# **PAPER-II**

COMPUTER SCIENCE	AND AFFLICATIONS
Signature and Name of Invigilator	
1. (Signature)	OMR Sheet No.:
(Name)	(To be filled by the Candidate)
2. (Signature)	Roll No.
	(In figures as per admission card)
(Name)	Roll No
J 8 7 1 4	(In words)
	` ,
Time: 1 <sup>1</sup> / <sub>4</sub> hours]	[Maximum Marks : 100
Number of Pages in this Booklet: 8	Number of Questions in this Booklet: 50
Instructions for the Candidates	परीक्षार्थियों के लिए निर्देश
<ol> <li>Write your roll number in the space provided on the top of this page.</li> <li>This paper consists of fifty multiple-choice type of questions</li> <li>At the commencement of examination, the question bookle will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as below:         <ol> <li>To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accep a booklet without sticker-seal and do not accept an open booklet.</li> <li>Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.</li> <li>After this verification is over, the OMR Sheet Number should be entered on this Test Booklet.</li> </ol> </li> <li>Each item has four alternative responses marked (A), (B), (C)</li> </ol>	<ol> <li>इस पृष्ठ के ऊपर नियत स्थान पर अपना रोल नम्बर लिखिए ।</li> <li>इस प्रश्न-पत्र में पचास बहुविकल्पीय प्रश्न हैं ।</li> <li>परीक्षा प्रारम्भ होने पर, प्रश्न-पुस्तिका आपको दे दी जायेगी । पहले पाँच मिनट आपको प्रश्न-पुस्तिका खोलने तथा उसकी निम्नलिखित जाँच के लिए दिये जायेंगे, जिसकी जाँच आपको अवश्य करनी है :         <ol> <li>प्रश्न-पुस्तिका खोलने के लिए उसके कवर पेज पर लगी कागज की सील को फाड़ लें । खुली हुई या बिना स्टीकर-सील की पुस्तिका स्वीकार न करें ।</li> <li>कवर पृष्ठ पर छपे निर्देशानुसार प्रश्न-पुस्तिका के पृष्ठ तथा प्रश्नों की संख्या को अच्छी तरह चैक कर लें कि ये पूरे हैं । दोषपूर्ण पुस्तिका जिनमें पृष्ठ/प्रश्न कम हों या दुबारा आ गये हों या सीरियल में न हों अर्थात् किसी भी प्रकार की त्रुटिपूर्ण पुस्तिका स्वीकार न करें तथा उसी समय उसे लौटाकर उसके स्थान पर दूसरी सही प्रश्न-पुस्तिका ले लें । इसके लिए आपको पाँच मिनट दिये जायेंगे । उसके बाद न तो आपकी प्रश्न-पुस्तिका वापस ली जायेगी और न ही आपको अतिरिक्त समय दिया जायेगा ।</li> <li>इस जाँच के बाद OMR पत्रक की क्रम संख्या इस प्रश्न-पुस्तिका पर अंकित कर दें ।</li> <li>प्रत्येक प्रश्न के लिए चार उत्तर विकल्प (A), (B), (C) तथा (D) दिये गये हैं । आपको सही उत्तर के वृत्त को पेन से भरकर काला करना है</li> </ol> </li> </ol>
and (D). You have to darken the circle as indicated below or the correct response against each item.  Example: (A) (B) (D) where (C) is the correct response.	उदाहरण : (A) (B) ● (D)         जबिक (C) सही उत्तर है ।         5. प्रश्नों के उत्तर केवल प्रश्न पत्र I के अन्दर दिये गये OMR पत्रक पर ही
5. Your responses to the items are to be indicated in the <b>OMR</b> Sheet given inside the Paper I Booklet only. If you mark at any place other than in the circle in the OMR Sheet, it will not be evaluated.	किसी अन्य स्थान पर उत्तर चिह्नांकित करते हैं, तो उसका मूल्यांकन । नहीं होगा । 6. अन्दर दिये गये निर्देशों को ध्यानपूर्वक पढ़ें ।
<ul><li>6. Read instructions given inside carefully.</li><li>7. Rough Work is to be done in the end of this booklet.</li></ul>	7. कच्चा काम (Rough Work) इस पुस्तिका के अन्तिम पृष्ट पर करें । 8. यदि आप OMR पत्रक पर नियत स्थान के अलावा अपना नाम, रोल
8. If you write your Name, Roll Number, Phone Number or pu any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose you identity, or use abusive language or employ any other unfair means such as change of response by scratching or using white fluid, you will render yourself liable to disqualification	नम्बर, फोन नम्बर या कोई भी ऐसा चिह्न जिससे आपकी पहचान हो सके, अंकित करते हैं अथवा अभद्र भाषा का प्रयोग करते हैं, या कोई अन्य अनुचित साधन का प्रयोग करते हैं, जैसे कि अंकित किये गये उत्तर को मिटाना या सफेद स्याही से बदलना तो परीक्षा के लिये अयोग्य घोषित किये जा सकते हैं।
9. You have to return the test question booklet and Origina OMR Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry origina question booklet and duplicate copy of OMR Sheet or conclusion of examination.	निरीक्षक महोदय को लौटाना आवश्यक है और परीक्षा समाप्ति के बाद उसे अपने साथ परीक्षा भवन से बाहर न लेकर जायें । हालांकि आप परीक्षा समाप्ति पर मूल प्रश्न-पुस्तिका तथा OMR पत्रक की डुप्लीकेट
10. Use only Blue/Black Ball point pen.	11. किसी भी प्रकार का संगणक (कैलकुलेटर) या लाग टेबल आदि का
11. Use of any calculator or log table etc., is prohibited. 12. There is no negative marks for incorrect answers.	प्रयोग वर्जित है । 12. गलत उत्तरों के लिए कोई नकारात्मक अंक नहीं हैं ।
J-87-14	1 P.T.O.

