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IAS General Studies

**Mains Examination Previous Year Questions
Papers (2002 - 2011)**



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2002 GENERAL STUDY MAIN

Paper - I

1. Answer any one of the following (about 250 words): **30**
 - (a) What was the Butler Committee Report? Discuss the reactions on the Report in India.
 - (b) Why did Jinnah reject the C. R. Formula?
2. Answer any two of the following (about 150 words each): **2 × 15 = 30**
 - (a) Trace the growth of the Indian Home Rule Movement in Britain.
 - (b) Evaluate the attitudes of different political parties towards Quit India Movement.
 - (c) Review the 'Dickie Bird Plan'.
3. Write about the following (not exceeding 20 words each): **15 × 2 = 30**
 - (i) Anandmath
 - (ii) Bismillah Khan
 - (iii) Christ Evert
 - (iv) Chamber of Princes
 - (v) Dharma Sabha
 - (vi) Divide et impera
 - (vii) Dandi March
 - (viii) Garry Kasparov
 - (ix) Keshab Chandra Sen
 - (x) Nivedita
 - (xi) Pele
 - (xii) Raidasa
 - (xiii) Satyagraha
 - (xiv) Steffi Graf
 - (xv) Theodore Beck
4. Answer any two of the following (about 125 words each): **2 × 10 = 20**
 - (a) Give an account of the tea plantations of Assam and West Bengal and state the economic significance of these plantations.
 - (b) Discuss the distribution of winds and rainfall over India in the summer monsoon season.
- (c) Define the concept of 'growth centres' and evaluate its relevance in regional planning in India.
5. Write short notes on the following (about 20 words each): **5 × 2 = 10**
 - (i) Name of main petroleum producing areas in India
 - (ii) Jhum cultivation - process and consequences
 - (iii) Kaziranga National Park
 - (iv) Census definition of urban places
 - (v) Khetri Copper Project
6. Answer any one of the following (about 250 words): **30**
 - (a) "The issue of a hung Parliament adversely affects the stability of Indian Government." Discuss the statement and point out how far changing over to the Presidential form of government will be a solution to this problem.
 - (b) Why does the Constitution of India provide different forms of Oaths for the President, the Ministers, the legislators and the members of the judiciary? Discuss their significance.
7. Answer any one of the following (about 250 words): **30**
 - (a) What is the position of the Supreme Court under the Constitution of India? How far does it play its role as the guardian of the Constitution?
 - (b) How is the Constitution of India amended? Do you think that the procedure for amendment makes the Constitution a-anything in the hands of the Centre?
8. Answer any two of the following (about 150 words each): **2 × 15 = 30**
 - (a) Discuss the constitutional provisions relating to the non-justiciable directives binding upon the states.

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- (b) Describe the methods of delimiting constituencies for parliamentary elections in India.
- (c) Explain the role of the Public Accounts Committee.
- 9. Answer the following (about 20 words each):**
5 × 2 = 10
- (i) What is the importance of the 84th Amendment of the Indian Constitution?
- (ii) Under what Article of the Constitution can the Union Government play its role in settling inter-state water disputes?
- (iii) What is the role of the protem speaker?
- (iv) What is meant by the 'lame-duck session' of the legislature?
- (v) What is meant by the 'fringe areas' in the sphere of local government in India?
- 10. Write on any one of the following (about 250 words):**
30
- (a) What is the composition of the Electoral College for the election of the President of the Indian Republic? How is the value of votes cast counted?
- (b) "Biotechnology boom may pave a golden path for India." Discuss.
- 11. Write on any two of the following (about 125 words each):**
2 × 10 = 20
- (a) What were the main strategic concerns of the Indonesian President Megawati Sukarnoputri during her recent visit to India?
- (b) What is 'TRIFED'? What are its objectives?
- (c) How has the dwindling of barbed variety of rice affected the Siliguri - Bagdogra belt with respect to man-animal conflict?
- 12. Write notes on any two of the following (about 125 words each):**
2 × 10 = 20
- (a) What is Integrated Wastelands Development Programme?
- (b) Write briefly about Desert Development Programme.
- (c) Write briefly about the Programmes for 'Welfare of the Disabled'.
- 13. Write about the following (about 20 words each):**
5 × 2 = 10
- (i) Prof. B. P Sinha
- (ii) Maj. Gen. S. S. Sharma
- (iii) Kondapalli Seetaramaiah
- (iv) Aung San Suu Kyi
- (v) Thalassery, Kerala
-
- Paper - II - 2002**
-
- 1. Answer any TWO of the following (Answer to each question should be in about 150 words):**
15 × 2 = 30
- (a) Discuss the major irritants in Indo-China relations and highlight the latest moves to overcome these.
- (b) How did U.S. respond to the problem of Cross-border terrorism in the State of Jammu and Kashmir after the Kaluchak events?
- (c) Account for India's opposition to Comprehensive Test Ban treaty.
- 2. Answer the following (Answer to each question should be in about 20 words):**
2 × 5 = 10
- (a) Explain India's stand on LTTE
- (b) What does 'Gujral doctrine' stand for?
- (c) How does India benefit from good neighbourly relations with Bangladesh?
- (d) What do you know about 'Pinaka'?
- (e) Explain India's 'No First Use' policy in context of Nuclear Weapons.
- 3. Answer the following (Answer to each question should be in about 20 words):**
2 × 5 = 10
- (a) What are the problems NRIs have to face if they decide to settle in India?
- (b) What was India Millennium Deposit Scheme?
- (c) What has been the impact of Gulf remittances on India's economy?
- (d) Name the nodal agency to deal with issues relating to Indians abroad and explain its main task.
- (e) What is distinction between 'Non Resident Indian' and 'People of India origin'?
- 4. Answer any ONE of the following (Answer should be in about 250 words)**
- (a) Outline the main targets fixed in the National Population Policy 2000. What have been the follow up measures to this policy? **30**
- (b) The main thrust of Export-Import Policy 2002 - 07 is on creating a framework for enhancing India's export capability. In the light of this statement outline the salient features of EXIM Policy 2002-07. **30**

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5. Answer any TWO of the following (Answer to each question should be in about 150 words):
15 × 2 = 30
- What are 'Minimum Support Prices' in agricultural products? What are their objectives?
 - Outline the main objectives and achievements of the policy of disinvestment in India.
 - With what objectives was 'Essential Commodities Act 1955' amended last year?
6. Answer the following (Answer to each question should be in about 20 words): **2 × 15 = 30**
- What is peak rate of Custom duty? What are its objectives in India?
 - Define fiscal deficit.
 - Explain the provision of OGL.
 - Elucidate 'Special Economic Zones'.
 - Highlight salient feature of 'National Highway Development Project'.
 - What is the role of SEBI?
 - Explain RBI's 'Automatic route' in FDI's.
 - With what objectives was 'Annapurna' Scheme launched?
 - Elucidate 'Sampoorna Gramin Rozgar Yojna'.
 - The Union Budget 2002-03 recommended some services to be taxed. Name any 4 of these services.
 - What is 'dumping'? What is its objective?
 - What do you understand by 'Capital Account Convertibility' of Rupee?
 - Define Sex ratio in the population of India. What is its present status?
 - Distinguish between ad-valorem and specific duties.
 - Define zero-based budget.
7. Answer any TWO of the following (Answer to each question should be in about 150 words):
15 × 2 = 30
- Highlight the main points of Nuclear Disarmament Treaty signed by U.S. President George Bush and Russian President Vladimir Putin in May 2002.
 - Outline the features of latest Saudi Peace Plan for West Asia Crisis and assess its importance.
 - "NAM (Non-Aligned Movement) is relevant in Unipolar World as well." Comment.
8. Answer the following (Answer to each question should be in about 20 words): **2 × 5 = 10**
- What do the following stand for?
 - WCAR
 - SPDC
 - INTERPOL
 - WIPO.
 - Why was Bander Seri Begawan in news recently?
 - Who is Xanana Gusmao?
 - What do you mean by Uni-Polar World?
 - What do you know about North-South dialogue?
9. Answer the following (Answer to each question should be in about 20 words): **2 × 5 = 10**
- What do the following stand for?
 - UNCHR
 - UNIDO
 - WTO
 - MIGA.
 - What is meant by AU?
 - Explain U.S. stand on the proposal for establishing an International Crime Court.
 - What is the main purpose of G-15?
 - Why is SAFTA being mooted?
10. Answer any ONE of the following (Answer should be in about 250 words)
- Plastic hazards- Discuss. **30**
 - Discuss in detail "The Internet Telephony as an alternative". **30**
11. Answer any TWO of the following (Answer to each question should be in about 150 words):
15 × 2 = 30
- What are the fundamental constants and their use in the measurement system?
 - Discuss about 'Environment', its components and its awareness.
 - What is Human Cloning? Is it dangerous or beneficial? Discuss.
12. Answer the following (Answer to each question should be in about 20 words): **2 × 5 = 10**
- What is a digital camera?
 - What is firewall in Computer Language?
 - What is multimedia?
 - What do the following stand for?
 - HTML
 - FTP
 - MELOPS
 - PLANIT.
 - What is Piracy?

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13. Answer the following :-

- (a) The figures below give the revenue expenditure in U.P. on education in crore of rupees for the last three years

Particulars	Expenditure (Crore Rs.)		
	1998-1999	1999-2000	2000-2001
Primary Education	68.00	78.00	118.00
Secondary Education	40.00	45.00	74.00
Special Education	30.00	35.00	45.00
University and Higher Education	50.00	52.00	56.00
Technical Education	35.00	38.00	42.00
Sports and Youth Welfare	20.00	22.00	30.00

Represent the above information by suitable diagram. **8**

- (b) Represent the following data by frequency polygon:

Weekly Wages (Rs.)	No. of Workers
0-10	10
10-20	15
20-40	18
40-70	60
70-100	45
100-120	40
120-150	30

14. Answer the following :

- (a) The life of two models A and B of refrigerators in a recent survey is tabulated as follows:

Life (No. of years)	Model A	Model B
0-2	5	2
2-4	16	7
4-6	13	12
6-8	7	19
8-10	5	9
10-12	4	1

- (i) What is the average life of each model of these refrigerators ?
 (ii) Which model shows more uniformity? **2 + 6 = 8**

- (b) The following table shows the distribution of 100 families according to their expenditure per week. Number of families corresponding to the expenditure groups Rs. (10-20) and Rs. (30-40) are missing from the table. The median and mode for the

distribution are Rs. 25.00 and Rs. 24.00 respectively. Calculate the missing frequencies:

Expenditure (Rs.)	No. of families
0-10	14
10-20	—
20-30	27
30-40	—
40-50	15

15. Answer the following : **2 × 4 = 8**

- (a) The average rainfall of a certain place for Monday to Saturday is 15 inches. Due to heavy rainfall on Sunday, the average rainfall of the week rose to 25 inches. How much rainfall was there on Sunday?
 (b) The following are the information pertaining to employees of a factory

Total number of employees	100
Average salary of all employees	Rs. 5000.00
Average salary of male employees	Rs. 5200.00
Average salary of female employees	Rs. 4200.00

What is the number of male and female employees?

- (c) If each value in a sample of size 15 is multiplied by 10, then whether the mean will be changed, justify your answer. What will happen to the mean if 12 is subtracted from each value ?
 (d) A person owns two Companies A and B. He invested Rs. 10 lakh to establish Company A and Rs. 10 crore to establish Company B. The average profits earned from both the companies are the same. Which of the two companies is better from profit earning point of view ? Justify your answer.

ESSAY (Compulsory) - 2002

Write an essay on any one of the following subjects

- Modern Technological Education and human values.
- Search for Truth can only be a spiritual problem.
- If youth knew, if age could.
- The paths of glory lead but to the grave.
- Privatisation of Higher Education in India.
- Responsibility of media in a democracy.

2003

GENERAL STUDIES MAIN

Paper - I

1. Answer any ONE of the following (about 250 words) : **30**
 - (a) "The reforms of 1909 introduced a cardinal problem and ground of controversy at every revision of the Indian electoral system." Comment.
 - (b) Discuss the problems that impeded the integration of the princely states into the Indian Union. How were these problems tackled ?
2. Answer any TWO of the following (about 150 words): **2 × 15 = 30**
 - (a) 'The mainstay of Mahatma Gandhi's movements was the rural India: Elucidate.
 - (b) Discuss the character of major tribal uprisings in British India in the nineteenth Century.
 - (c) Bring out the ideological basis of the Moderate – Extremist divide in the Indian National Congress.
3. Write about the following (not exceeding 20 words each): **15 × 2 = 30**
 - (i) Arthasastra
 - (ii) Saranath Pillar
 - (iii) The Jatiya Sarkar of Tamluk
 - (iv) Punnapra-Vayalar
 - (v) Sajjad Zahir
 - (vi) Al-Hilal
 - (vii) Har Dayal
 - (viii) Khudai Khidmatgar
 - (ix) Mahayana Cult
 - (x) W. W. Hunter
 - (xi) Indu Lal Yajnik
 - (xii) Achhut Patwardhan
 - (xiii) Sir William Jones
 - (xiv) James Wilson
 - (xv) Ghulam-gri.
4. Answer any TWO of the following (about 125 words each): **2 × 10 = 20**
 - (a) Describe the major characteristics of the rivers of Peninsular India.
 - (b) Account for the very high concentration of salt extraction industries in the Saurashtra and South Tamilnadu Coast.
 - (c) State the four distinctive stages of Indian Demographic history.
5. Write short notes on the following (about 20 words each): **5 × 2 = 10**
 - (i) Define Terai Region.
 - (ii) Mention the area of Shola forests in India.
 - (iii) Who are Todas and where do they live ?
 - (iv) Name any four principal languages of Andaman and Nicobar Islands.
 - (v) What is MRTS ? Where it is in operation?
6. Answer any ONE of the following (about 250 words) : **30**
 - (a) Discuss the question of death sentence and Presidential clemency.
 - (b) Explain the discretionary powers of the Governor of a State.
7. Answer any ONE of the following (about 250 words): **30**
 - (a) Discuss Parliamentary Control over the Executive.
 - (b) Identify the major obstacles in the smooth functioning of Parliamentary democracy in India.
8. Answer any TWO of the following (about 150 words each): **2 × 15 = 30**
 - (a) Highlight the significance of Forty Fourth Amendment to the Constitution of India.
 - (b) Identify the major-Fundamental Duties.
 - (c) Explain the relevance of Rajya Sabha as a second chamber in the federal set up of Indian Parliamentary System.

