Contents

Page Nos.

14

PART - I

GIST OF EDITORIAL & ARTICLE OF VARIOUS NEWS PAPERS AND MAGAZINE

1.	NATIONAL	
	• Naxalism	1
	Aadhaar	1
	The Looming Perils Of Over-Fishing	2
	 Cag: Some Answers To Clear Doubts And Misperceptions 	2
	Government Lokpal Bill	4
	 Judicial Delay May Become A Thing Of The Past 	4
	Getting To Know The Abc Of Cag	5
	Towards A Level Playing Field	6
	A Major Milestone In Polio Eradication	7
	 Who should judge the judges? 	7
	Lessons In Judicial Restraint	8
	Spies Shouldn't Police Us	8
	The Railways Need Funds	9
	 Needed, More Hungama Over Malnutrition 	9
	Urban Planning	10
	Spending For A Healthy India	11
	Hasten Slowly	11
	Bodoland At A Crossroads	11
	PDS System	12
	Water Transport Imperatives	12
	 Don't Burden The Poor Undergraduate 	13
	Labour Law In India	13

• Media And Regulation

In Pursuit Of Inclusive Education	15
 For A Universal Old-Age Pension Plan 	15
 Justice Dalveer Bhandari Became Member Of ICJ 	16
 Advance Indian Standard Time By Half An Hour 	16
Justice For The Tiller's Land	18
Historical Roots Of The Moist Problem	18
Marriage Laws Amendment Bill, 2010	20
 Protection Of Children From Sexual Offences Act, 2012 	20
Universal Health Produces Equity	21
Updating Our Copyright Laws	21
Better System For Better Results	22
A Law That Enables	23
 Serological (Blood) Test Kits For Diagnosing Active Tb 	23
 Universities For Research And Innovation Bill, 2012 	24
 Farm Suicides Rise In Maharashtra, State Still Leads The List 	25
 Aadhaar And Mgnrega Are Made For Each Other 	25
Breathing Uneasy Over Tb	26
Naresh Chandra Report	27
Our Democracy Must Empower Voters	27
From Kargil To Parakram, A Lesson In Forceful Persuasion	28
Disturbing Trends In Judicial Activism	29
Defending The Indefensible	30
The Age Of Judicial Reform	30
Prohibition Of Employment As Manual Scavengers And Their	31
Development Partnership Administration	32
Winning The Case For Promotion Quotas	32
In The Company Of Men	32
Sedition? Seriously?	33
Bill For Land Gives True Value	33
A Fair Deal For Domestic Work	35
Deep Waters Won't Run Still	35
Not In Their Comfort Zone	36
Highlights Of The Draft Bill On The Rights Of Persons With Disabilities	36
NSA Announces Cyber Security Cooperation With Private Sector	37

	The Quest For Naga Accord	38
	The Power Of RTI	38
	Striking At The Root Of Corruption	38
	Growing Crisis Of Drug Prices	39
	The Promise Of Unconditional Money	39
	117th Constitution Amendment Bill	41
	Explanatory Note: Why People Oppose The Rush To Cash Transfers And Uid	41
	Needed, Urgent Electoral Reforms	42
	Cash Transfers Can Help Make India Less Unequal, But Are	43
	When India Had 1,500 Fast Track Courts	44
	Two Years Without Polio	44
	Drug testing on trial	45
	National cyber security architecture in the offing	46
	An abomination called AFSPA	46
	Scoring higher on education	46
	From Bengal Famine to Right to Food	47
	Wrestling with a shocker	48
2.	INTERNATIONAL	50
	War And Human Rights	50
	What Kabul Needs To Hear From Bonn	50
	Punishing Palestinians	50
	Vulture Funds Targeting World's Poorest Nations	51
	Customs Union: Russia	51
	How To Ignore Somalia	51
	A Slow But Necessary Ascent	52
	Don't Ask, Don't Tell' law?	52
	First Test For New Myanmar	53
	China's Star Trek, Steadily Paced	53
	Responsibility To Protect	54
	Health Insurance' Scheme Of Usa	55
	• C.S.T.O.	55
	U.N. Treaty on Global Arms Trade	55
	Rigging The Rate	56