## COMPUTER SCIENCE AND APPLICATIONS Paper – II

**Note:** This paper contains **fifty (50)** objective type questions of **two (2)** marks each. **All** questions are compulsory.

- 1. Infrared signals can be used for short range communication in a closed area using \_\_\_\_ propagation. (A) ground (B) line of sight (C) (D) space 2. A bridge has access to \_ address in the same network. (A) Physical (B) Network (C) Datalink (D) Application
- The minimum frame length for 10 Mbps Ethernet is \_\_\_\_\_ bytes and maximum is \_\_\_\_\_ bytes.
  (A) 64 & 128
  (B) 128 & 1518
  (C) 1518 & 3036
  (D) 64 & 1518
- 4. The bit rate of a signal is 3000 bps. If each signal unit carries 6 bits, the baud rate of the signal is \_\_\_\_\_.
  - (A) 500 baud/sec
  - (B) 1000 baud/sec
  - (C) 3000 baud/sec
  - (D) 18000 baud/sec.
- **5.** Match the following :

## List – I List – II

- a. Physical layer
- i. Allow resources to network access
- b. Datalink ii. Move packets from layer one destination to other
- c. Network layerd. Transport
- iii. Process to process message delivery
- layer

а

iv. Transmission of bit streamv. Formation of

d

e. Application v. Formation Caper frames

#### **Codes:**

	ч	U	·	u	·
(A)	iv	V	ii	iii	i
(B)	$\mathbf{v}$	iv	i	ii	iii
(C)	i	iii	ii	V	iv
(D)	i	ii	iv	iii	V