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9. Answer the following (about 20 words each):
5 × 2 = 10
- What is a point of order? When can it be raised?
 - What is a Privilege Motion?
 - State the difference between Council of Ministers and the Cabinet.
 - How is the Vice President of India elected?
 - What is meant by 'Sine-die' adjournment?
10. Write on any ONE of the following (about 250 words):
30
- Discuss the steps taken by Government to check child labour and promote child welfare.
 - Suggest measures for the eradication of wide spread corruption in Public Life India.
11. Write on any TWO of the following (about 125 words each):
2 × 10 = 20
- The issue of gender equality in India.
 - Natural Heritage and Cultural Heritage.
 - Identify the types of disabilities.
12. Write notes on any TWO of the following (about 125 words each):
2 × 10 = 20
- What are the distinctive features of the Lokpal Bill introduced in the Parliament this year?
 - What is the Prime Minister's Five-point agenda for India's development as a Knowledge Society?
 - What are the preconditions for the growth of Civil Society? Is Indian democracy conducive to it?
13. Write about the following (about 20 words each):
5 × 2 = 10
- Anthrax
 - Radiation & its effects
 - The Statue of Liberty
 - George Walker Bush
 - Genome.
- (c) Discuss the recent trends in India's relations with China.
2. Answer the following (in about 20 words each):
2 × 5 = 10
- Discuss the importance of the Agra Summit on Indo-Pakistan relations.
 - What has been the nature of "Track II diplomacy" between India and Pakistan?
 - Discuss the major irritants to Indo-Bangladesh relations.
 - Discuss India's policy towards international terrorism.
 - In what sense is Indo-Nepal cooperation important for both countries' national security?
3. Answer the following (in about 20 words each):
2 × 5 = 10
- Under what conditions are NRIs permitted to remit deposits in India in any currency of their choice?
 - How can NRIs be attracted to invest in India?
 - What is the significance of the Pravasi Bhartiya Divas in modern India?
 - In what ways did Idi Amin make life difficult for the people of Indian origin in his country? (e) What is "Brain drain"?
4. Answer any one of the following (in about 250 words):
30
- Write a note on the strategy of planning in India since 1951.
 - What were the major recommendations of the Task Force on direct taxes appointed under the Chairmanship of Shri Vijay L. Kelkar?
5. Answer any two of the following (in about 150 words each):
15 × 2 = 30
- Outline the important objectives of the Tenth Five Year Plan.
 - What is a Finance Commission?
 - Point out the measures undertaken towards flexibility in capital account transactions during the recent past.
6. Answer the following (in about 20 words each):
2 × 15 = 30
- What is Plan Holiday?
 - Why did India have a surplus in current account balance in 2001-02 after a gap of 24 years?

Paper-II

1. Answer any two of the following (in about 150 words each):
15 × 2 = 30
- Discuss the major issues in Indo-US relations in recent times.
 - Discuss the impact of the collapse of the Soviet Union on Indo-Russian relations.
- (a) What is Plan Holiday?
- (b) Why did India have a surplus in current account balance in 2001-02 after a gap of 24 years?

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- (c) What is Value Added Tax?
(d) What is the main objective of the Competition Act, 2002?
(e) Name the two agencies that have helped to promote Foreign Direct Investment (FDI) in India.
(f) What is the main thrust of the Fiscal Responsibility and Budget Management Bill?
(g) Highlight the main feature of the policy relating to buy-back of shares.
(h) Why was Janashree Bima Yojana introduced?
(i) When was the idea of Agriculture Insurance Corporation mooted?
(j) What is the policy of the Government with respect to child labour?
(k) Explain the objectives of the National Health Policy, 2002.
(l) What was the main objective of the 'Operation Blackboard' scheme?
(m) Explain the essential feature of differential rate of interest scheme.
(n) Which are the three major items of expenditure of the Government of India on revenue account?
(o) What was the essential feature of the Pradhan Mantri Gram Sadak Yojana?
- 7.** Answer any two of the following (in about 150 words each): **15 × 2 = 30**
(a) What is the 'Veto' in the UN-system?
(b) Discuss the role of the NATO after the end of the Cold War.
(c) Discuss the role of the United Nations in the protection and promotion of Human Rights.
- 8.** Answer the following (in about 20 words each): **2 × 5 = 10**
(a) What do the following stand for
(i) IBRD,
(ii) UNHCR
(b) Who is Hans Blix?
(c) Why was David Kelly in the news recently?
(d) What is the problem in Chechnya?
(e) What is the significance of the Robin Island?
- 9.** Answer the following (in about 20 words each): **2 × 5 = 10**
(a) What is the significance of Enola Gay in world history?
- (b) Why is Guantanamo Bay in the news now?
(c) What is the theory of "clash of civilisations"?
(d) What does the theory of "end of history" mean?
(e) Why was Robert Mugabe in the news recently?
- 10.** Answer any one of the following (in about 250 words): **30**
(a) What do you understand by depletion of ozone layer and why is it considered harmful? Name ozone depleting substances and processes. What international ramifications took place to protect the ozone layer and what was the target agreed upon?
(b) What is interactive television? What special advantages are derived by using VOD services? What are the components of a typical VOD system? Which feature film was generated first entirely on computers and in which year?
- 11.** Answer any two of the following (in about 150 words each): **15 × 2 = 30**
(a) What does the solar system consist of? Discuss the motion of the entire solar system as a whole and also the motion of most of the bodies forming the solar system.
(b) In which year and by which countries was International Space Station (ISS) launched? How many countries are participating in this program? What are the unique studies being made in the station which could not be made so accurately on the earth?
(c) Discuss the elements of 'frozen semen technology'. What are 'embryo transfers', 'transgenic animals', 'DNA recombinant technique'?
- 12.** Answer the following (in about 20 words each): **2 × 5 = 10**
(a) What is 'Sympathetic Haptics'?
(b) What are special features of 'Linux'?
(c) What is an operating system? List the basic services provided by an operating system.
(d) What is an 'Internet Worm'? Explain DDoS.
(e) What do the following stand for?
(i) POSIX (ii) EPROM
(iii) MODEM (iv) COBOL
- 13.** (a) In the year 2001 there were 18000 workers in a certain factory, of which 13000 were

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members of a trade union, 12% of workers were women and 60% of them were members of the trade union. In the year 2002 the number of workers increased by 6% of which 480 were women. At the same time the trade union membership of women fell by 304 while the total membership increased by 10%. In the non-members category, the ratio of men and women was 4 : 1 in this year. Tabulate this information and supply the missing figures. **8**

- (b) The following table gives the frequency distribution of height for 180 adults males

Height (in cm)	Frequency
144.5 - 149.5	3
149.5 - 154.5	5
154.5 - 159.5	24
159.5 - 164.5	54
164.5 - 169.5	60
169.5 - 174.5	27
174.5 - 179.5	4
179.5 - 184.5	3

Draw the two ogives ("less than" and "greater than" type cumulative frequency curves). Find the point of their intersection and comment on its significance. **8**

14. (a) The mean and variance of a set of 60 observations are 10 and 4 respectively while for a subset of 40 observations these measures are 11 and 2.25 respectively. Find the mean and variance of the other subset. **8**

- (b) The three outcomes of an experiment; w_1 , w_2 and w_3 are such that w_1 is twice as likely to occur as w_2 which is twice as likely to occur as w_3 . Find the probability of occurrence of each of the three outcomes. **8**

15. (a) What are the problems that a statistician encounters in the process of construction of index number? **2**
- (b) Suppose that the regression line of two random variables y and x is given by $y = 26.38 - 1.35x$ and that of x and y is given by $x = 16.38 - 0.45y$. Find the square of the coefficient of correlation between x and y . **2**
- (c) If the correlation coefficient between two random variables is zero, are the random variables independent? **2**
- (d) In a certain factory, a unit of work is completed by A in 10 minutes, by B in 20 minutes. What is the average number of units of work completed per minute? **2**

ESSAY (Compulsory) - 2003

Write an essay on any one of the following subjects

1. The Masks of New Imperialism.
2. How far has democracy in India delivered the goods?
3. How should a civil servant conduct himself?
4. As civilization advances culture declines.
5. There is nothing either good or bad but thinking makes it so
6. Spirituality and Scientific temper.

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2004 GENERAL STUDIES MAIN

Paper - I

1. Answer any one of the following (in about 250 words): **30**
 - (a) Discuss the major regulations enacted by the British rulers to curb the freedom of Press in India.
 - (b) Form a critical assessment of the Non-Cooperation Movement.
2. Answer any two of the following (in about 150 words each): **2 × 15 = 30**
 - (a) What led to the partition of Bengal in 1905?
 - (b) Write a note on the Theosophical Society.
 - (c) Discuss the main findings of the Hartog Committee (1929).
3. Write about the following (not exceeding 20 words each): **15 × 2 = 30**
 - (i) Upanishads
 - (ii) Vajrayana
 - (iii) Kumarsambhav
 - (iv) Razmnama
 - (v) Mirza Haidar
 - (vi) Muhammad Barkatullah
 - (vii) Sohan Singh Bhakna
 - (viii) Alluri Sitaramaraju
 - (ix) Canjeevaram Natrajan Annadurai
 - (x) Jadong
 - (xi) Jadunath Sarkar
 - (xii) Nazir Hasan
 - (xiii) Subhash Gupte
 - (xiv) Acharya Nirmalya
 - (xv) Jyotirao Phule
4. Answer any two of the following (in about 125 words each): **2 × 10 = 20**
 - (a) Examine the distribution of oil refineries in India.
 - (b) Why are the Aravallis called a divide between Mewar and Marwar?
 - (c) What is Golden Quadrilateral? How will it help in the economic development of the country?
5. Write short notes on the following (in about 20 words each): **5 × 2 = 10**
 - (a) El Nino, La Nina and monsoon rains
 - (b) The Sambhar lake
 - (c) The Sundarbans
 - (d) Bombay High
 - (e) Sabarkantha & Banaskantha
6. Answer any one of the following (in about 250 words): **30**
 - (a) What is the significance of a preamble to a constitution? Bring out the philosophy of the Indian polity as enshrined in the Preamble of the Indian Constitution.
 - (b) Discuss the meaning of "breakdown of constitutional machinery". What are its effects.
7. Answer any one of the following (in about 250 words): **30**
 - (a) Discuss how the Constitution of India provides equal rights.
 - (b) How does the Indian Constitution seek to maintain independence of the Public Service Commission?
8. Answer any two of the following (in about 150 words each): **2 × 15 = 30**
 - (a) Define Money-bill. Discuss how it is passed in the Parliament.
 - (b) What is a Finance Commission? Discuss the main functions of the State Finance Commission.
 - (c) Discuss how state governments can exercise control over panchayats.
9. Answer the following (in about 20 words each): **5 × 2 = 10**
 - (a) What is Habeas Corpus?
 - (b) What are the constitutional restrictions imposed upon the power of borrowing of the state governments?

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- (c) What is the special facility provided to the linguistic minorities under Article 350 A ?
- (d) How can a judge of the Supreme Court be removed?
- (e) How is the Election Commission of India constituted?
- 10.** Write on any one of the following (in about 250 words): **30**
- (a) The Inter-State river water dispute has once again assumed centre-stage after the Punjab Assembly's Bill terminating all previous accords on river waters. Discuss.
- (b) What is PURA ? Discuss its major objectives.
- 11.** Write on any two of the following (in about 125 words each): **2 × 10 = 20**
- (a) Explain UNDP Report on human development in India.
- (b) What is WTO ? What are India's objections to its overall functioning ?
- (c) Discuss the utility of e-governance in the Indian context.
- 12.** Write notes on any two of the following (in about 125 words each) : **2 × 10 = 20**
- (a) Housing for all by 2010 is the goal set by the National Habitat Policy. How far is it achievable ?
- (b) "Is greater spending on education linked to higher literacy ?" Discuss.
- (c) What is Enterprise Resource Planning
- 13.** Write about the following (in about 20 words each): **5 × 2 = 10**
- (a) ISRO
- (b) Central Vigilance Commission
- (c) NDDDB
- (d) Hiren Mukherjee
- (e) Pareechu Lake

Paper - II - 2004

- 1.** Answer any TWO of the following (Answer to each question should be in about 150 words) : **15 × 2 = 30**
- (a) Discuss the role played by the United States in promoting/hindering improved relations between India and Pakistan.
- (b) Explain India's strategic relationship with Russia.
- (c) Account for India's increasing involvement in the South-East Asian region.
- 2.** Answer the following (Answer to each question should be in about 20 words) : **2 × 5 = 10**
- (a) The Panchsheel Pact.
- (b) India-Israel Cooperation.
- (c) European Union's trade restrictions against India.
- (d) Weak-spots in India-Nepal relations.
- (e) Hot Line between Islamabad and New Delhi.
- 3.** Answer the following (Answer to each question should be in about 20 words) : **2 × 5 = 10**
- (a) Categorize the People of Indian Origin (PIO).
- (b) Point out the difference between the Jewish Diaspora and the Indian Diaspora.
- (c) What are the references made to the NRI in the Union Budget July 2004 ?
- (d) What is known as reverse migration ?
- (e) Why was January 9 chosen to observe the NRI (Pravasi Bharatiya Diwas) Day?
- 4.** Answer any ONE of the following (in about 250 words): **30**
- (a) State the comprehensive structural reforms undertaken to improve the Indian economy since 1991.
- (b) How is poverty level measured ? Evaluate poverty eradication programmes in India.
- 5.** Answer any TWO of the following (in about 150 words each): **15 × 2 = 30**
- (a) Describe the recommendations of Narasimham Committee regarding the banking sector in India.
- (b) Examine the effect of economic development on environmental degradation in India.
- (c) What ails India's road transport economy ? Suggest measures of remedy.
- 6.** Answer the following (in about 20 words each): **2 × 15 = 30**
- (a) What are the major provisions of Agreements on Agriculture in the context of World Trade Organisation?
- (b) Elucidate Special Drawing Rights.
- (c) What is Cash Reserve Ratio ?
- (d) What does "priority sector lending" mean?
- (e) What is Minimum Alternative Tax (MAT)?
- (f) What is Business Process Outsourcing (BPO)?
- (g) What is 'social justice' in the context of Indian economy ?