	An Uncharacteristic Surrender	56
	 Japan's 30-Year Plan To Be Nuclear-Free 	56
	A Sobering Report On Hunger	57
	A Russian Bridge Across Eurasia	57
	Militaristic Engagement	57
	World Conference On International Telecommunication	58
	• C.E.R.N.	58
	Between A Rock & The Republicans	59
3.	ECONOMY	60
	Major Steps Taken By The R.B.I To Support Decline Of Rupees Against Dollar	60
	The Private Sector's Turn To Deliver	60
	Zero Score Household	60
	Low Expectations	61
	Reserve Currency	61
	Bringing Back What's Ours	61
	Rajiv Gandhi Equity Saving Scheme	62
	Re-Examine The Methodology For Fixing A Poverty Line	63
	Foreign Trade Policy (Ftp) (2009-14)	63
	Elinor Ostrom	64
	Bad Move On Gaar	64
	• Inclusive PDS	64
	Inflation And Downgrading The Sovereign Rating	65
	Premium On Regulation	66
	IMF And Exchange Rate	66
	Don't Ink This Nib	66
	Shome Panel's Wrong Call	67
	'More FDI In Insurance Will Undermine Economic Security'	67
	Risky Futures That Banks Can Do Without	68
	Diluting Gaar	69
	Fourteenth Finance Commission	70
	The risk business needs better cover	70
	It's not prudential to bank on discretion	71
4.	ENVIRONMENT	73
	Carbon Emissions Show Biggest Jump Ever Recorded	73

	Evergreen Hornbills	73
	Climate Talks: 'Delayer Countries' Flex Muscles	73
	Role Of Green Revolution	74
	Thirst In The Land Of Malhaar	74
	Secrets Of The Western Ghats	75
	Of Mines, Minerals And Tribal Rights	75
	'Asian Unicorn' At Risk Of Extinction From Poaching	77
	Initiatives Taken By Government To Protect Locally Endangered Species	77
	It'll Take More Than Markets To Build A Green Future	78
	To Know, Is To Protect	78
	Watershed In Fight For Survival	79
	Desertification Is Nearly As Critical As Climate Change'	81
	Lethal Ingredients In The Rio+20 Mocktail	82
	A Natural Choice For World Heritage Status	82
	'Genetically Modified Crops No Panacea For Food Security'	83
	India And Climate Change	84
	Bird Calls For Help	84
	Advantage Of Green Building Practices	85
	A Sure Recipe For Disaster	85
	Include The Poor In Biodiversity Conservation	86
	Red Marks In India's Green Report Card	86
	The Economics Of Nature	87
	At Sea Over Marine Conservation	87
	Beware Of Permafrost Peril, Climate Talks Told	87
	Why A National Water Framework Law	88
	Recycle grey water	89
	Development minus green shoots	89
5.	INDIA & THE WORLD	91
•	Challenges Ahead For India's Nuclear Diplomacy	91
	Indo-Pak Relation	91
	For A Fair, Free Trade Pact With Europe	92
	For Oil And Peace, India Must Stand Up In The Two Sudan's	92
	Maritime Cooperation	93
	Brics Is The Defender Of The Developing World	93
	bhos is the belefider of the beveloping violid	, ,

		`
	Brics Starts Building	94
	Sensors Across The World	94
	USA-Iran And India	95
	India And South China Sea	96
	India China Relations Still Seriously Mismatched	96
	India Is Not A Global Power	97
	Settle The Siachen Dispute Now	98
	Who governs the high seas?	99
	India & Myanmar	100
	Second Chance In Asia's Cockpit	100
	16th Summit Of Nam	100
	Still Relevant After All These Years	101
	Green Shoots In India-Myanmarties	102
	Dealing With Pakistan's Brinkmanship	102
	Give-And-Take At The Border	103
	• Sir Creek	103
	Filling The Strategic Space In South-East Asia	104
	For Russia, Deepening Friendship With India Is A Top Foreign Policy Priority	105
	For An India-Led Security Architecture In South Asia	105
	India must get in on the ground floor	106
	MCQs for Final Practice	108-120
	PART - II	
	INITIATIVES TAKEN BY THE GOVERNMENTS IN VARIOUS SECTORS	
1.	SOCIAL SECTOR	121
	Children's Right To Protection – Emerging Structures And Mechanisms	121
	Awas Yojana	122
	JNNURM: serving the urban poor	124
	International Literacy Day	124
	Expenditure on holding elections	124
	Quotable Quotes Of Mahatma Gandhi	125
	Legal Aid Clinics Scheme	125
	Citizens right to grievance redress bill 2011	126