h

- 6. A grammar G is LL(1) if and only if the following conditions hold for two distinct productions  $A \rightarrow \alpha \mid \beta$ 
  - I. First  $(\alpha) \cap \text{First } (\beta) \neq \{a\}$  where a is some terminal symbol of the grammar.
  - II. First  $(\alpha) \cap \text{First } (\beta) \neq \lambda$
  - III. First  $(\alpha) \cap \text{Follow } (A) = \phi \text{ if } \lambda \in \text{First } (\beta)$
  - (A) I and II (B)
    - (B) I and III
  - (C) II and III
- (D) I, II and III
- **7.** Which of the following suffices to convert an arbitrary CFG to an LL(1) grammar?
  - (A) Removing left recursion alone
  - (B) Removing the grammar alone
  - (C) Removing left recursion and factoring the grammar
  - (D) None of the above
- **8.** A shift reduce parser suffers from
  - (A) shift reduce conflict only
  - (B) reduce reduce conflict only
  - (C) both shift reduce conflict and reduce reduce conflict
  - (D) shift handle and reduce handle conflicts
- 9. The context free grammar for the language  $L = \{a^n b^m c^k \mid k = |n m|, n \ge 0, m \ge 0, k \ge 0\}$  is
  - $$\begin{split} (A) \quad S &\rightarrow S_1 S_3, \ S_1 \rightarrow a S_1 c + S_2 | \ \lambda, \\ S_2 &\rightarrow a S_2 b | \lambda, S_3 \rightarrow a S_3 b | \ S_4 + \lambda, \\ S_4 &\rightarrow b S_4 c | \lambda \end{split}$$
  - $$\begin{split} \text{(B)} \quad & \text{S} \quad \rightarrow \quad \text{S}_1 \text{S}_3, \quad \text{S}_1 \rightarrow \quad \text{aS}_1 \text{S}_2 \text{c} \quad \mid \; \lambda, \\ & \text{S}_2 \quad \rightarrow \quad \text{aS}_2 \text{bl}\lambda, \, \text{S}_3 \quad \rightarrow \quad \text{aS}_3 \text{bl} \quad \text{S}_4 \quad \mid \lambda, \\ & \text{S}_4 \rightarrow \text{bS}_4 \text{cl}\lambda \end{split}$$
  - $$\begin{split} \text{(C)} \quad & S \ \rightarrow \ S_1 | S_2, \ S_1 \rightarrow \ a S_1 S_2 c \ | \ \lambda, \\ & S_2 \rightarrow a S_2 b \ | \ \lambda, \ S_3 \rightarrow a S_3 b \ | \ S_4 \ | \lambda, \\ & S_4 \rightarrow b S_4 c | \lambda \end{split}$$
  - $$\begin{split} \text{(D)} \quad & S \, \rightarrow \, S_1 \, \mid \, S_3, \, \, S_1 \! \rightarrow \, a S_1 c | S_2 \, \mid \, \lambda, \\ & S_2 \rightarrow a S_2 b \, | \, \lambda, \, S_3 \rightarrow a \, S_3 b | \, S_4 \, | \, \lambda, \\ & S_4 \rightarrow b S_4 c \, | \, \lambda \end{split}$$

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- 10. The regular grammar for the language  $L = \{w|n_a(w) \text{ and } n_b(w) \text{ are both even,} \\ w \in \{a, b\}^*\} \text{ is given by :}$ 
  - (Assume, p, q, r and s are states)
  - (A)  $p \rightarrow aq \mid br \mid \lambda, q \rightarrow bs \mid ap$   $r \rightarrow as \mid bp, s \rightarrow ar \mid bq, p \text{ and } s$ are initial and final states.
  - (B)  $p \rightarrow aq \mid br, q \rightarrow bs \mid ap$   $r \rightarrow as \mid bp, s \rightarrow ar \mid bq, p and s$ are initial and final states.
  - (C)  $p \rightarrow aq \mid br \mid \lambda, q \rightarrow bs \mid ap$   $r \rightarrow as \mid bp, s \rightarrow ar \mid bq$ p is both initial and final states.
  - (D)  $p \rightarrow aq \mid br, q \rightarrow bs \mid ap$   $r \rightarrow as \mid bp, s \rightarrow ar \mid bq$ p is both initial and final states.
- 11. KPA in CMM stands for
  - (A) Key Process Area
  - (B) Key Product Area
  - (C) Key Principal Area
  - (D) Key Performance Area
- **12.** Which one of the following is not a risk management technique for managing the risk due to unrealistic schedules and budgets?
  - (A) Detailed multi source cost and schedule estimation.
  - (B) Design cost
  - (C) Incremental development
  - (D) Information hiding
- of a system is the structure or structures of the system which comprise software elements, the externally visible properties of these elements and the relationship amongst them.
  - (A) Software construction
  - (B) Software evolution
  - (C) Software architecture
  - (D) Software reuse
- **14.** In function point analysis, the number of complexity adjustment factors is
  - (A) 10
- (B) 12
- (C) 14
- (D) 20

- **15.** Regression testing is primarily related to
  - (A) Functional testing
  - (B) Development testing
  - (C) Data flow testing
  - (D) Maintenance testing
- **16.** How many different truth tables of the compound propositions are there that involve the propositions p & q?
  - (A) 2
- (B) 4
- (C) 8
- (D) 16
- **17.** A Boolean function F is called self-dual if and only if

$$F(x_1, x_2, \dots x_n) = F(\overline{x}_1, \overline{x}_2, \dots \overline{x}_n)$$

How many Boolean functions of degree n are self-dual?