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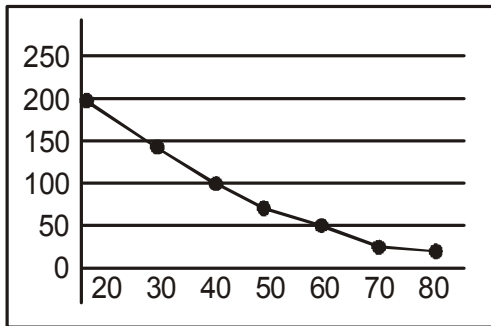
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- (h) Explain the objectives of Plant Varieties Right Act, 2002.
- (i) How is human development index for life expectancy measured?
- (j) What are the objectives of the Twelfth Finance Commission?
- (k) Explain the necessity and role of controls in a mixed economy like India.
- (l) Distinguish between primary sector, secondary sector and tertiary sector. What is the change in the share of each sector in Gross Domestic Product (GDP) during period of 1950-2000?
- (m) What is the main objective of Security and Exchange Board of India (SEBI)?
- (n) What has been the policy of agricultural development during last two decades in India?
- (o) What is deficit financing?
- 7.** Answer any TWO of the following (Answer to each question should be in about 150 words):
15 × 2 = 30
- (a) Discuss the role of 'intelligence' in the making of foreign policy.
- (b) Describe the role of the Amnesty International in securing human rights.
- (c) Examine the relevance of Pt. Jawaharlal Nehru's ideas in the international relations of today.
- 8.** Answer the following (Answer to each question should be in about 20 words): **2 × 5 = 10**
- (a) ICJ verdict on Israel's erection of barrier on the West Bank.
- (b) Beijing Taiwan Spat.
- (c) Prospects of international water-wars.
- (d) Al Gharib Prisoners.
- (e) Recent developments in India-Myanmar relations.
- 9.** Answer the following, by expanding and explaining the objectives (Answer to each question should be in about 20 words):
2 × 5 = 10
- (a) BIMSTEC (b) ARF
- (c) Red Cross
- (d) OPEC
- (e) IAEA
- 10.** Answer any ONE of the following (Answer should be in about 250 words):
- (a) Discuss in detail "Alternative Energy Sources": **30**
- (b) "Global Warming"- Discuss. **30**
- 11.** Answer any TWO of the following (Answer to each question should be in about 150 words):
15 × 2 = 30
- (a) What is Super-conductivity? Give its uses and applications.
- (b) What is Biotechnology? Discuss the important applications of Biotechnology.
- (c) Describe the importance of "Laser" in war and peace.
- 12.** Answer the following (in about 20 words each):
2 × 5 = 10
- (a) What do you understand by E-governance?
- (b) What is a URL?
- (c) What do the following stand for?
 (i) CD-ROM (ii) USB
 (iii) ITES
 (iv) FORTRAN
- (d) What do you understand by MP3?
- (e) What are cyber crimes? How are these protected?
- 13.** (a) The table below shows the average monthly house hold expenditure on different items for the years 2001 to 2004:
- | Item | Average monthly expenditure in Rs. | | | |
|----------------------|------------------------------------|-------|-------|-------|
| Rs. | 2001 | 2002 | 2003 | 2004 |
| Food | 4,500 | 4,800 | 5,400 | 5,700 |
| Rent | 1,800 | 1,800 | 2,200 | 2,300 |
| Children's education | 650 | 800 | 1,000 | 1,200 |
| Others | 2,400 | 2,600 | 3,000 | 3,400 |
- Represent the above information by suitable diagram. **8**
- (b) According to the Union Budget 2004-05, the total receipts of Rs. 4,77,829 crore can be approximately broken up as follows
- A. Direct Taxes 25%
- B. Indirect and other Taxes 32%
- C. Non-tax Revenue Receipts 13%
- D. Non-debt Capital Receipts 6%
- E. Borrowings and other liabilities 24%
- Represent the above by a Pie-diagram. **8**
- 14.** (a) Read the given data and answer the questions that follow:

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- (i) At what speed (kmph) is the engine considered to have its normal length of life?
- (ii) The life of an engine driven at 20 kmph is how many times more than the life of an engine driven at 40 km per hour ?
- (iii) If an engine, usually driven at speed of 60 km per hour, had a lifespan of 30,000 kilometres, what will be the lifespan of an engine which is usually driven at a speed of 40 km per hour?
- (iv) Given that the normal lifespan of an engine is 60,000 km, what was the lifespan of an engine, which was driven for 20,000 kilometres at a speed of 60 km per hour and later at a speed of 40 km per hour?
- (v) Running an engine between 60 kilometres per hour and 40 km per hour, the lifespan increases by what percent ?
- (vi) At what speed (kmph) would the engine have the maximum life? **8**
- (b) The Human Development Index (HDI) is a simple average of three indexes
 (A) Life Expectancy Index (to reflect health)
 (B) Education Index (to reflect knowledge)
 (C) GDP/SDP Index (to reflect standard of living)
- The Education Index (B) is a combined index of two indexes :
- (i) adult literacy rate with 2/3 weight and
 (ii) combined gross enrolment rate with 1/3 weight.
- Compute the HDI for INDIA and KERALA from the following data:

	INDIA	KERALA
(A) Life Expectancy Index	57.2	78.0
(B) Education Index		
(i) Adult Literacy Rate	48.7	86.0
(ii) Combined Gross enrolment rate	59.1	100.6
(C) GDP/SDP Index	19.0	19.5
[Note : SDP is State Domestic Product]		8

- 15.** Attempt all the questions. All questions carry equal marks: **4 × 2 = 8**
 (a) Consider the following data

Weekly Wages in an Office (Rs.)	
Position in the Office	Weekly Wages
Senior Consultant	700
	600
	550
Junior Consultant	180
	180
	160
Clerical Helpers	160
	100
	100
	100

- Which of the three averages — arithmetic mean, median and mode, adequately represents the data ?
- (b) In a moderately skewed distribution the following values were obtained
 Arithmetic mean = 24.6
 Mode = 26.1
 Find the value of the median and explain the reason for the method employed.
- (c) Suppose an item is sold at the rates of 18, 20, 22 and 25 rupees per litre in four different months. Assuming that equal amounts of money are spent on the particular item by a customer in the four months, find the average price in rupees per litre of the item.
- (d) The average of 11 observations is 50. The mean of the first six observations is 49 and that of the last six observations is 52. Find the value of the sixth observation.

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ESSAY (Compulsory) - 2004

Write an essay on any one of the following subjects

1. India's Role in Promoting ASEAN Co-operation.
2. Judicial Activism and Indian Democracy.
3. Whither Women's Emancipation ?
4. Globalisation and Its Impact on Indian Culture.
5. The Lure of Space.
6. Water Resources Should Be Under the Control of the Central Government.

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2004 GENERAL STUDIES MAIN

Paper - I

1. Answer any one of the following questions (in about 250 words) : **30**
 - (a) What in your opinion were the positive steps taken by the British to modernise India ?
 - (b) Examine the policy of Subordinate Union towards Princely States. Account for the shift from the policy of Subordinate Isolation.
2. Answer any two of the following questions (in about 150 words each) : **15 × 2 = 30**
 - (a) "In the Montagu-Chelmsford Report communal representation and reservations were not only retained but considerably extended." Comment.
 - (b) Evaluate Subhas Chandra Bose's contribution to India's freedom.
 - (c) Why and how did the Congress come to accept the partition of the country ?
3. Write about the following (not exceeding 20 words each) : **2 × 15 = 30**
 - (a) Yajnavalkya Smriti
 - (b) Sutta Pitaka
 - (c) Bhagawati Sutra
 - (d) Gangaikonda-Cholapuram
 - (e) Nizamuddin Auliya
 - (f) Raidas
 - (g) Calcutta Madrasa
 - (h) Jagat Seth
 - (i) Bhawani Mandir
 - (j) Baba Ram Chandra
 - (k) Pandita Ramabai
 - (l) Sir Thomas Roe
 - (m) Moplah Rebellion
 - (n) Tavernier
 - (o) Darul-Uloom
4. Answer any two of the following (in about 125 words each): **10 × 2 = 20**
 - (a) What are the resource bases available for the economic development of the newly created States of Jharkhand and Uttaranchal?
 - (b) Elucidate the factors contributing to the growing need for water harvesting in India, both rural and urban.
 - (c) "Political boundaries and regional boundaries need to be co-terminus." Do you agree ?
5. Write notes on the following (in about 20 words each): **2 × 5 = 10**
 - (a) Regurs
 - (b) Karewas
 - (c) Negative impacts of shifting cultivation
 - (d) Causes of droughts in India
 - (e) Significance of Lake Chilka
6. Answer any one of the following (in about 250 words each) : **30**
 - (a) Comment on the financial relations between the Union, and the States in India. Has post-1991 liberalization in any way affected it ?
 - (b) Is it possible to distinguish between judicial review and judicial activism in India ? Does the recent behaviour of the Indian judiciary partake more of judicial activism ? Argue with suitable examples.
7. Answer any one of the following (in about 250 words) : **30**
 - (a) Would you say that the implementation of the Panchayati System in the last ten years has led to a real restructuring of the Indian polity ?
 - (b) Give your views on the right to freedom of religion as enshrined in the Indian Constitution. Do they make India a secular State ?
8. Answer any two of the following (in about 150 words each): **15 × 2 = 30**

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- (a) What are the constitutional limitations on the free movements of Indians throughout the country ?
- (b) How has the Indian State tackled the trade-off between environment and development ?
- (c) What are the steps that the Election Commission may take if a recalcitrant State Government wants to put off Assembly Elections ?
- 9.** Answer the following questions (in about 20 words each): **2 × 5 = 10**
- (a) What is meant by double jeopardy ?
- (b) What are the protections afforded to Scheduled Tribes in the Fifth Schedule of the Indian Constitution ?
- (c) In what ways can the President of India ascertain the views of the Supreme Court on a particular bill ?
- (d) What is the common point between Articles 14 and 226 of the Indian Constitution ?
- (e) Who and what does the Indian Parliament consist of ?
- 10.** Answer any one of the following questions (in about 250 words): **30**
- (a) Discuss the impact of globalization on higher education in India.
- (b) What is disaster management? Discuss the steps required to tackle natural disasters.
- 11.** Answer any two of the following questions (in about 125 words each) : **10 × 2 = 20**
- (a) Explain the implications of the recent Supreme Court verdict on reservations in private and minority educational institutions.
- (b) What is the energy independence ? Discuss how India can be transformed into an 'Energy-independent Nation:
- (c) What is eco-tourism ? How could it be promoted in India ?
- 12.** Write notes on any two of the following (in about 125 words each) : **10 × 2 = 20**
- (a) Sethusamudram Project
- (b) Causes of soil erosion and its control in India
- (c) Use of Information Technology in health management in India
- 13.** Write short notes on the following (in about 20 words each): **2 × 5 = 10**

- (a) Equal rights for women in parental property
- (b) National knowledge Commission
- (c) Genetically modified seeds
- (d) Ban on bar dancing
- (e) Rehabilitation of street children in India

Paper- II-2005

- 1.** Answer any two of the following (answer to each question should be in about 150 words):
2 × 15 = 30
- (a) Present a complete picture of India's efforts for a permanent seat in the UN Security Council.
- (b) Explain the political and economic implications of the Indo-Iran gas pipeline.
- (c) Examine the developments in Afghanistan in the post-Taliban period.
- 2.** Write about the following (answer to each question should be in about 20 words):
5 × 2 = 10
- (a) Indians in China
- (b) Cyber-terrorism
- (c) Military rule in Myanmar
- (d) Camp David Accord of 1978
- (e) Future of Indian expatriates in the Gulf
- 3.** Write about the following (answer to each question should be in about 20 words) :
5 × 2 = 10
- (a) Full convertibility
- (b) Physical Quality Life Index
- (c) Differences between absolute poverty and relative poverty
- (d) India - US nuclear pact
- (e) Medical tourism
- 4.** Answer any one of the following (in about 250 words): **30**
- (a) Discuss the causes and ramifications of hunger in Africa.
- (b) What are the reasons for industrial sickness in India? Suggest suitable remedies.
- 5.** Answer any two of the following (answer to each question should be in about 150 words):
2 × 15 = 30
- (a) What is the role of external financial assistance in Indian economy ?
- (b) Enumerate the objectives of Latin American Reserve Fund. Do you favour such a fund for Asian countries ?