Empowering the workers	126
 Empowering the adolescent Girls – Sabla 	128
Backward Regions grant Fund	128
 National Policy on Narcotic Drugs and Psychotropic Substances 	129
 Improving the Justice Delivery System in the Country 	130
 Healthy mother and healthy child ensuring zero expense deliveries 	130
Disabled Get Social Justice	131
Drug abuse – a holistic approach	133
 Tackling the backlog of cases in the courts 	133
The right of every child: the right to education	134
Strengthening secondary education	135
Communal harmony	135
Water security in rural area	136
MGNREGA	137
 E -Panchayat- an innovative way for enhanced working 	138
E-governance initiatives-changing lives for the better	139
Indian education: looking ahead Education	141
National urban sanitation policy	142
Swabhimaan: a unique financial inclusion initiative	143
 Women and children welfare schemes: breaking new frontiers 	143
 Pre-conception & pre-natal diagnostics techniques act, 1994 	144
 Making contract labour act more worker friendly 	145
Bridging rural-urban divide through ICT for better life in rural communities	146
Need to regulate Indian surrogacy industry	147
 NFCH for promoting communal harmony proactively 	148
 Rajiv Gandhi national drinking water mission - a success story 	149
 Population stabilisation- the way ahead 	150
Rehabilitation of manual scavengers	150
 In pursuit of increasing employment and employability of women 	151
E-office for effective and transparent governance	152
 POCSO act – providing child-friendly judicial process 	152
Pradhan Mantri Swasthya Suraksha Yojana	153
Schemes & facilities for the senior citizens	154
Swarna Jayanti Shahari Rozgar Yojana	155

	Urban women self-help programme (uwsp)	156
	National service scheme	157
	Direct benefits transfer: timely and quick transfer to beneficiaries	157
	Rashtriya Bal Swaasthya Karyakram A New Preventive Health Care Initiative	159
2.	FINANCIAL SECTOR	161
	Tourism in India: an overview	161
	External debt: definitions and concepts	161
	Public expenditure reforms	163
	Design clinic scheme – frequently asked questions	164
	FDI in multi brand retail	165
	Improving road transport	166
	Telecom sector – growing from strength to strength	167
	E-procurement system for transparent governance	167
	PSES - performance overview	168
	 Indian agriculture prepares itself for a new phase 	168
	Infrastructure debt fund	169
	• Aviation	170
	New and innovative schemes for technology development of Msmes	171
	Jago Grahak Jago' – An Initiative Towards Consumer Education	173
	 Revised series of wholesale price index (base 2004-05=100) to reflect 	175
	 Market information at farmers' fingertips: a new initiative by NABARD 	176
	Sericulture for developing the rural economy	176
	Tapping the huge potential of food processing sector	177
	Building corridors - fuelling growth - DFC carrying India to new height	178
	Eastern regions to become the food bowl of the country	178
	Financial inclusion to bring every household in banking ambit	179
	Status of saving and investment in India	179
	Some Steps to Boost Retail Investors Participaation	180
	Achievement & Technology demonstration of ICAR	181
	Status of manufacturing growth in India	183
	Delhi Mumbai Industrial Corridor (DMIC) Project	184
	Foreign Direct Investment (FDI) Policy	185
3.	ENERGY SECTOR	186
	Solar cities on the anvil	186

	R-apdrp: giving new heights to power reforms	186
	Improving energy efficiency	187
	RGGVY: turning the wheel of rural india	189
	Ultra mega power projects	189
	Biomass - a storehouse of clean energy	190
	Wind energy: a nature's bonanza for eternity	191
	Tapping energy from small hydro power projects	191
	Deriving energy from waste	192
	Hydrogen: energy of the future	193
	Bio-diesel – an eco-friendly fuel	193
	Solar India	194
	Nano Mission - towards global knowledge hub	195
	Green economy	197
4.	ENVIRONMENTAL SECTOR	197
	Western Ghats: challenges of sustainable development	198
	Protecting biodiversity of the eastern ghats	199
	Organic farming in India	201
	Mangroves for the future	201
	Green productivity for sustainable energy and environment: need of	202
	Impact of black carbon on climate	202
	Green India mission – a way to enhance eco-systems	203
	Green India mission' to increase forest cover	204
	National green tribunal	204
	Celebrating biodiversity	205
	NEMMP 2020: a wise investment for our future generations	207
	Thanjavur Veena & G.I.	208
	Tiger Population in India	209
	Nuclear power is our gateway to a prosperous future	211
5.	SCIENCE & TECHNOLOGICAL SECTOR	211
	Research & development in nanoelectronics: India getting ready to	212
	Science & technology in pursuit of excellence & social development	213
	Improving forecasting services	213
	Nasa confirms Chandrayan's discovery of water on moon	214
	Traditional knowledge digital library (TKDL) – an effective and	215