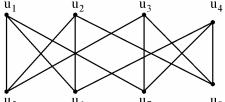
- (A)  $2^n$
- (B)  $(2)^{2^{n}}$
- (C)  $(2)^{n^2}$
- (D)  $(2)^{2^{n-}}$
- **18.** Which of the following statement(s) is (are) not correct?
  - i. The 2's complement of 0 is 0.
  - ii. In 2's complement, the left most bit cannot be used to express a quantity.
  - iii. For an n-bit word (2's complement) which includes the sign bit, there are  $2^{n-1}$  positive integers,  $2^{n+1}$  negative integers and one 0 for a total of  $2^n$  unique states.
  - iv. In 2's complement the significant information is contained in the 1's of positive numbers and 0's of the negative numbers.
  - (A) i & iv
- (B) i & ii
- (C) iii
- (D) iv
- 19. The notation  $\exists !xP(x)$  denotes the proposition "there exists a unique x such that P(x) is true".

Give the truth values of the following statements:

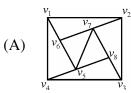
- I.  $\exists !xP(x) \rightarrow \exists xP(x)$
- II.  $\exists !x \neg P(x) \rightarrow \neg \forall x P(x)$
- (A) Both I & II are true.
- (B) Both I & II are false.
- (C) I false, II true
- (D) I true, II false

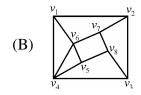
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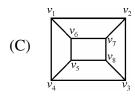
- **20.** Give a compound proposition involving propositions p, q and r that is true when exactly two of p, q and r are true and is false otherwise.
  - (A)  $(p \lor q \land \neg r) \land (p \land \neg q \land r) \land (\neg p \land q \land r)$
  - (B)  $(p \land q \land \neg r) \land (p \lor q \land \neg r) \land (\neg p \land q \land r)$
  - (C)  $(p \land q \land \neg r) \lor (p \land \neg q \land r) \land (\neg p \land q \land r)$
  - (D)  $(p \land q \land \neg r) \lor (p \land \neg q \land r) \lor (\neg p \land q \land r)$
- 21. Consider the graph given below as:

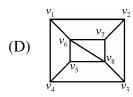


Which one of the following graph is isomorphic to the above graph?









- 22. The upper bound and lower bound for the number of leaves in a B-tree of degree K with height h is given by:
  - (A)  $K^h$  and  $2 \lceil K / 2 \rceil^{h-1}$
  - (B)  $K*h \text{ and } 2 \lfloor K/2 \rfloor^{h-1}$
  - (C)  $K^h$  and  $2\lfloor K/2 \rfloor^{h-1}$
  - (D) K\*h and  $2^{\lceil K/2 \rceil}^{h-1}$

- 23. Consider a complete bipartite graph  $k_{m,n}$ . For which values of m and n does this, complete graph have a Hamilton circuit
  - (A) m = 3, n = 2 (B) m = 2, n = 3
  - (C)  $m = n \ge 2$  (D)  $m = n \ge 3$
- **24.** Big-O estimates for the factorial function and the logarithm of the factorial function i.e. n! and log n! is given by
  - (A) O(n!) and O(n log n)
  - (B)  $O(n^n)$  and  $O(n \log n)$
  - (C) O(n!) and O(log n!)
  - (D)  $O(n^n)$  and  $O(\log n!)$
- **25.** How many cards must be chosen from a deck to guarantee that atleast
  - i. two aces of two kinds are chosen.
  - ii. two aces are chosen.
  - iii. two cards of the same kind are chosen.
  - iv. two cards of two different kinds are chosen.
  - (A) 50, 50, 14, 5 (B) 51, 51, 15, 7
  - (C) 52, 52, 14, 5 (D) 51, 51, 14, 5
- **26.** Match the following with respect to the mobile computing technologies :