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- (c) Examine the functions of the European Free Trade Association.
6. Answer or write about the following (in about 20 words each): **15 × 2 = 30**
- What is Mekong - Ganga Co-operation ?
 - What is IFC ?
 - Crude oil price and Indian economy
 - What is Gandhian economy ?
 - Second Green Revolution
 - Kasturba Gandhi Balika Vidyalaya Yojana
 - What is Euro-control ?
 - Dow Jones (i) 'Bluetooth'
 - MFN status to India by Pakistan
 - The notion of development of under-development
 - Cost-push inflation
 - What is Green GDP ?
 - What were the terms of reference of the Abid Hussain Committee ?
 - What is structural unemployment ?
7. Answer any two of the following (answer to each question should be in about 150 words): **2 × 15 = 30**
- Detail the salient features of project 'Anthareeksha.'
 - Will a grand axis of India, China and Russia challenge the unipolar supremacy of the US ? Elaborate your views.
 - Explain the China - US textile war.
8. Answer or write about the following (answer to each question should be in about 20 words): **5 × 2 = 10**
- What is Gender Empowerment Measure (GEM) ?
 - What is the concept of copyleft ?
 - What is -a rogue state ?
 - Repo market
 - What is banana war ?
9. Answer the following, by expanding or explaining (answer to each question should be in about 20 words) : **10**
- OAPEC (b) IFAD
 - UPU (d) SAVE
 - ODA
10. Answer any one of the following in about 250 words: **30**
- Describe the sources of ionizing and non-ionizing radiations and their effects on the biotic components of the atmosphere.
- (b) What is digital convergence? Examine its implications for modern society.
11. Answer any two of the following (answer to each question should be in about 150 words each): **2 × 15 = 30**
- Why do environmentalists regard asbestos and polythene as pollutants?
 - What is the therapeutic cloning? Describe briefly the method and its potential applications.
 - Why is hydrogen being acclaimed as the fuel of the future?
12. Answer the following (in about 20 words each): **5 × 2 = 10**
- What is an Exabyte?
 - What is VIRUS?
 - What do the following stand for?
 (i) XMPL (ii) MASER
 (iii) SECAM (iv) TIPS
 - What is avatar?
 - What is Wikipedia?
13. (a) Put the following information into a frequency distribution table, assuming the range of monthly wage is from Rs. 300 to Rs. 4500, and draw a histogram on a high paper:
 "10%, 30%, 60%, 80% and 90% of a group of monthly wage earners receive less than Rs. 600, Rs. 1000, Rs. 1800, Rs. 2800 and Rs. 3300 respectively and 5% receive Rs. 3600 and above."
- (b) The marks obtained by 32 students of 12th class of a Government school are:
 628, 665, 560, 328, 421, 525, 480, 470, 405, 424, 664, 668, 620, 300, 305, 520, 420, 370, 326, 440, 328, 480, 565, 650, 480, 360, 325, 450, 360, 426, 440, 306
 Form a Cumulative Frequency Table with class interval of 50.
14. (a) Represent the following data by a histogram:
- | Daily Earnings (Rs.) | No. of shares |
|----------------------|---------------|
| 0 – 50 | 3 |
| 50 – 100 | 7 |
| 100 – 150 | 4 |
| 150 – 200 | 5 |
| 200 – 250 | 4 |
| 250 – 300 | 3 |
| 300 – 350 | 2 |
| 350 – 400 | 2 |

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- (b) Construct a cumulative distribution table from the following frequency distribution and find the number of students obtaining below 15 marks:

Marks	Frequency
0 – 5	4
5 – 10	12
10 – 15	10
15 – 20	8
20 – 25	3
25 – 30	2

15. (a) A train travels first 300 kilometers at an average speed of 30 kmph and further travels the same distance at an average speed of 40 kmph. What is the average speed over the whole distance? **2**
- (b) The arithmetic mean of 12 observations was computed to be 6. Afterwards, it was found that one of the figures was wrong. Instead of 7 (seven, which is the correct figure) it was read as 1 (one, the wrong figure). Find the correct value of the arithmetic mean after incorporating this information. **2**
- (c) A firm of readymade garments makes both

men's and women's shirts. Its average profit is 6% of sales. Its profit in men's shirts average 8% of sales and women's shirts comprise 60% of output. What is the average profit per sales rupee in women's shirts? **2**

- (d) The mean and variance of two set of data are given below with the data size:

	Data	Mean	Variance
I	12	64	23
II	9	72	18

What can you say about the mean and variance of the combined set of observations as compared to the individual means and variances without performing any calculation? **2**

Essay (Compulsory) – 2005

Write an essay on any one of the following subjects:

1. Justice must reach the poor.
2. The hand that rocks the cradle.
3. If women ruled the world.
4. What is real education?
5. Terrorism and world peace.
6. Food security for sustainable national development.

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2006 GENERAL STUDIES MAIN

Paper - I

1. Answer any one of the following (in about 250 words): **30**
 - (a) Regardless of distance in time, there were lots of similarities between Lord Curzon and Jawahar Lal Nehru. Discuss.
 - (b) How did the Government of India Act, 1935 mark a point of no return in the history of constitutional development in India ?
2. Answer any two of the following (in about 150 words): **2 × 15 = 30**
 - (a) What was the attitude of Indian Industrialists towards the Indian National Congress in the pre-independent era ?
 - (b) Critically assess Sir Tej Bahadur Sapru's views on Indian Nationalism.
 - (c) Characterise the main features of Indian Renaissance.
3. Write about the following (not exceeding 20 words each): **15 × 2 = 30**
 - (a) Kalhana
 - (b) Panini
 - (c) Yakshagana
 - (d) Natyasastra
 - (e) Tabaqat-i-Nasiri
 - (f) Madhura Vijayam
 - (g) Pandurang Mahatmya
 - (h) Prithviraj Raso
 - (i) "The Insider"
 - (j) Ali Sardar Jafri
 - (k) Aruna Roy
 - (l) Dr. J.C. Daniel
 - (m) Balwant Gargi
 - (n) Dr. Jayant Narlikar
 - (o) Shashi Tharoor
4. Answer any two of the following (in about 125 words): **2 × 10 = 20**
 - (a) Bring out the prospects of development of alternative energy sources of India.
 - (b) Blue Revolution has definite advantages in India but it is not free from environmental impacts. Discuss.
 - (c) Why do the rivers of west coast not form a delta ?
5. Write notes on the following (in about 20 words each): **5 × 2 = 10**
 - (a) Mixed economy
 - (b) Winter rains in India
 - (c) New Moore Island
 - (d) National Water Grid
 - (e) Hussain Sagar
6. Answer any one of the following (in about 250 words): **30**
 - (a) What is right to life and personal liberty? How have the courts expanded its meaning in recent years ?
 - (b) On what grounds can a member be disqualified from either House of Parliament?
7. Answer any one of the following questions (in about 250 words) :
 - (a) What is the 'strategic partnership' between India and United States of America ? What are its implications for both the partners ?
 - (b) Discuss economic backwardness as a major challenge of Indian democracy. Can democracy and development go together smoothly ?
8. Answer any two of the following questions (in about 150 words): **2 × 15 = 30**
 - (a) How would you differentiate between the passage of a Constitution Amendment Bill and of an Ordinary Legislative Bill ?
 - (b) How does the Inter-State Council establish co-ordination between States?
 - (c) Is the High Courts' power to issue 'writs'?

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wider than that of the Supreme Court of India ?

9. Answer the following questions (in about 20 words each): **5 × 2 = 10**
- Explain the following terms :
 - Dissolution of the House
 - Prorogation of the House
 - Adjournment of the business of the House
 - What is Consolidated Fund of India ?
 - To what extent can the President withhold his assent to a Bill already passed by the Parliament ?
 - What is India's 'Look East' Policy?
 - What is meant by empowerment of women' in India ?
10. Answer any one of the following questions (in about 250 words) : **30**
- What are the social and economic consequences of abolishing child labour in India ?
 - Explain the implications of the implementation of Intellectual Property Clauses in our patent law regime after joining the WTO.
11. Answer any two of the following questions (in about 125 words each) : **2 × 10 = 20**
- Explain full convertibility of Indian Rupee.
 - What are the linkages to be developed under the Knowledge Revolution for Rural India Plan ?
 - What do we understand by 'Doha Round' of talks?
12. Answer any two of the following questions (in about 125 words each) : **2 × 10 = 20**
- Explain the social constraints in bringing about gender equality in Indian society.
 - What are the problems related to the rehabilitation of the mentally challenged persons in India ?
 - Bring out the issues involved in implementing compulsory primary education in India.
13. Write about the following (in about 20 words each) :
- Business Process Outsourcing
 - Female foeticide
 - RCI

- UNIDO
- S. Chandrashekhar

Paper – II - 2006

1. Write about any two of the following (in about 150 words each) : **15 × 2 = 30**
- US policy on Iran's nuclear programme
 - Terrorism : Sources in Pakistan and Afghanistan
 - Crippling the King in Nepal
2. Write about the following (in about 20 words each): **2 × 5 = 10**
- Simla Agreement
 - India-Israel cooperation in the field of agriculture
 - Pakistan's role in Sri Lanka
 - Indo-US military cooperation
 - Nuclear Non-proliferation Treaty
3. Write about the following (in about 20 words each): **2 × 5 = 10**
- Contribution of the NRIs to GCC countries
 - Future of Indians in Fiji
 - Indians in the House of Lords, UK
 - Contribution of Indians in Silicon Valley
 - Exodus of persons of Indian origin from Uganda
4. Answer any one of the following (in about 250 words): **30**
- Discuss the importance of World Trade Organisation (WTO) to Indian economy in the light of various opportunities and challenges at the global level.
 - Describe the main sources of Industrial finance in India. How could India be benefitted from recent developments in International finance ?
5. Answer any two of the following (in about 150 words each) : **15 × 2 = 30**
- Discuss the role of public sector during the post-reform period of Indian economy.
 - Examine the effects of globalisation on poverty removal in India.
 - What are the implications of gender disparities in India ?
6. Answer the following (in about 20 words each): **2 × 15 = 30**
- What is Phillips curve ?

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- (b) What is Hundi ?
 (c) What is twin deficit ?
 (d) What is the main difference between free trade area and common market ?
 (e) What is forward currency market ?
 (f) What is offshore currency market ?
 (g) What is Laffer curve ?
 (h) What are Eurobonds ?
 (i) What is disguised unemployment ?
 (j) What are nifty and the nifty junior ?
 (k) What is Agri-Trade ?
 (l) What is CEMA bloc ?
 (m) What is rolling settlement ?
 (n) What is the difference between Green Box subsidies and Blue Box subsidies ?
 (o) What are non-factor services in India's balance of payments ?
- 7.** Write about any two of the following (in about 150 words each) : **15 × 2 = 30**
 (a) G - 5 Summit in Russia
 (b) Expanding role of Amnesty International
 (c) Role of European Parliament
- 8.** Write about the following (in about 20 words each): **2 × 5 = 10**
 (a) Trade through Nathu La Pass
 (b) Outer Space Treaty
 (c) Withdrawal of Japanese Troops from Iraq
 (d) Maastricht Treaty
 (e) Cuba and Castro
- 9.** Write about the following, by expanding and explaining the objectives (in about 20 words each) : **2 × 5 = 10**
 (a) ICJ (b) INTELSAT
 (c) IBRD (d) WMO
 (e) WHO
- 10.** Answer any one of the following (in about 250 words): **30**
 (a) Justify with necessary logic "Biological clean-up methods can be cheaper than the conventional physical and chemical pollution treatments".
 (b) Explain how Nanoscience and Nanotechnology have revolutionized modern technology.
- 11.** Answer any two of the following (in about 150 words each): **15 × 2 = 30**
 (a) What do you understand by optical computing ? Why is optical computing envisaged to have much better performance than that of electronic computing?
 (b) Write a note on 'Bio-refinery versus Fossil fuels.'
 (c) What are normal osmosis and reverse osmosis ? Why has reverse osmosis become popular in India today ?
- 12.** Answer all the five (in about 20 words each): **2 × 5 = 10**
 (a) What do you understand by a 'search engine' in computing ?
 (b) Expand the following
 (i) CAD (ii) CAM (iii) CIM
 (c) Explain what is Thin Film Memory in computers.
 (d) Write a short note on 'Artificial Intelligence.'
 (e) Who are called 'Hackers' in computer world ?
- 13.** (a) In an opinion survey regarding a proposed civil measure to be introduced, altogether 2878 persons took part of which 1652 were males. 1226 persons voted against the proposal of which 796 were males. 1425 persons voted for the proposed measure. 156 females were undecided in their opinion.
 (i) Put the above information in a neat statistical table.
 From the table, calculate -
 (ii) the percentage of males among those voting for the proposal;
 (iii) the percentage of those voting for the proposal among the males. **8**
 (b) Present the following information using a suitable diagram: **8**

State	Percentage of Literates (2001 Census)		
	Male	Female	Overall
Kerala	94.20	84.86	90.72
Maharashtra	86.27	67.51	74.27
Tamil Nadu	82.33	64.55	79.47
West Bengal	77.58	60.22	69.22

- 14.** (a) From the following frequency distribution of 260 housewives of a locality according to their TV-watching habit-
 (i) draw the graph of cumulative frequencies of less than type :

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Hours per week watching TV	Number of housewives
5-9	13
10-14	39
15-19	60
20-24	75
25-29	42
30-34	27
35-39	4
Total	260

- Estimate using the above graph-
- the median of the distribution;
 - number of housewives spending at most 18 hours per week watching TV. **8**
- (b) The following table shows the average percentage of family expenditure, as also percentage increase in price in 2005 compared to 2000, for the major heads of expenditure for the urban middle class families in a State in India. Calculate the percentage increase in cost of living for this segment of population in 2005 compared to 2000 : **8**

Head of Expenditure	% of family expenditure	% increase in price in 2005 compared to 2000
000		
Food	25	32
Clothing	18	25
Fuel & Electricity	16	30
House Rent	15	20
Miscellaneous	26	45
Total	100	—

- 15.** Answer all the questions: **2 × 4 = 8**
- (a) A union leader complained : that the owners of this factory have adopted a policy of gradually decreasing the wages of its workers is amply evident from the fact that the average monthly wage of the workers

- has dropped down to Rs. 2,530 in January, 2006 from Rs 2,570 in January, 2005. Comment on the validity of the argument.
- (b) As high as 45% of the under-5 children, brought to the outdoor clinics of 4 major State-run hospitals in Kolkata last year, were found to be victims of malnutrition. Incidence of malnutrition among the under-5 children in the city must, therefore, be alarmingly high. Explain why you support the argument, or disagree with it.
- (c) In a community support project, the average grants (in Rs) received by the male and the female beneficiaries were 5,200 and 5,800 respectively, while the average grant received by all the beneficiaries was 5,560. What percentage of beneficiaries were females?
- (d) The amounts of rainfall (in mm) in a town on 10 consecutive days are as follows:
 8.5, 0, 6.8, 3.2, 4.8, 10.5, 76.2, 9.4, 0, 1.2
 Use a suitable measure to throw light on the central tendency of the data.

ESSAY (Compulsory) - 2006

- Write an essay on any one of the following subjects
- Women's Reservation Bill Would Usher in Empowerment for Women in India.
 - Protection of Ecology and Environment is Essential for Sustained Economic Development.
 - Importance of Indo-U.S. Nuclear Agreement.
 - "Education For All" Campaign in India : Myth or Reality.
 - Globalization Would Finish Small-Scale Industries in India.
 - Increasing Computerization Would lead to the Creation of Dehumanized Society.