-		`
	Isro's successful mission	217
	C-band polarimetric doppler radar- better	218
	Some facts about India's defence technology	220
	 NCAOR: the Indian gateway to polar regions 	221
	Biotechnology information network	222
	 International conference on chronic hypoxia: an overview 	223
	Largest solar telescope in the world	223
	Telecom Sector in India	224
	Dornier - 228 Surveillance Aircraft	228
6.	OVERSEAS INDIAN	230
	 India and AARDO in search of new horizons 	230
	Initiatives for overseas Indians	230
	 Indian peacekeepers in north kivu province, Congo 	231
	 Mahatma Gandhi Pravasi Suraksha Yojana (MGPSY) 	232
	Welfare schemes for Indian diaspora youth	233
	PART - III	
	CURRENT EVENTS OF NATIONAL & INTERNATIONAL IMPORTANCE	
1		224
1.	NATIONAL	234
2.	NATIONAL INTERNATIONAL	285
2. 3.	NATIONAL INTERNATIONAL INDIA & THE WORLD	285 319
2.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS	285 319 351
2. 3. 4.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT	285 319 351 393
2. 3. 4. 5.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS	285 319 351
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS	285 319 351 393 417
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS AWARD	285 319 351 393 417 421
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS AWARD SPORTS	285 319 351 393 417 421 424
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS AWARD SPORTS	285 319 351 393 417 421 424
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS AWARD SPORTS MCQS for Final Practice	285 319 351 393 417 421 424
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS AWARD SPORTS MCQS for Final Practice PART - IV SPECIAL MATERIAL ON SCIENCE & TECHNOLOGY	285 319 351 393 417 421 424 426-431
2. 3. 4. 5. 6. 7.	NATIONAL INTERNATIONAL INDIA & THE WORLD ECONOMICS ENVIRONMENT PERSONS IN NEWS AWARD SPORTS MCQS for Final Practice PART - IV	285 319 351 393 417 421 424

 C-band Polarimetric doppler radar- better 	434
Biomass - a storehouse of clean energy	436
 Wind energy: a nature's bonanza for eternity 	437
 Tapping energy from small hydro power projects 	438
 Deriving energy from waste 	439
 Hydrogen: energy of the future 	440
Defence Technologies in India	440
 NCAOR: the Indian gateway to polar regions 	441
Bio-diesel – an eco-friendly fuel	442
Solar India	443
 Nano mission - towards global knowledge hub 	444
 Celebrating biodiversity 	445
Magic of Graphene	445
Carbon Nanotubes	446
 Reviving traditional methods to protect farm livestock 	446
 Indian scientists traverse shortest path to south pole 	446
Synthetic blood now closer	446
 How pollution damages human airways 	447
Six small planets orbiting a star found	447
 Finland far ahead in nuclear waste management 	448
 Cholera vaccination post-outbreak beneficial 	448
Nanolasers for faster microprocessors	448
 Why agriculture policies are outdated and contradictory 	448
Dengue vaccine developed	449
 Nano solution for safe water 	449
 Gene swapping by flu viruses 	449
 Has the earth's sixth mass extinction already arrived? 	450
Engineered fungus to fight malaria	450
 China's lunar probe to bring back rocks 	450
 Impact of wrong use of a clean fuel 	450
 How the nuclear plant crisis happened 	451
What the radiation dose levels mean	452
Graphite and diamond	452
 For more solar energy 	452