List – I

a. GPRS

i. An integrated digital radio standard

b. GSM ii. 3G wireless/Mobile technology

c. UMTS iii. Nine different schemes for modulation and error correction

d. EDGE iv. An emerging wireless service that offers a mobile data

#### **Codes:**

a b c d (A) iii iv ii i

(B) iv i ii iii (C) ii iii iv i

(D) ii i iv iii

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- 27. Object Request Broker (ORB) is
  - A software program that runs on the client as well as on the application server.
  - II. A software program that runs on the client side only.
  - III. A software program that runs on the application server, where most of the components reside.
  - I, II & III (A)
- (B) I & II
- (C) II & III
- (D) I only
- 28. A software agent is defined as
  - developed software for accomplishing a given task.
  - A computer program which is capable of acting on behalf of the II. user in order to accomplish a given computational task.
  - An open source software for III. accomplishing a given task.
  - (A)
  - (B) II
  - (C) III
  - (D) All of the above
- 29. Match the following:

	List – I	_	List – II
a.	Classification	i.	Principal
			component
			analysis

- b. Clustering ii. Branch and Bound
- c. Feature Extraction
- iii. K-nearest
- d. Feature
- neighbour iv. K-means
- Selection
- Codes:

	a	b	c	d
(A)	iii	iv	ii	i
(B)	iv	iii	i	ii
(C)	iii	iv	i	ii
(D)	iv	iii	ii	i

- **30.** SET, an open encryption and security specification model that is designed for protecting credit card transactions on the internet, stands for
  - Secure Electronic Transaction (A)
  - (B) Secular Enterprise for Transaction
  - (C) Security Electronic Transmission

  - (D) Secured Electronic Termination
- 31. In a paged memory management algorithm, the hit ratio is 70%. If it takes 30 nanoseconds to search Translation Look-aside Buffer (TLB) and 100 nanoseconds (ns) to access memory, the effective memory access time is
  - (A) 91 ns
- (B) 69 ns
- (C) 200 ns
- (D) 160 ns

**32.** Match the following:

## List – I a. Multilevel

- List II i. Time-slicing
- feedback queue b. FCFS
- ii. Criteria to move processes between queues
- c. Shortest process next
- iii. Batch processing
- d. Round scheduling
- robin iv. Exponential smoothening

## **Codes:**

- d (A) iii ii iv i (B) iv iii ii i i (C) iii iv i
- (D) ii iv
- 33. Consider a system with five processes P<sub>0</sub> through P<sub>4</sub> and three resource types  $R_1$ ,  $R_2$  and  $R_3$ . Resource type  $R_1$  has 10 instances, R<sub>2</sub> has 5 instances and R<sub>3</sub> has 7 instances. Suppose that at time  $T_0$ , the following snapshot of the system has been taken:

	Allocation			
	$\mathbf{R_1}$	$R_2$	$R_3$	
$\mathbf{P_0}$	0	1	0	
$\mathbf{P}_{1}$	2	0	0	
$\mathbf{P}_{2}$	3	0	2	
$\overline{P_3}$	2	1	1	
$P_4$	0	2	2	

	Max	
$\mathbf{R_1}$	$R_2$	$R_3$
7	5 2	3
3 9	2	2
	0	2
2	2	2 2
4	3	3
	Available	

 $\mathbf{R}_{2}$  $\mathbf{R_1}$  $R_3$ 3

Assume that now the process  $P_1$  requests one additional instance of type  $R_1$  and two instances of resource type  $R_3$ . The state resulting after this allocation will be Safe state Ready state (A) (B)

- (C)Blocked state (D)
  - Unsafe state

## **34.** Match the following:

#### List – I

## List - II

- a. Contiguous allocation
- i. This scheme supports very large file sizes.
- b. Linked allocation
- ii. This allocation technique supports only sequential files.
- c. Indexed allocation
- iii. Number of disks required to access file is minimal.
- d. Multi-level indexed
- iv. This technique suffers from maximum wastage of space in storing pointers.