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2007 GENERAL STUDIES MAIN

Paper - I

1. Answer any one of the following questions (in about 250 words): **30**
 - (a) What was the character of socio-religious reforms in the 19th Century and how did they contribute to the national awakening in India ?
 - (b) The crisis of the colonial order during 1919 and 1939 was directly linked to the constitutional reforms, disillusionment and militant anti-colonial struggles. Elucidate.
 2. Answer any two of the following questions (in about 150 words each): **15 × 2 = 30**
 - (a) What are the salient features of the Government of India Acts of 1858 and 1909 ?
 - (b) Do you think Mahatma Gandhi's support to Khilafat Movement had diluted his secular credentials? Give your argument based on the assessment of events.
 - (c) Evaluate the contribution of revolutionary terrorism represented by Bhagat Singh to the cause of India's struggle for independence.
 3. Write about the following (not exceeding 20 words each):
 - (a) Age of Sangam Literature
 - (b) Bhakti
 - (c) Ashtadhyayi of Panini
 - (d) Charvakas
 - (e) Ajivikas
 - (f) Gandhara Art
 - (g) Mlechchhas
 - (h) Lingayats
 - (i) Megasthenes
 - (j) R. C. Dutt
 - (k) Nagarjunakonda
 4. Answer any two of the following questions (in about 125 words each) : **10 × 2 = 20**
 - (a) Explain how the Himalayan and the Tibetan highlands play an important role in the development of the South - West monsoon.
 - (b) Technological changes have brought in a major shift in the use of roads as transport corridors in India. How far do you agree with this view ?
 - (c) Explain the nature and causes of growing slum problems in the metropolitan cities of India.
 5. Write notes on the following (in about 20 words each):
 - (a) Special Economic Zone (SEZ)
 - (b) Inceptisol
 - (c) Jarawas
 - (d) Indira Point
 - (e) Causes of Chambal Ravines **2 × 5 = 10**
 6. Answer any one of the following questions (in about 250 words): **30**
 - (a) What is a Constitution? What are the main sources of the Indian Constitution?
 - (b) Bring out the differences between the Fundamental Rights and the Directive Principles of State Policy. Discuss some of the measures taken by the Union and State Governments for the implementation of the Directive Principles of State Policy.
 7. Answer any one of the following questions (in about 250 words): **30**
 - (a) What is Regionalism? In which way regionalism has affected the Indian polity?
 - (b) What are the main determinants of voting behaviour in India ?
- (l) Pastoralism
(m) Rudramadevi
(n) Sati
(o) 'Ramanuja' **2 × 15 = 30**

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8. Answer any two of the following questions (in about 150 words each): $15 \times 2 = 30$
- What are the exceptions when the President of India is not bound by the aid and advice of the Council of Ministers?
 - What is pro tem Speaker?
 - Under what circumstances, Parliament may legislate on State subjects?
9. Answer the following questions (in about 20 words each): $2 \times 5 = 10$
- What is criminalization of politics?
 - How is the President of India elected?
 - What is casting vote?
 - What is the difference between Council of Ministers and Cabinet?
 - What is the importance of Right to Constitutional Remedies?
10. Answer any one of the following questions (in about 250 words): 30
- What were the main recommendations of the Platform for Action (PFA) adopted at the Beijing Women Conference, 1995?
 - Discuss the steps to get rid of child labour in India.
11. Answer any two of the following questions (in about 125 words each): $10 \times 2 = 20$
- What is stealth technology?
 - Differentiate between Natural and Cultural heritage.
 - What is value-based politics?
12. Write notes on any two of the following (in about 125 words each): $10 \times 2 = 20$
- Integrated Child Development Services (ICDS)
 - Prime Minister's 5-point agenda for India's development as a knowledge society
 - The Lokpal Bill
13. Write short notes on the following (in about 20 words each): $2 \times 5 = 10$
- Yakshagana
 - PACE
 - Footloose Industries
 - The Statue of Liberty
 - Genome
- (a) Indo-Russian Defence Co-operation
(b) India's response to political crisis in Bangladesh
(c) Elaborate on India's Nuclear Doctrine.
2. Write about the following (answer to each question should be in about 20 words): $2 \times 5 = 10$
- SAFTA
 - India and East Asia Summit (EAS)
 - Shanghai Co-operation Organisation (S.C.O.)
 - Panchsheel in India's Foreign Policy
 - Relevance of NAM
3. Write about the following (answer to each question should be in about 20 words): $2 \times 5 = 10$
- Pravasi Bhartiya Bima Yojana, 2006
 - Indian All-Women Contingent to Liberia
 - Madheshis in Nepal
 - Know India Programme (KIP)
 - Ministry of Overseas Indian Affairs
4. Answer any one of the following (in about 250 words): 30
- What is Dumping? Evaluate the remedial measures taken by Government of India vis-a-vis WTO provisions regarding dumping.
 - Comment on the relationship between credit availability and agricultural growth in India.
5. Answer any two of the following (answer to each question should be in about 150 words): $15 \times 2 = 30$
- What is the meaning and aim of Social Forestry? What are the main weaknesses noticed in Social Forestry Programme?
 - Bring out the main objectives of Rashtriya Krishi Bima Yojana. The scheme is being implemented by which agency?
 - Explain Mega Food Park Scheme of Government, of India.
6. Write about the following (answer to each question should be in about 20 words): $2 \times 15 = 30$
- Explain the term Merit Goods.
 - What is Cheap Money?
 - What is Countervailing Duty?
 - What is Hot Money?
 - Explain the Concept Trickle Down Theory.

Paper-II- 2007

1. Answer any two of the following (answer to each question should be in about 150 words): $15 \times 2 = 30$

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- (f) What is Stagflation ?
(g) What is Engel's Law ?
(h) Meaning of CCIL.
(i) What is Administered Price ?
(j) What is Venture Capital ?
(k) Explain the term Balance on Current Account.
(l) What is Consolidated Fund ?
(m) What is Budget Deficit ?
(n) Explain the term Most Favoured Nations.
(o) Meaning of Capital-Output Ratio.
- 7.** Write about any two of the following (in about 150 words each): **15 × 2 = 30**
(a) Impact of globalization on state system and its institutions.
(b) SAARC Summit 2007.
(c) The UN conference on Environment and Development (The Earth Summit)
- 8.** Write about the following (in about 20 words each): **2 × 5 = 10**
(a) G-8 Summit 2007
(b) Hyde Act of 2006
(c) Global Governance
(d) Operation Silence
(e) SAARC Human Rights Report 2006
- 9.** Write about the following by expanding and explaining the objectives (in about 20 words each): **2 × 5 = 10**
(a) ICT4D (b) BEMs
(c) IAEA
(d) BIMSTEC
(e) ECJ
- 10.** Answer any one of the following in about 250 words: **30**
(a) Explain the phenomenon of ozone depletion, its causes and effects. What effects are needed to reduce it ?
(b) What do you understand by the term 'biodiversity'? Examine the causes and consequences of degeneration of biodiversity.
- 11.** Answer any two of the following (answer for each question should be in about 150 words):
15 × 2 = 30
(a) What are the alternative fuels available for the transport sector? Discuss their characteristics, advantages and disadvantages in their utilization.
- (b) Explain the objectives and the current achievements of human genome project.
(c) Discuss the missile technology initiatives undertaken by India.
- 12.** Answer all the five (in about 20 words each): **2 × 5 = 10**
(a) What is firewall ?
(b) What is malware ?
(c) What do the following stand for ?
(i) MPEG (ii) ISP
(iii) HTML (iv) ASCII
(d) What is Root kit ?
(e) What is computer architecture ?
- 13.** (a) In the year 2000 out of a total 1750 workers of a factory 1200 workers were members of a union. The number of women employed was 200 of which 175 did not belong to the union. In 2005, the number of union workers increased to 1510 of which 1290 were men. On the other hand the number of non union workers fell down to 208 of which 180 were men. **8**
(i) Put the above information in a proper table with title.
(ii) Calculate the increase in the percentage of the female workers belonging to the union in that five year period.
(b) The marks obtained by 20 students in a subject are given : **8**
32, 62, 72, 46, 52, 74, 53, 42, 58, 61, 59, 46, 36, 76, 58, 77, 62, 48, 36, 39
Form a frequency distribution table with class interval 10. Also draw the histogram.
- 14.** (a) For the following distribution of statistics test grades, construct a frequency polygon and answer the following: **8**
(i) How many test grades are greater than 87 ?
(ii) What percentage of test grades are greater than 83 ?
(iii) What percentage of test grades are lower than 72 ?
(iv) What percentage of test grades are between 72 and 79 (inclusive) ?
- Test Grades:
73, 92, 57, 89, 70, 95, 75, 80, 47, 88, 47, 48, 64, 86, 79, 72, 71, 77, 93, 55, 75, 50, 53, 75, 85, 50, 82, 45, 40, 82, 60, 55, 60, 89, 79, 65, 54, 93, 60, 83, 59.

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- (b) Construct an appropriate diagram to show the following data of a University : **8**

Course	No. of students
Engineering	440
Arts	220
Agriculture	120
Home Science	80
Economic	60
Total	920

15. (a) What do you understand by : **2**
(i) Primary and Secondary Data
(ii) Data classification
(iii) Measures of central tendency
(iv) Characteristics of good average
- (b) The mean wage of 100 labourers working in a factory running two shifts of 60 and 40 workers respectively is Rs. 38. The mean wage of 60 labourers working in the morning shift is Rs. 40. Find the mean wage of 40 labourers working in the evening shift. **2**
- (c) The mean age of a group of 5 boys is 16 years. Another boy joins the group and then

the mean age of the group becomes 18 years. How old is the newcomer? **2**

- (d) Arithmetic means of two completely different sets of values may be the same. When extreme values are taken into consideration, the arithmetic mean is largely affected. Is it merit or demerit of arithmetic mean and give reasons for your statement. **2**

ESSAY (COMPULSORY) – 2007

Write an essay on any one of the following topics

1. Independent thinking should be encouraged right from the childhood.
2. Evaluation of Panchayati Raj Systems in India from the point of view of eradication of poverty to power to people.
3. Attitude makes habit, habit makes character and character makes a man.
4. Is autonomy the best answer to combat balkanization ?
5. How has satellite television brought about cultural change in the Indian mindset ?
6. BPO boom in India.

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2008 GENERAL STUDIES MAIN

Paper – I

1. Answer any two of the following (in about 150 words each) : **15 × 2 = 30**
 - (a) “The emergence of new social classes in British India was the direct consequence of the establishment of new social economy, new state system, administrative machinery and Western education.” Discuss.
 - (b) “British vision of India had no single coherent set of ideas. On the contrary, the ideas were shot through with contradictions and inconsistencies.” Discuss.
 - (c) “Non-Cooperation Movement gave new direction and energy to the National Movement.” Explain.
2. Write about the following (not exceeding 20 words each): **2 × 15 = 30**
 - (a) Lakshmi Bai, Rani of Jhansi
 - (b) Ilbert Bill
 - (c) Lala Hara Dayal
 - (d) Vaikam Satyagraha
 - (e) Indian States Commission
 - (f) Bodhisattva
 - (g) Megasthenes
 - (h) Brihadeshwara Temple, Tanjore
 - (i) Perini Shivatandavam
 - (j) Allasani Peddana
 - (k) Golkonda Fort
 - (l) Chishti Silsila
 - (m) Chouth and Sardeshmukhi
 - (n) Poona Sarvajanik Sabh
 - (o) ‘Rama Sethu’
3. Answer any two of the following (in about 150 words each) : **15 × 2 = 30**
 - (a) The winter rains in North India are largely related to Jet Streams and Western Disturbances. Bring out the relationship.
 - (b) Agricultural Productivity in India remain low. Explain the reasons for this situation.
 - (c) Bring out the pros and cons of Special Economic Zones.
4. Write about the following (not exceeding 20 words each): **2 × 5 = 10**
 - (a) Buckingham Canal
 - (b) Terai Region
 - (c) Organic Farming
 - (d) Demographic Dividend
 - (e) Nor westers
5. Answer any one of the following (in about 250 words): **30**
 - (a) What is meant by ‘Judicial Activism’ ? Evaluate its role in the context of the functioning of Indian polity.
 - (b) Discuss the major extra-constitutional factors influencing the federal polity in India.
6. Answer any two of the following (in about 150 words each) : **15 × 2 = 30**
 - (a) Enumerate the Fundamental Duties incorporated in the Constitution after the 42nd Amendment.
 - (b) Examine the demand for greater state autonomy and its impact on the smooth functioning of Indian polity.
 - (c) Discuss the composition and functions of the Union Public Service Commission.
7. Answer the following (in about 20 words each): **2 × 5 = 10**
 - (a) What is a Censure Motion ?
 - (b) Distinguish between the auditing and accounting functions of the CAG of India.
 - (c) Distinguish between a starred question and an unstarred one asked in the Parliament.
 - (d) What is contempt of Parliament ?
 - (e) What were the two major considerations to have the Governor appointed and not elected ?