Orissa farmers take to Emu bird farming	453
 Background radiation and radioactivity in India1 	453
• 3D glasses	454
 Tri-gate: Intel enters the 3-d for transistors 	454
 IVF embryos: new genetic testing technology 	455
Gagan – making GPS more accurate	456
Moon Express Inc.	457
Rare Earths	457
 Wise investment in hydrographic services capacity building needed 	458
 Most powerful supercomupter 	458
Bionic specs for the blind to see	458
 1000 genome-wide association studies lack global coverage 	458
China's ambitious space program	459
Bio-input good substitute for fym in pulses	459
Graphene to shape future computers	459
 Irradiation makes cow dung bio-fertilizer safer 	460
 Oxygen molecules detected in orion constellation 	460
Endosulfan entangle: when pesticide turns pest	461
DNA found in meteorites	461
 National project on climate resilient agriculture launched 	461
• Earth's orbit	462
Antimatter mystery solution closer	462
Breakthrough in hydrogen fuel cells	463
Firing lasers to make rain?	463
Bio fertilizers for tree cultivation	464
 Powering power sector 	464
Multidrug-resistant TB on the rise	464
 A promising service in 3g mobile networks 	464
Dish TV reception	465
 Monster star, with shells spotted 	466
PSLV puts 4 satellites in orbit	466
 Induced pluripotent stem cells cure liver cirrhosis 	466
Graphene spurs next generation chips	467
World's biggest virus found	467

 Enabling India to shine in the world of science 	467
 When 60 nanoseconds threaten modern physics 	468
 World's smallest car from nanotechnology 	469
 Smart grid is the 'energy internet' of the future 	469
 Use of microalgae helps in controlling pollution 	470
Cell phone	471
 Blue brain project: modelling the human brain in the lab 	471
 More potent ways to design HIV drugs found 	472
 Top breakthroughs of the year 2011 	472
 Rubber-mixed bitumen for roads 	473
 India's mangrove cover rises 	473
 'World's highest resolution' lunar images released 	474
 Soil fertility Management to sustain production 	474
Hominin genome sequenced	474
 Students' 'space web' experiment to be launched soon 	474
 India's alarming share of global new leprosy cases 	475
Cancer killed 5.56 lakh people in India in 2010'	475
Earth make-up differs from that of the sun	476
How black holes grow bigger	476
Tiny gene change affects IQ	476
A way to improve climate predictions	477
Solar storms threaten high-tech civilisation	477
The safest way for plutonium disposal	478
clues to a universal flu vaccine found	478
Two meteorological equators	478
Dragon capsule to dock with the iss	479
Large solar telescope operational	479
Green rust' could scrape toxic metals	480
What next after a higgs boson-like particle?	480
Glaciers in the Himalayas are shrinking rapidly, says study	480
An eco-friendly organic led developed	481
 Navy commissions full-scale station in Lakshadweep 	481
 Army Chief Reviews conduct of 'Shoor Veer' on western border 	482
Hello 4G! Smaller phones, faster data	482
·	

•	Seaports, airports to get radiation detection equipment	482
•	Untreated groundwater a serious health issue, says survey	483
•	With missile defence shield, India in elite club	484
•	Bio-fuel potential	484
•	Build interception capabilities without 'hindering' growth	484
•	INS Vindhyagiri, stuck with ammunition, to be destroyed	485
•	GSLV Mk-III launch in 2014: VSSC chief	485
•	Tuberculosis declared notifiable disease	485
•	India likely to withdraw from South China Sea	486
•	ISAC	486
•	India's proposal for government control of Internet to be discussed	486
•	India overtakes China in arms import	487
•	Slowly but surely the Web warms up to new protocol	487
•	India's resolution on mental health adopted at World Health Assembly	488
•	New Telecom Policy seeks to abolish roaming charges	489
•	Dragon leaves space station for journey home	490
•	Zinc supplement can reduce infant deaths	490
•	Indian scientists in team that sequenced tomato genome	490
•	U.S. unleashed Stuxnet worm on Iran: leak	491
•	Centre need not consult DTAB before banning drugs, says High Court	491
•	On an urgent note, work on 26 major roads along China border begins	492
•	Single authority oversight for intelligence agencies favoured	492
•	Solar- Powered Plane Makes History	493
•	India Supports Global Fundiing of Health R&D for Poor	493
•	UNICEF report says diarrhoea and pneumonia are top killers of children	494
•	The business of IPv6	494
•	INS Vikramaditya undergoing sea trials	494
•	IAF to acquire 75 Swiss Pilatus trainer aircraft	495
•	Kudankulam atomic power plant getting ready for commissioning	495
•	Footprint of 'God particle' found?	495
•	Elusive particle found, looks like Higgs boson	495
•	Agni-l launch a success	496
•	Asian space powers gear for more moon missions	496
•	Court reassured on storage of spent fuel from reactors	496