#### **Codes:**

	a	b	c	d
(A)	iii	iv	ii	i
(B)	iii	ii	iv	i
(C)	i	ii	iv	iii
(D)	i	iv	ii	iii

- **35.** Which of the following commands will output "onetwothree"?
  - (A) for val; do echo-n \$val; done < one two three
  - (B) for one two three; do echo-n-; done
  - (C) for n in one two three; do echo-n \$n; done
  - (D) for n in one two three  $\{echo -n \ n\}$
- **36.** Mergesort makes two recursive calls. Which statement is true after these two recursive calls finish, but before the merge step?
  - (A) The array elements form a heap.
  - (B) Elements in each half of the array are sorted amongst themselves.
  - (C) Elements in the first half of the array are less than or equal to elements in second half of the array.
  - (D) All of the above
- 37. A text is made up of the characters  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$  and  $\sigma$  with the probability 0.12, 0.40, 0.15, 0.08 and 0.25 respectively. The optimal coding technique will have the average length of
  - (A) 1.7
- (B) 2.15
- (C) 3.4
- (D) 3.8

- 38. Searching for an element in the hash table requires O(1) time for the \_\_\_\_\_ time, whereas for direct addressing it holds for the \_\_\_\_\_ time.
  - (A) worst-case, average
  - (B) worst-case, worst-case
  - (C) average, worst-case
  - (D) best, average
- 39. An algorithm is made up of 2 modules M<sub>1</sub> and M<sub>2</sub>. If time complexity of modules M<sub>1</sub> and M<sub>2</sub> are h(n) and g(n) respectively, the time complexity of the algorithm is
  - (A)  $\min (h(n), g(n))$
  - (B)  $\max (h(n), g(n))$
  - (C) h(n) + g(n)
  - (D) h(n) \* g(n)
- **40.** What is the maximum number of parenthesis that will appear on the stack at any one time for parenthesis expression given by

  - (A) 2 (B) 3
  - (C) 4 (D) 5

## Match the following: List – I

41.

### List – II

- a. Automatic storage class
- i. Scope of the variable is global.
- b. Register storage class
- ii. Value of the variable persists between different function calls.
- c. Static storage class
- iii. Value stored in memory and local to the block in which the variable is defined.
- d. External iv. Value stored in storage class CPU registers.

### Codes:

	a	b	c	d
(A)	iii	iv	i	ii
(B)	iii	iv	ii	i
(C)	iv	iii	ii	i
(D)	iv	iii	i	ii

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- **42.** When we pass an array as an argument to a function, what actually gets passed?
  - (A) Address of the array
  - (B) Values of the elements of the array
  - (C) Base address of the array
  - (D) Number of elements of the array
- **43.** While (87) printf("computer");

The above C statement will

- (A) print "computer" 87 times
- (B) print "computer" 0 times
- (C) print "computer" 1 times
- (D) print "computer" infinite times
- **44.** A friend function can be used to
  - (A) avoid arguments between classes.
  - (B) allow access to classes whose source code is unavailable.
  - (C) allow one class to access an unrelated class.
  - (D) None of the above
- **45.** Which of the following is the correct value returned to the operating system upon the successful completion of a program?
  - $(A) \quad 0$
  - (B) 1
  - (C) -1
  - (D) Program do not return a value.
- **46.** Manager's salary details are hidden from the employee. This is called as
  - (A) Conceptual level data hiding
  - (B) Physical level data hiding
  - (C) External level data hiding
  - (D) Local level data hiding

- **47.** Which of the following statements is false?
  - (A) Any relation with two attributes is in BCNF.
  - (B) A relation in which every key has only one attribute is in 2NF.
  - (C) A prime attribute can be transitively dependent on a key in 3NF relation.
  - (D) A prime attribute can be transitively dependent on a key in BCNF relation.
- 48. A clustering index is created when
  - (A) primary key is declared and ordered
  - (B) no key ordered
  - (C) foreign key ordered
  - (D) there is no key and no order
- **49.** Let  $R = \{A, B, C, D, E, F\}$  be a relation schema with the following dependencies  $C \rightarrow F, E \rightarrow A, EC \rightarrow D, A \rightarrow B$

Which of the following is a key for R?

- (A) CD
- (B) EC
- (C) AE
- (D) AC
- **50.** Match the following :

List – I List – II

- a. DDL
- i. LOCK TABLE
- b. DML
- ii. COMMIT
- c. TCL
- iii. Natural Difference
- d. BINARY
- iv. REVOKE

iv

- Operation
- Codes:

a b c d

- (A) ii i iii
- (B) i ii iv iii
- (C) iii ii i iv
- (D) iv i ii iii

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Space For Rough Work