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8. Answer any one of the following (in about 250 words): **30**
- What, in your opinion, are the causes of terrorism? Suggest suitable measures to deal with the threat of terrorism in India.
 - Do you think there is a need for a review of the Indian Constitution? Justify your view.
9. Answer any two of the following (in about 150 words each): **15 × 2 = 30**
- Examine the role of caste in Indian politics.
 - Discuss the problems in achieving National Integration in India.
 - Examine the impact of Regional Political Parties in Indian politics.
10. Answer any one of the following (in about 250 words): **30**
- "Globalization has brought about a distinct class divide in India instead of ushering in a classless society." Critically examine this argument.
 - "The conditions of the urban poor are more deplorable than that of their rural counterparts." Give your views.
11. Answer any two of the following (in about 150 words each): **15 × 2 = 30**
- Examine whether rural women in India have been empowered by their active participation in Panchayat Raj System.
 - "Decline in the sex ratio in India is an alarming sign for India's future social development." Discuss.
 - What should be the role of the media to project mass reality' in place of 'illusion of reality'?
12. Write about the following (in about 20 words each): **2 × 5 = 10**
- MTP Act
 - Supreme Court on Ragging
 - New Seven Wonders of the World
 - M. M. Punchi Commission
 - Lakshmi Mittal
- (c) India and China : Strategy to Boost Ties
2. Write about the following (answer to each question should be in about 20 words): **5 × 2 = 10**
- India's Ocean Development Policy
 - Major hurdles in Indo-Pak ties
 - India-Nigeria : Abuja Declaration
 - India-Bangladesh Border Road cum fencing
 - India's L.C.A. (Tejas)
3. Write about the following (answer to each question should be in about 20 words): **5 × 2 = 10**
- Pravasi Bharatiya Diwas
 - Council for Promotion of Overseas Employment (CPOE)
 - Overseas Citizenship of India (OCI) Scheme
 - Indian Diaspora in Singapore
 - Indian Diaspora and Bollywood
4. Answer any one of the following (in about 250 words): **30**
- Discuss India's stand on agricultural issues in WTO's Ministerial Conferences since Doha Round.
 - Assess the performance of India in attracting Foreign Direct Investment (FDI).
5. Discuss any two of the following topics (answer each question in about 150 words): **2 × 15 = 30**
- Assistance to the States for Development of Export Infrastructure and other Activities (ASIDE).
 - Convertibility of Indian Rupee.
 - India on Global Competitiveness Index-2007.
6. Write about the following (answer to each question in about 20 words): **5 × 2 = 10**
- Special Drawing Rights (SDRs)
 - NAMA
 - Non-tariff trade barriers
 - Current Account Balance
 - Free Trade Area
7. Write on any one of the following (answer in about 150 words): **15**
- South-South Cooperation
 - Universal Declaration of Human Rights
8. Briefly write about the following (answer to each question should be in about 20 words): **5 × 2 = 10**

Paper - II - 2008

1. Write notes on any two of the following (answer to each question should be in about 150 words): **2 × 30 = 60**
- India and the New World Order
 - Indo-Bhutan Relations

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- (a) Look East Policy and North-East India
 (b) India at the Beijing Olympics
 (c) India's role in Afghanistan Today
 (d) IPCC Report on Global Warming
 (e) Indo-EU Economic Ties
9. Briefly write about the following (answer to each question should be in. about 20 words):

5 × 2 = 10

- (a) G.C.C. (b) G-77
 (c) I.C.R.C. (d) MERCOSUR
 (e) INTERPOL
10. Answer any one of the following (in about 250 words) :
- 30**
- (a) In what way 'Medical Biotechnology' and 'Bioengineering' are useful for technological development of India ?
 (b) What do you know about Indian National Satellite Systems ? Describe its important features.

11. Explain any three of the following (in about 150 words each) :

3 × 15 = 45

- (a) Internet Protocol Television (IPTV)
 (b) Spintronics
 (c) Wifi
 (d) Components of Robots
12. Write brief notes on all the five (in about 20 words each) below :

5 × 2 = 10

- (a) Copyright and Trade-mark
 (b) TIFAC
 (c) Aspartame
 (d) Gene doping
 (e) Sappan
13. (a) The principal exports of India for the financial year 2001-2002 are given in the following table :

SI.No.	Category	Export (Rs. Crores)
1	Agriculture and allied products	29312
2	Ores and minerals	4736
3	Manufactured goods	161161
4	Fuels and lubricants	10411
5	Others	3398
	Total	209018

Represent the above data by a suitable diagram and comment on the export performance of the country. **6**

- (b) Prior to constructing a dam on a river the engineers performed a series of tests to measure the water flow at the proposed location of the dam. The results of the testing were used to construct the following frequency distribution.

Water flow (Thousands of gallons per minute)	Frequency
1001 - 1050	7
1051 - 1100	21
1101 - 1150	32
1151 - 1200	49
1201 - 1250	58
1251 - 1300	41
1301 - 1350	27
1351 - 1400	11

Construct an appropriate diagram to estimate what proportion of the flow occurs at less than 1300 thousands of gallons per minute. Give the estimate. **6**

14. (a) A company files its sales vouchers according to their sales value so that they falls in four strata. Two hundred, vouchers are received on a business day. The information is listed in the following table:

Stratum	Number of vouchers	Mean value (Rs.)
Above Rs. 1000	50	1800
Rs. 800 but under Rs. 1000	60	890
Rs. 400 but under Rs. 800	50	560
Less than Rs. 400	40	180

Calculate the mean value and the total value of the vouchers received by the company on the day in question. Use the histogram to estimate the modal value of the vouchers. **6**

- (b) A trip to a destination is made in the following way: 900 kms by train at an average speed of 60 kms/hr 3000 kms by plane at an average speed of 500 kms/hr 400 kms by boat at an average speed of 25 kms/hr 15 kms by taxi at an average speed of 45 kms/hr What is the average speed for the entire journey ? **6**
15. (a) A hotel owner has nine refreshment stalls located at various points in a large

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compound. He wants to make one of the stalls as a supply place such that amount of travel between the stalls and the source of supply is minimized. He has to visit all stalls almost equal number of times with a view to supplying the refreshment stuff everyday. The distances of stalls from the first stall are 250, 500, 650, 800, 850, 910, 940 and 1000 yards respectively. Which stall should he choose to use as the supply place? Give reason in favour of your answer. **2**

- (b) In a statistical investigation of 1003 families of a city, it was found that 63 families had neither a radio nor a TV, 794 families had a radio and 187 had a TV. How many families of the city selected in the sample had both? **2**

- (c) The mean monthly income of a person is Rs. 18190/- and his mean monthly expenditure comes out to be Rs. 17930. What is his average monthly saving? **2**

Essay (Compulsory) – 2008

Write an essay on any one of the following topics: **200**

1. Role of the Media in good governance
2. National identity and patriotism
3. Special Economic Zones : Boon or Bane
4. Discipline means success, anarchy means ruin
5. Urbanisation and its hazards
6. Is an egalitarian society possible by educating the masses?

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2009

GENERAL STUDIES MAIN

Paper - I

1. Critically analyse any two of the following statements with reference to the contexts in which they were made (in about 150 words each): **15 × 2 = 30**
 - (a) "Many Englishmen honestly consider themselves the trustees for India and yet to what a condition they have reduced our country."
 - (b) "The foreign power will be withdrawn but for me real freedom will come only when we free ourselves of the dominance of western education, western culture and the western way of living which have been ingrained in us."
 - (c) "Satan cannot enter till he finds a flaw,A great ocean separates us educated few from the millions in our country."
2. Write about the following (not exceeding 20 words each): **2 × 10 = 20**
 - (a) Kiang Nongbah
 - (b) Maski
 - (c) Govind Guru
 - (d) 'Brahmadeya'
 - (e) 'Egmore Faction'
 - (f) Haileybury College
 - (g) Jjara System
 - (h) Taji Mideren
 - (i) Gurudwara Reform Movement
 - (j) 'Marumakkathayam'
3. Answer any four of the following (in about 150 words each): **15 × 4 = 60**
 - (a) Assess the significance of coastal regions in the economic development in India.
 - (b) Discuss the wetlands and their role in ecological conservation in India.
 - (c) Elaborate the steps taken by the Government for regionally differentiated approach to increase crop production and diversification in the country.
- (d) Bring out the significance of the various activities of the Indian Meteorological Department.
- (e) Examine the status of urbanization among the states in India and bring out spatial inequalities.
4. Write about the following (not exceeding 30 words each): **3 × 10 = 30**
 - (a) 'bhuvan' website
 - (b) National Waterways
 - (c) Ultra Mega Power Projects
 - (d) NNRMS
 - (e) BSUP Scheme
 - (f) GAGAN Project
 - (g) Fruit Production in India
 - (h) Section 377 of IPC
 - (i) 'Whereabouts' clause of WADA
 - (j) Barren Island
5. Answer any two of the following (in about 100 words each): **10 × 2 = 20**
 - (a) Analyse India's achievement in the sports sector during 2008-09.
 - (b) List the salient features of the important folk dances of either Central India or North Eastern India.
 - (c) What are the important similarities and differences 'between the Hindustani and the Carnatic styles of classical music'?
6. Answer any two of the following (in about 150 words each): **15 × 2 = 30**
 - (a) What are your views on the features and impact of the Domestic Violence Act, 2005?
 - (b) Are the traditional determinants of voting behaviour in India changing? Examine in the context of the last General Elections.
 - (c) Examine corruption as a serious development challenge in Indian Polity.

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7. Answer any two of the following (in about 150 words): **15 × 2 = 30**

- (a) Mushrooming of Higher Educational Institutions was a matter of grave concern for Yashpal Committee. With reference to the relevant portion of that report give your views how to harmonise private investment and quality of education.
- (b) In the changing context of governance in the country, what should be the role of the UPSC ?
- (c) In the context of recent incidents, suggest measures on how security of passengers and property can be improved over Indian Railways.

8. Answer any one of the following (in about 250 words): **30**

- (a) Comment on the salient features of the Integrated Energy Policy recently approved by the Government and its implications on the energy security needs of the country.
- (b) How far has the impact of the global meltdown been reflected in the Economic Survey 2008 - 09 ? Identify some of the core areas given priority to neutralise the adverse effects of the global downturn.

9. Answer any two of the following (in about 150 words each): **15 × 2 = 30**

- (a) Trace the significant steps in the evolution of Television in the country.
- (b) The last National Family Health Survey (NFHS) displayed a very dismal picture of nutrition as regards several indicators for average Indians. Highlight the salient aspects of this problem.
- (c) 'As we live in a plural society we need the greatest freedom to express our opinions even if others find it offensive' - Do you agree? Discuss with reference to some recent incidents in the Indian context.

10. Write on the following (in about 20 words each): **2 × 10 = 20**

- (a) Significance of 26th November in the country's polity
- (b) Desert National Park
- (c) Rajiv Gandhi Seva Kendra
- (d) Deep Joshi's recent achievement
- (e) Girni Kamgar Union

- (f) Ayush-64
- (g) Rashtriya Gramin Vikas Nidhi (RGVN)
- (h) Satya Vrat Shastri's recent achievement
- (i) Pocket Veto
- (j) PESA, 1996

PAPER - II - 2009

1. Write notes on any three of the following in about 150 words each: **3 × 15 = 45**

- (a) India's strategic interests in South Asia
- (b) China's 'peaceful rise' doctrine
- (c) India - Russia Defence Ties
- (d) India's 'soft' and 'hard' power strategy in Foreign Policy.

2. Write brief notes on any four of the following in about 50 words each: **4 × 5 = 20**

- (a) Nuclear Supply Group (NSG) and India
- (b) Your views on the recent 'Gilgit - Baltistan Empowerment and Self-Governance Order 2009'
- (c) Wakhan Corridor
- (d) Nuclear Submarine 'Arihant'
- (e) National Security Advisory Board (NSAB).

3. Comment on any two of the following in about 100 words each: **2 × 10 = 20**

- (a) India - USA as strategic partners
- (b) Ethnic conflicts in South Asia
- (c) 'NEPAD' and its objectives.

4. Write on any Two of the following in about 50 words each: **2 × 5 = 10**

- (a) Indo - Bhutan trade relations
- (b) Sino - Myanmar relations
- (c) Geopolitics and Geostrategy.

5. Comment critically on any ONE of the following statements in not more than 200 words: **20**

- (a) "Foreign investment is far from being critical to India's economic growth."
- (b) "The lesson of the current global financial crisis is that India should halt and may be even reverse financial liberalisation."

6. Answer any One of the following in about 200 words: **20**

- (a) "In the WTO negotiations over the years of the DOHA Round, India appears to be diluting its stand on agriculture issues to pursue perceived gains in services." Critically examine this statement.

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- (b) Discuss the Indo-US knowledge initiative in Agriculture. Answer any Two of the following (Each answer must not exceed 150 words): **2 × 15 = 30**
- (a) Evaluate the prospects for greater economic co-operation between India and China.
- (b) Does India need the World Bank ?
- (c) Critically assess the recent Free Trade Agreement entered into by India with ASEAN.
- 8.** Answer any Three of the following (in about 150 words each): **3 × 15 = 45**
- (a) What do you understand by 'Bio-signatures'? Discuss briefly.
- (b) Write about Green Fluorescence Protein (GFP) and its applications.
- (c) Define 'Bioinformatics: How does it work? What are its major branches and applications? .
- (d) What is the 'Hubble Space Telescope' ? How many Servicing Missions (SMs) have been conducted for it ?
- 9.** Explain any Four of the following (in about 100 words each): **4 × 10 = 40**
- (a) DNA Finger Printing and its utility.
- (b) What is 'Nanotech' ? Give a brief account of its basic concepts, materials used and applications.
- (c) What is "Graphene"? Mention at least three of its applications.
- (d) Define 'optical frequency comb'. Suggest at least three applications.
- (e) Why is tele-medicine important for country like India ?
- 10.** Write brief notes on any Five of the following (in about 30 words each) : **5 × 3 = 15**
- (a) Artificial Sun
- (b) 'Vegetable Gold'
- (c) PFCs and 'liquid breathing'
- (d) The 'P-8A Poseidon'
- (e) Biometric ATMs
- (f) Extra Vehicular Activity (EVA)
- 11.** (a) The total areas of cultivation of high, medium and low sugar-content sugarcanes in four regions of a state are given below :

Sugar Content	Region			
	North	South	East	West
High	100	100	200	50
Medium	300	300	400	250
Low	800	400	1000	700
Total	1200	800	1600	1000

Draw suitable diagram that facilitates the comparison of areas of cultivation of different sugar-content varieties among the four regions.

- (b) The following table gives the production of soda ash (in tons) by three companies (A, B and C) over seven years period

Company	1996	1997	1998	1999	2000	2001	2002
A	20	25	28	31	34	36	41
B	15	18	23	35	40	46	50
C	45	43	40	37	30	26	20

Draw a suitable diagram so as to compare the performance of these companies.