Scientists create artificial jellyfish	497
 Bio-hydrogen produced from wastewater, industrial effluents 	497
 Secondary uranium source may go dry soon: IAEA 	498
 Are you ready for UHDTV? 	498
 A device that detects arsenic content in drinking water 	498
Mars rover faces a tricky landing	499
 Key to finding life on Mars lies in the deserts of Chile 	500
 Army Commander reviews joint exercise 	501
 India plans to establish two more missile testing ranges 	501
Prithvi-II missile test, a success	501
 No major health fallout from typical exposure, say studies 	501
Shrinking heat shield of the planet	502
Major uranium deposit found in Rajasthan	502
 Agriculture University develops new wheat varieties 	502
ISRO scores a centum	502
 ISRO exhorts industry to take bigger space bites 	503
World divided, India undecided as 193 nations gear to decide the	503
 A special 'eye' up in the sky to constantly watch over the country 	504
 IAEA safety team to visit Rajasthan plants 	504
 Mars eclipses capture rover's curiosity 	504
HAL delivers Mars satellite structure	504
Services disrupted as INSAT-3E loses crucial 'Earth link'	505
12th Plan priority for rabies control	505
GM crops a threat: experts	506
 Tectonic breakup triggered massive Indian Ocean quake 	506
 Curiosity rover finds ancient riverbed on Mars 	507
Ariane launches GSAT-10 from Kourou	507
 Scientists 'parasitise' virus to develop biological Internet 	507
 India may take the lead in Budapest cyberspace security dialogue 	507
 India gearing up to fight mid-sea threats in Asian region 	508
Ministry, NSA agree on balancing security concerns with freedom	508
 Nuclear-capable Dhanush successfully test-fired 	509
Australia unveils colossal telescope	509
 Physics Nobel for quantum scientists 	509

•	Digital divide widens even as costs drop globally	510
•	HAL signs design contract for Multirole Transport Aircraft	510
•	On Internet rules, India now more willing to say ICANN	510
•	BrahMos gains sub-strategic super weapon capability	511
•	Anti-collision trial of trains successful	511
•	Invar	512
•	Bill to create bank for DNA profiling of accused coming	512
•	New satellite to boost India's remote sensing ability	513
•	Scientists and Farmers groups write to Supreme Court on TEC report on GM Crops	513
•	DRDO to conduct eighth ballistic interceptor missile test this month	514
•	Russia-built multirole stealth frigate INS Tarkash commissioned into Navy	514
•	Centre opposes moratorium on GM field trials	514
•	Army places Rs. 700-crore orders for versatile device	515
•	Rescue of Indian submarines demonstrated at Naval exercise	516
•	Now, coastal vulnerability is classified	516
•	Finger prints	516
•	The safest way for plutonium disposal	517
•	'Consuming plutonium for producing energy is the superior option'	517
•	Two meteorological equators	518
•	X-ray radioactivity	518
•	Large solar telescope operational	519
•	Stem colour Stem colour	519
•	Is curd a probiotics?	519
•	Electromagnets	520
•	Will the new type of oral polio vaccine be effective?	520
•	Human ancestors originated in Asia, not Africa, says study	521
•	A unique observatory to study quakes in Koyna- Warna area	521
•	Red hot metal	522
•	Developing a novel search engine	523
•	Artificial brain with billion connections	523
•	'Green rust' could scrape toxic metals	523
•	What next after a Higgs boson-like particle?	523
•	A bacterium that did not live on arsenic	524
•	World's reefs in rapid decline	524

 An eco-friendly organic LED developed 	525
 Rover: first step to human space programme to Mars 	525
 A new oxidant in the atmosphere identified 	525
 Scientists question a basic conclusion of A-bomb survivors study 	526
 Is there life on Mars? If yes, what will it look like? 	526
Sharp drop in HIV cases in India	527
Challenges of space travel	528
 80 % of human genome has an active role or function 	528
Glaucoma is in the genes, says study	529
 Starting ART early prevents tuberculosis 	529
• C.V. Raman	530
'Super-spreading,' key in dengue transmission	530
Improving yield through ISF management	530
Receptors on cell surfaces sense environment	531
 Methods to measure, manipulate quantum systems 	532
Quantum Computer	533
Optical clocks	533
Efficient way to turn waste into resource	533
BCG: a vaccine for more than just TB	534
Energy physics in toto will make a switch	535
Boron management in cole crops	535
Significance of Martian methane	536
Seas rising 60 % faster than UN forecast	536
Hybrid desalination plant at Kalpakkam	537
Hottest planet cold enough for ice	537
'We'll come to India to build a major experiment'	538
Plants respond to touch	539
NASA to turn asteroid into space station	539
Active research work in organic fertigation	539
 LHC to re-awaken in 2015 with doubled energy, luminosity 	540
Biased, unscientific report on electromagnetic radiation	540
A different kind of experiment at CERN	541
IAEA team finds defects at Rawatbhata	542
Panel bats for aeronautics commission	543

 India, Maldives carry out joint military exercise 	543
 Isro Eyes A 6-Tonne 'K A' Band Satellite 	543
 Defence shipbuilding R&D project on the slow track 	544
 HIV epidemic showing signs of reversal: WHO 	544
 Joint naval exercise with Russia 	544
 Navy gets first of 8 P-8I maritime surveillance aircraft from Boeing 	545
Astra missile test-fired successfully	545
 'Baby picture' of the Universe unveiled 	545
 Ammonium nitrate, after loose imports, falls into rebel hands 	546
K-15 all set to join Arihant	546
 Second stealth frigate from Russia arrives 	546
 Defence Technology Commission expected to be set up soon 	547
NASA's Kepler Space telescope	547
 More Radioactive Water Leaks at Japanese Plant 	547
Liability Rules Leave Very Little Recourse	547
When A Challenge Led To Little Things And A Big Impact	548
New Evidence of Water on Mars	548
Seeking Answers From The Grail	548
• Science	549
Pushing the Boundaries of Magnetic Storage	549
Not Much Of A Sea-Based Deterrent	550
Reading the Rain like Science Fiction	550
Small is Beautiful	550
Talks Less, Text More	550
Going Green, With A Large Side Order Of Mercury	551
Still Sprouting after 32,000 Years	552
Einstein Stands Tall	552
It's A High Five Moment For The Agni	552
Tryst with transiting Venus	553
The Bose in the particle	553
Other Indian contributions	553
A magnificent 100	553
Desirability of nuclear power is the real question	554
India-based Neutrino Observatory (INO)	554
, , , , , , ,	

'Our policy is to reprocess all the fuel put into a nuclear reactor'	555
Setting an example	555
A 'Black Beauty' from Red Planet	556
Work to begin in Ladakh on world's largest solar telescope	556
Multiple-target missiles to redefine warfare	557
Chennai Declaration holds key for antibiotic resistance	557
 Indian firms to supply parts for billion-dollar telescope 	557
Malaria-causing parasite found in Andamans	558
 Anti-radiation missile by DRDO to be ready in 3-5 years 	558
 Home-grown GPS 'Gagan' likely by 2014 	559
 Underwater missile takes off successfully 	559
Safe drinking water	559
 A prime number with 17 m. digits 	560
 Mark-2 to be powered by GE F-414 engine 	560
 2012 DA14 will miss Earth, but it will be a close fly-by 	560
 It was the largest celestial body to hit Earth in 100 years 	561
 Studies confirm cosmic rays originate in the aftermath of exploding stars 	561
 Iron Fist' sets desert sky ablaze 	562
 PSLV-C20 puts SARAL, 6 other satellites in precise orbits 	562
 At last, hideout of dormant TB bacteria found 	563
 DNA as an information storage device 	563
Water from the cold underworld	564
Sixty years of IT in India	564
 Antarctica needs MPAs 	565
Indian role in SKA	566
 Life from the stuff between stars 	566
 A submerged continent found 	567
Getting serious about science	567
Searching for Earth's twin	568
 Archaeology needs support 	568
Sharper Eye On Earth's Waters	569
MCQS for Final Practice	570-583