- (c) The following data relate to the sales and net profit (in Rupees Crores) of a company :

Years	1994-95	1995-96	1996-97	1997-98	1998-99
Sales	100	250	300	290	680
Net Profit	2.5	4.5	6	8.5	12

- (i) In which year the percentage of growth in sales, relative to the previous year is higher?
- (ii) In which year the percentage of growth in net profit, relative to the previous year, is higher ?
- (iii) Let the profitability be defined as the ratio of Net Profit to Sales. In which year the profitability is higher ? **4**
- (d) The total sales (in '000 rupees) of a particular item in a shop, on 10 consecutive days, is reported by a clerk as follows :
 35.00, 29.60, 38.00, 30.00, 40.00, 41.00, 42.00, 45.00, 3.60, 3.80
 Later, it was found that reports of the 4th and 8th days were 10.00 more than the true values and that in the last two days the clerk put a decimal wrongly one place to the left (for example, 3.60 was really 36.0). Calculate the true mean value of sale. **5**
- 12.** (a) In a factory, 1500 women are working. Eight hundred of them come from rural areas and 450 of the married women are

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- skilled labourers. The number of skilled, rural and married labourers is 300. Of the 400 unmarried and skilled women labourers, 250 are from urban area. The number of married, semi-skilled women labourers from urban areas is 200. One hundred married rural women are semi-skilled labourers. Tabulate the above information. **4**
- (b) The mean score of a class in an examination is 70. If the mean score of boys is 60 and that of girls is 75, obtain the percentage of girls in the class. **4**
- (c) In a city 20% people read newspaper A, 25% people read B and 10% read both A and B. What is the percentage of people who read at least one of the two newspapers? **2**
- (d) In order to study the effect of inoculation on TB, it was found that the number of inoculated and unaffected from TB is 28, and not inoculated and affected from TB is 13. If inoculation was performed over 40

- persons out of 60 persons, complete the table and obtain the missing numbers. **2**
- (e) The percentage of literates in six villages of an area are noted as follows:
52, 46, 21, 30, 17, 24.
Can you compute the percentage of literates in the entire area from this information? If yes, compute the percentage. If no, state what additional information you would need for the computation. **2**

ESSAY (COMPULSORY) - 2009

Write an essay on any one of the following topics:
200

1. Are our traditional handicrafts doomed to a slow death?
2. Are we a 'soft' state?
3. "The focus of health care is increasingly getting skewed towards the 'haves' of our society."
4. "Good fences make good neighbours."
5. 'Globalism' vs. 'Nationalism'.

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2010 GENERAL STUDIES MAIN

PAPER - I

1. Answer the following (in about 250 words for each answer): **20 × 2 = 40**
 - (a) "Disputes between the- riparian states on sharing of river waters in post-Independence India are becoming increasingly complex." Objectively analyse the major disputes in this connection, with special reference to the Southern States.
 - (b) Critically examine the differing estimates for (i) poverty figures, and (ii) GDP growth data for April-June 2010, that have been in the news recently. In your view, what estimates are more reflective of the ground reality, and why ?
2. Answer any TWO of the following in about 150 words each: **12 × 2 = 24**
 - (a) "Dalhousie's predecessors had acted on the general principles of avoiding annexations, if these could be avoided. Dalhousie acted on the principles of annexation, if lie could do so legitimately. His annexations were both of war and peace." Analyse.
 - (b) With respect to Cooperative Societies what are the salient features of the 106th and 111th Constitutional Amendment Bills as at present?
 - (c) "Small-holder farms need to be strengthened to achieve national food security." Do you agree with this assessment? Substantiate.
3. Answer any TWO of the following in about 150 words each: **12 × 2 = 24**
 - (a) Comment on the spatial components in urban solid waste management in the country.
 - (b) Assess the contributions made by the Indian Council of Agricultural Research (ICAR) in agricultural development.
- (c) List the significant local storms of the hot-weather season .F in the country and bring out their socio-economic impact.
4. Answer any TWO of the following in about 150 words each: **12 × 2 = 24**
 - (a) What are the grounds of disqualification of a Member of Parliament from either House? Quote relevant provisions in your answer.
 - (b) Distinguish between the objectives, structure and functioning of the Kendriya Vidyalaya Sangathan' and the Navodaya Vidyalaya Samiti
 - (c) Bring out the salient features of the evolution and the current status of the 'Bharat Stage' vehicle emission norms in the country.
5. Write brief but precise notes on any SIX of the following.
Your answer should not exceed 50 words in each case. **5 × 6 = 30**
 - (a) Transhumance in India
 - (b) Frontogenesis and Frontolysis
 - (c) Golden Revolution
 - (d) Sea-floor spreading
 - (e) Legislative powers assigned to the Rajya Sabha under Art. 249 and Art. 312 of the Constitution
 - (f) Causes for dominant dendritic pattern of drainage in the Gangetic plains
 - (g) 'Break-of-bulk" towns
6. Answer any THREE of the following in about 150 words each: **12 × 3 = 36**
 - (a) While bringing out their salient features, distinguish between either 'Madhubani' Art and 'Manjusha' Art or 'Rajasthani' schools of painting and the 'Pahari' school of Painting.

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- (b) Bring out the powers and responsibilities attached to the office of the Speaker of the Lok Sabha.
- (c) Distinguish between the following four literary awards:
- Jnanpith Award
 - Sahitya Akademi Award
 - Vyas Samman
 - Saraswati Samman
- (d) After the September 1st changes, do you think that Unit Linked Insurance Plans (ULIPs) and Mutual Funds (MFs) are on a level playing field? Substantiate your answer from the perspective of an ordinary investor.
- 7. Answer any FIVE of the following in about 150 words each: $12 \times 5 = 60$**
- What do you understand by 'repo rate' and 'reverse repo rate'? What are the implications in raising these rates?
 - "Cost-benefit analysis should not be the sole consideration, while deciding to host events like the Commonwealth Games." Critically comment on this perspective.
 - List any eight 'Ramsar' wetland sites located in India. What is the 'Montreux Record' and what Indian sites are included in this Record?
 - Are the 'Dedicated Freight Corridor' railway project and the 'Golden Quadrilateral' road project mutually complementary or competitive? Assess.
 - "Upliftment of the neglected sections of society will be best served with many more centers of the Indira Gandhi National Tribal University." Expand on the assertion made.
 - Comment on the salient features of the recent (Post Model Real Estate (Regulation of Development) Act of the Ministry of Housing and Urban Poverty Alleviation of the Central Government.
- 8. Answer each of the following, briefly but precisely. Each answer should be less than 50 words. $5 \times 6 = 30$**
- How is disagreement between the Legislative Council and the Legislative Assembly of a State in passing of an ordinary Bill, resolved?
 - Comment on the recent HFC-23 emissions controversy that includes in its ambit some Indian companies.
- (c) Comment on the recommendations of the Wadhwa Commission on the Public Distribution System.
- (d) What are the salient features of The National Oil Soil Disaster Contingency Plan?
- (e) You arrive first at the scene where a bus accident has just occurred. What emergency measures should immediately and safely adopt?
- (f) Bring out the sectoral and state-wise distribution patterns of Foreign Direct Investment (FDI) inflows into the country.
- 9. Write brief notes on each of the following, in about 20 words each: $2 \times 8 = 16$**
- Contributions of Latika Ghosh to the freedom struggle
 - Bhai Maharaj Singh as a freedom fighter
 - Chandrayaan-II
 - Agni-V
 - Babli Project
 - 'SwavaJamban' Scheme
 - National Investment Fund
 - 'Aerostat' balloon
- 10. Who are the following and why have been in the news recently? (Each answer should not exceed 20 words): $2 \times 8 = 16$**
- Divya Ajithkumar
 - N.C. Saxena
 - Islam A. Siddiqui
 - Swarnalatha Cherukutty
 - Nitin Nohria
 - Deepak Mondal
 - Gaurav Singh Saini
 - Upendra Limaye

Paper - II - 2010

- 1. Answer the following in not more than 250 words each: $20 \times 2 = 40$**
- Critically examine the implications of the disintegration of the Soviet Union on India's security and strategic perspectives. What further responses would you suggest in India's foreign policy to accommodate these implications?

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- (b) Evaluate India's approach towards meeting the country's growing energy demands. Compare the success of this approach with that of another Asian giant which has perhaps the fastest growing energy demands.
2. Answer any FOUR of the following in not more than 150 words each : **12 × 4 = 48**
- (a) How far have Japan's principles of Hikaku San Gensoku impacted bilateral ties with India?
- (b) Assess the contributions of Indian Diaspora in the Caribbean.
- (c) Do you agree with the view that Israel is a 'natural ally' of India?
- (d) Bring out the FDI and employment implications of China being a manufacturing hub and India a services hub?
- (e) Have the Uruguay Round negotiations and the resultant Trade Related Intellectual Property Rights (TRIPS) agreement helped in resolving trade conflicts arising out of variations in different nations' IPR regimes? Also list the steps taken by India to conform to TRIPS.
- (f) Examine the recent developments towards the solution of the Bangladesh- Myanmar maritime boundary dispute. What implications do these have for India?
3. Answer any EIGHT of the following in not more than 50 words each : **5 × 8 = 40**
- (a) Compare and contrast the role of the IMF with that of the World Bank.
- (b) What are the major capacity-building and reconstruction projects being undertaken by India in Afghanistan?
- (c) Bring out the significance of GDI and GEM as components of the UN's Human Development Report (HDR). Comment on India's relative rankings with regard to HDI and GDI.
- (d) What is 'Round Tripping' in the context of FDI inflow, and why has it been in the news recently in the case of India?
- (e) Comment on the reason for the recent hike in visa processing fees for certain categories of US visas. What is the likely impact of this hike on India?
- (f) In the context of the United Nations Framework Convention on Climate Change (UNFCCC), distinguish between 'Annex I' and 'Annex II' countries.
- (g) Highlight the role of the Indian peacekeeping contingent as part of MONUSCO.
- (h) List the salient features of the Riyadh declaration and the bilateral agreements between India and Saudi Arabia signed earlier this year.
- (i) Comment on the reasons for the recent economic crisis in the so-called 'PIGS' countries of Europe.
4. Answer any TWO of the following in not more than 150 words each : **12 × 2 = 24**
- (a) Examine the opportunities for a lasting West Asia peace solution in the context of the 'historic' talks started in September 2010.
- (b) Has the February agreement between the Sudanese government and the Justice and Equality Movement (JEM) been more successful in ending the strife in Darfur than the Abuja peace agreement of 2006? Evaluate.
- (c) Comment on the present status of the Biological Weapons Convention (BWC). What important issues, do you think, need to be taken up at the seventh review conference of the BWC scheduled for 2011?
5. Answer any FOUR of the following in not more than 150 words each : **12 × 4 = 48**
- (a) Bring out the applications of computer models in studying climate changes, with special reference to the Community Earth System Model (CESM).
- (b) What is phytoremediation? Discuss its applications.
- (c) Explain and differentiate among 'Plasma', 'LCD' and 'LED' television technologies.
- (d) What is 'cloud computing'? Bring out its essential features and list its advantages and limitations.
- (e) Discuss the applications of nanotechnology in the health care sector.
6. Comment on any THREE of the following in not more than 50 words each : **5 × 3 = 15**
- (a) Rotterdam Convention

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- (b) The Mavi Marmara incident
 (c) Significance of the Kampala declaration of the International Criminal Court (ICC)
 (d) Trial chamber of the Extraordinary Chambers in the Courts of Cambodia (ECCC) and its recent verdict.
7. Comment on any SIX of the following in not more than 50 words each : **5 × 6 = 30**
- (a) MRSA infection
 (b) HRP-2M Choromet
 (c) Maglev vehicles
 (d) Super absorbent polymers (SAP)
 (e) Ginkgo biloba
 (f) CARTOSAT-2B
 (g) Various generations of mobile phone technology
8. Who/What are the following and why have they been in the news recently? (Your answers should be in a sentence or two only): **3 × 8 = 24**
- (a) Craig Venter
 (b) Shahrar Amid
 (c) Wolfram Alpha
 (d) 'Dreamliner' aircraft
 (e) Blue gene project
 (f) 'Predator' drones
 (g) 'Deepwater Horizon' incident
 (h) ACTN 3 gene
9. (a) The distribution of rent of 150 residential houses surveyed in a locality is as follows

Rent in Rs.	Number of Houses
101-150	10
151-200	18
201-250	27
251-300	35
301-350	30
351-400	16
401-450	8
451-500	6

- Find:
- (i) The percentage of houses having rent higher than '300'.
 (ii) The percentage of houses having rent more than 1 250 but less than Z 401. **5**
- (b) Workout the trend values by any suitable method from the following data showing the number of murders (in thousand) in a country for the years 1985-1995. **5**

Year	1985	1986	1987	1988	1989	1990
Murders	19.0	20.6	20.1	20.7	21.5	24.7

Year	1991	1992	1993	1994	1995
Murders	24.7	23.8	24.5	23.3	21.6

- (c) The data on the total investment on different heads under the eighth five year plan are shown below :



If the total proposed outlay on different heads is rs. 4,34,100 crores at 1991-92 prices, obtain separately the proposed outlay on each of the heads and make an overall comment. **4**

- (d) Represent the following data through a suitable diagram:

Region	'A'	'B'	'C'	'D'
Married Criminals	95	80	63	32
Unmarried Criminals	72	25	41	26

10. (a) Data on flight arrivals from several cities for two airlines are shown below for the last six months. **5**

Table : Citywise "ontime and delayed flights" for airlines A and B

	Airline A		Airline B	
	Ontime	Delayed	Ontime	Delayed
City I	497	62	694	117
City II	221	12	4840	415
City III	212	20	383	65
City IV	503	102	320	129
City V	1841	305	201	61

It is known that City II was mostly sunny and City V was mostly foggy during the six month period of data collection. Compare the performance of the two airlines A and B over

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the cities, in terms of percentage of delayed flights. What is your conclusion when the data on all the cities are combined.

(b) The arithmetic mean of two observations is 127.5 and their geometric mean is 60. Find (i) the two observations and (ii) their harmonic—mean. **3**

(c) The following table shows the number of bushels of wheat and corn produced in a farm during the years 1950-1960.

Express the yearly number of bushels of wheat and corn as percentages of total annual production. Graph the percentages by suitable bar charts and comment. **4**

Year	No. of bushels of wheat	No. of bushels of corn
1950	200	75
1951	185	90
1952	225	100
1953	250	85
1954	240	80
1955	195	100
1956	210	110
1957	225	105
1958	250	95
1959	230	110
1960	235	100

(d) Following are the maximum daily temperature (°C) recorded in a week in a particular city :

38, 40, 36, 35, 30, 32, 34

During that week the average maximum daily temperature in another city was 92°F Determine which city on the average, has higher maximum daily temperature during that week.

Essay (Compulsory) - 2010

Examiners will pay special attention to the candidate's grasp of his material, its relevance to the subject chosen, and to his ability to think constructively and to present his ideas concisely, logically and effectively.

Write an essay on any ONE of the following topics: **200**

1. Geography may remain the same; history need not.
2. Should a moratorium be imposed on all fresh mining in tribal areas of the country ?
3. Preparedness of our society for India's global leadership role.
4. From traditional Indian philanthropy to the Gates-Buffett model - a natural progression or a paradigm shift. **2**

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2011

GENERAL STUDIES MAIN

Paper-I

1. Answer **any three** of the following in about 250 words each: **20×3=60**
 - (a) 'Essentially all this is contained in Part IV-A of the Constitution is just a codification of tasks integral of the Indian way of life. Critically examine this statement.
 - (b) 'The exercise of executive clemency is not a privilege but is based on several principles, and discretion has to be exercised in public considerations.' Analyse this statement in the context of the judicial powers of the President of India.
 - (c) Discuss the extent, causes, and implications of the 'nutrition transition' said to be underway in India.
 - (d) Bring out the salient features of the PCPNDT Act, 1994, and the implications of its amendment in 2003.
2. Answer **one** of the following in about 250 words: **20**
 - (a) Trace the salient sequence of events in the popular revolt that took place in February 1946 in the then 'Royal Indian Navy' and bring out its significance in the freedom struggle. Do you agree with the view that the sailors who took part in this revolt were some of the unsung heroes of the freedom struggle?
 - (b) Evaluate the influence of the three important women's organizations of the early twentieth century in India on the country's society and politics. To what extent do you think were the social objectives of these organizations constrained by their political objectives?
3. Answer **one** of the following in about 250 words: **20**
 - (a) Critically examine the design of the Natural Rural Livelihoods Mission (NRLM) scheme. Do you think it has a better chance of success than the Swarnajayanti Gram Swarajgar Yojana (SGSY) in achieving its objectives?
 - (b) Highlight the structure, objectives and role of the Advertising Standards Council of India. In what way has the August 2006 government notification made it more effective?
4. Comment on **any five** of the following in about 150 words each: **12×5=60**
 - (a) Salient recommendations of the RBI-appointed Damodaran committee on customer service in Banks
 - (b) Deendayal Disabled Rehabilitation Scheme (DDRS).
 - (c) Evolution of 'Green Benches' in our higher judiciary.
 - (d) Distinction between 'Department Related Parliamentary Standing Committees' and 'Parliamentary Forums'.
 - (e) Benefits and potential drawbacks of 'cash-transfers' to 'Below Poverty Line' (BPL) households.
 - (f) New initiatives during the 11th Five Year Plan in the National Programme for Control of Blindness (NPCB).
5. Examine **any three** of the following in about 150 words each: **12×3=36**
 - (a) The impact of climate change on water resources in India.
 - (b) Measures taken by the Indian government to combat piracy in the Indian Ocean.
 - (c) The significance of counter-urbanisation in the improvement of metropolitan cities in India.
 - (d) Problems specific to the denitrified and nomadic tribes in India.

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6. In the context of the freedom struggle, write short notes (not exceeding 50 words each) on the following: **5×3=15**
- 'Benoy-Badal-Dinesh' martyrdom
 - Bharat Naujawan Sabha
 - 'Babbar Akali' movement
7. Comment on the following in not more than 50 words each: **5×6=30**
- Phase-IV of the tiger monitoring programme in India.
 - Why the Central Statistic Office has notified a new series of Consumer Price Index from this year?
 - Composition and functions of the National Executive Communities of the National Disaster Management Authority.
 - The Bihar Special Courts Act, 2009 and why it has been in the news recently?
 - The Telecommunications Ministry's proposed Spectrum Management Commission.
 - The Community-Led Total Sanitation (CLTS) approach to sanitation.
8. Attempt the following in not more than 50 words each: **5×4=20**
- Distinguish **either** between the 'Moatsu' and 'Yemshe' festivals of Nagaland **or** the 'Losar' and 'Khan' festivals of Arunachal Pradesh.
 - Write a sentence each on **any five** of the following traditional theater forms.
 - Bhand Pather
 - Swang
 - Maach
 - Bhaona
 - Mudiyettu
 - Dashavatar.
 - What are the major different styles of unglazed pottery making in India?
 - List the classical dance forms of India as per the Sangeet Natak Akademi.
9. Comment on following in not more than 50 words each: **5×5=25**
- Nisarga-Runa technology of BARC.
 - The first-aid that you safely administer to a person standing next to you at the bus-stop who suddenly faints.
 - The Kaveri K-10 aero-engine.
 - Molecular Breast Imaging (MBI) technology.
 - E-governance initiatives by the Union Public Service Commission (UPSC).
10. Who are the following and why have they been in the news recently? Each answer should not exceed 20 words) **2×7=14**
- Lieutenant Navdeep Singh
 - Rahim Fahimuddin Dangar
 - Lobsang Sangay
 - P.R. Sreejesh
 - Nileema Mishra
 - V. Tejeswini Bai
 - Aishwarya Narkar

Pater-II

1. Answer any **two** of the following in about 250 words each. **20×2=40**
- List the Central Asian Republics and identify those of particular strategic and economic importance to India. Examine the opportunities and bottlenecks in enhancing relations with these countries.
 - Critically examine the security and strategic implications of the so-called string of pearls theory for India.
 - "Compared to the South Asian Free Trade Area (SAFTA), the Bay of Bengal Initiative for Multispectral Technical and Economic Cooperation Free Trade Area (BIMSTEC FTA) seems to be more promising," Critically evaluates.
2. Answer any **three** of the following in about 150 words each: **12×3=36**
- Subsequent to the Number Suppliers' Group (NSG) waiver in 2008, what are the agreements on nuclear energy that India has signed with different countries?
 - Trace the progress of India's efforts for a joint counter-terrorism strategy with China. What are the likely implications of the recent Xinjiang violence on these efforts?
 - Bring out the importance of the 'Small and Medium Enterprises Expo and Conference' held in Dubai last year Indian business.
 - What are the salient features of the political and economic relationship between India and South Africa?

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3. Answer **either** of the following in about 250 words: **20**
- (a) "The causes and implications of the Jasmine Revolution and its spread are as much economic in nature as they are political." Critically evaluate.
- (b) In the context of the 'Euro-zone' debt crisis, examine the proposed 'six-pack' solution. Do you think that this has a better chance of success than the earlier Stability and Growth Pact?
4. Answer any **four** of the following in about 150 words each: **12×4=48**
- (a) "As regards the increasing rates of melting of Arctic Sea ice, the interests of the Arctic Council nations may not coincide with those of the wider World." Explain.
- (b) It there still a role for the concept of balance of power in contemporary international politics? Discuss.
- (c) "Strategic interests seem to be replacing commercial interests for the host country with regard to Cam Ranh Bay." Amplify.
- (d) To what extent has the withdrawal of al-Shabad from Mogadishu given peace a real chance in Somalia? Assess.
- (e) On a Formula-one (F-1) racing car track, information to drivers is generally signaled through the standardized use of flags of different colours. Describe the meanings associate with any **six** of the flags listed below:
- (i) White flat (ii) Black flag
 (iii) Yellow flag (iv) Blue flag
 (v) Black and white flag divided diagonally
 (vi) Chequered flag
 (vii) Yellow and red striped flag
5. Comment on any **thirteen** of the following in about 50 words each: **5×3=15**
- (a) International year of Chemistry
 (b) The source of e-waste
 (c) 'Designer' poultry eggs
 (d) INSPIRE programme of the Department of Science and Technology
 (e) The 'Kessler syndrome' with reference to space debris
 (f) Omega-3 fatty acids in our food
 (g) Difference between 'spin-drying' and 'tumble-drying' technology with reference to drying of washed clothes
- (h) The diminishing population of vultures
 (i) 'Arsenic-bug' and significance of its discovery
 (j) F-22 'Raptor' aircraft
 (k) 'Concentrated' solar energy and 'photovoltaic' solar energy
 (l) Analog, hybrid and IP systems in CCTV technology
 (m) Various applications of Kevlar
 (n) Difference between Compact Disc (CD), Digital Versatile Disc (DVD) and Blu-ray Disc
6. Comment of the following in about 50 words each: **5×5=25**
- (a) Functions of the World Customs Organisation (WCO)
 (b) Success of international intervention in Cote d'Ivoire (Ivory Coast)
 (c) Strategies adopted by Colombia to eliminate its drug cartels
 (d) World Food Programme (WEP) of the United Nations (UN)
 (e) Sculpture of the broken chair in front of the UN building at Geneva
7. (a) Why have each of the following been in the news recently? (Each answer in a sentence or two only) **2×10=20**
- (a) Tiangong-1 (b) K-computer
 (c) Gliese 581 g (d) MABEL robot
 (e) 'Operation Shady Rat'
 (f) 'SAGA-220'
 (g) 'Billion Acts of Green'
 (h) L'Aquila earthquake
 (i) OPERA detector at Gran Sasso
 (j) Saturn's Titan
- (b) Draw an ogive for the following distribution. Read the median from the graph. How many students get between 60 and 72? **5**

Marks	No. of students
50-55	6
55-60	10
60-65	22
65-70	30
70-75	16
75-80	12
80-100	15

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(c) From the following data calculate missing frequency:

No. of tablets	No. of persons cured
4-8	11
8-12	13
12-16	16
16-20	14
20-24	?
24-28	9
28-32	17
32-36	6
36-40	4

The average number of tables to cure fever was 19.9.

8. Why have the following been in the news recently?

(Each answer in a sentence or two only) $2 \times 5 = 10$

- 'News International' newspaper
- Mustafa Abdul-Jalil
- Abel Kirui
- Natalie Portman
- Nawaf Salman

9. (a) List the requisites of a good table.

Present the following in a suitable a tabular form: **5**

In 1980 out of a total of 1750 workers of a factory, 1200 were members of a union. The number of women employed was 200 of which 175 did not belong to the union. In 1985 the number of union workers increased to 1580 of which 1290 were men. On the other hand the number of non-union workers fell down to 208 of which 180 were men. In 1990 there were 1800 employees who belonged to the union and 50 who did not belong to the union. Of all the employees in 1990, 300 were women of which only 8 did not belong to the union.

- The mean of 200 items was 50. Later on it was found that two items were wrongly read as 92 and 8 instead of 192 and 88. Find the correct mean.
- Students were asked how long it took them to walk to school on a particular morning. A cumulative frequency distribution was formed.

Time taken (minutes)	c.f.
< 5	28
< 10	45
< 15	81
< 20	143
< 25	280
< 30	349
< 35	374
< 40	395
< 45	400

- Draw a cumulative frequency curve.
- Estimate how many students took less than 18 minutes.
- 6% of students took x minutes or longer. Find x.

- (d) An investor buys Rs. 1200 worth of shares in a company each month. During the first five months he bought the shares at a price of Rs. 10, Rs. 12, Rs. 15, Rs. 20 and Rs. 24 per share. After 5 months, what is the average price for the shares by him? **4**
- (d) Life-time 400 tubes tested in a company is distributed as follows:

Life-time (Hours)	No. of tubes
300-399	14
400-499	46
500-599	58
600-699	76
700-799	68
800-899	62
900-999	48
1000-1099	22
1100-1199	6

Determine

- Relative frequency of sixth class.
 - Percentage of tubes whose life-time does not exceed 600 hours.
 - Percentage of tubes whose life-time greater than or equal to 900 hours.
 - Percentage of tubes whose life-time is at least 5000 but less than 1000 hours.
10. A car travels 25 km at 25 km at 50 kph, and 25 km at 75 kph. Find the average speed of the car of the entire journey.

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Write an essay on any *one* of the following topics:

200

1. Certain of smaller states and the consequent administrative, economic and developmental implications.
2. Does Indian cinema shape our popular culture or merely reflect it?
3. Credit-based education system—status, opportunities and challenges
4. In the Indian context, both human intelligence and technical intelligence are crucial in combating terrorism.

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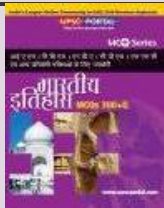
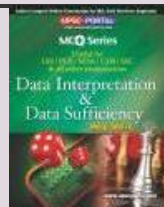
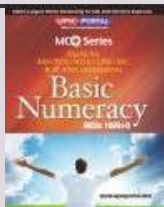
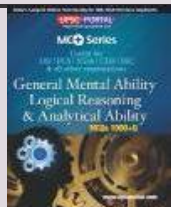
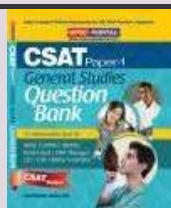
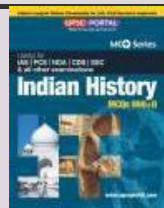
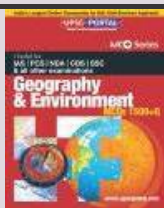
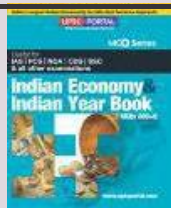
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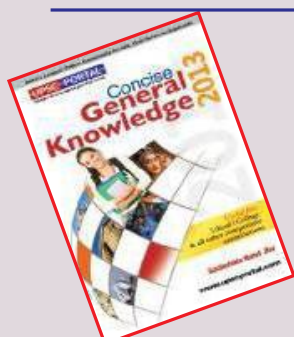
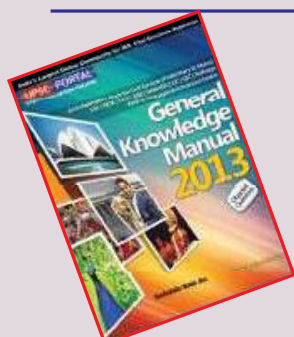
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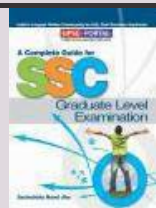
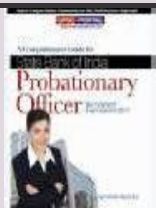
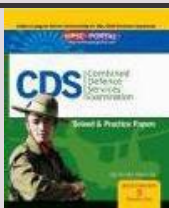
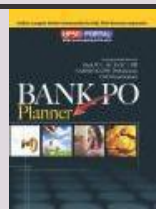
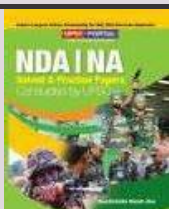
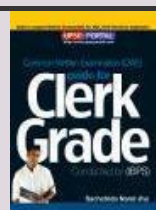
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