

NTA UGC NET AUG 2024 21st Aug to 04th Sep 2024

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Test Date	23/08/2024
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Subject	87 Computer Science and Applications

Section : General Paper

Comprehension:

The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Proportion of passed Students			
	Arts : Science : Commerce	Arts	Science	Commerce
		M : F	M : F	M : F
A	2 : 4 : 5	31 : 14	23 : 27	11 : 7
B	7 : 2 : 4	37 : 33	43 : 32	29 : 21
C	1 : 4 : 2	34 : 16	57 : 43	31 : 29
D	5 : 7 : 4	17 : 13	51 : 33	23 : 17
E	4 : 3 : 8	23 : 17	41 : 34	57 : 23
F	2 : 4 : 3	47 : 28	11 : 7	16 : 11
G	3 : 5 : 4	29 : 21	27 : 24	53 : 47

SubQuestion No : 1

- Q.1** If the number of students who passed in Commerce from City-F is 3240, then the number of students who passed from City-F is _____ % of the number of Science students who passed from City-F.
- (1) 75
 (2) 150
 (3) 180
 (4) 225

Options 1. 1

2. 2
 3. 3
 4. 4

Question Type : MCQ

Question ID : 5330723677

Option 1 ID : 53307214309

Option 2 ID : 53307214310

Option 3 ID : 53307214311

Option 4 ID : 53307214312

Status : Answered

Chosen Option : 2

Comprehension:

The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Arts : Science : Commerce	Proportion of passed Students		
		Arts	Science	Commerce
				M : F
A	2 : 4 : 5	31 : 14	23 : 27	11 : 7
B	7 : 2 : 4	37 : 33	43 : 32	29 : 21
C	1 : 4 : 2	34 : 16	57 : 43	31 : 29
D	5 : 7 : 4	17 : 13	51 : 33	23 : 17
E	4 : 3 : 8	23 : 17	41 : 34	57 : 23
F	2 : 4 : 3	47 : 28	11 : 7	16 : 11
G	3 : 5 : 4	29 : 21	27 : 24	53 : 47

SubQuestion No : 2

- Q.2** If the number of females who passed in Arts from City-C is 768, then the number of males who passed in Commerce from City-C is approximately _____% of the number of students who passed from City-C.
- (1) 14.76
 (2) 18.24
 (3) 27.8
 (4) 32.5

Options 1. 1

2. 2
 3. 3
 4. 4

Question Type : MCQ
 Question ID : 5330723678
 Option 1 ID : 53307214313
 Option 2 ID : 53307214314
 Option 3 ID : 53307214315
 Option 4 ID : 53307214316
 Status : Answered
 Chosen Option : 3

Comprehension:

The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Arts : Science : Commerce	Proportion of passed Students		
		Arts	Science	Commerce
				M : F
A	2 : 4 : 5	31 : 14	23 : 27	11 : 7
B	7 : 2 : 4	37 : 33	43 : 32	29 : 21
C	1 : 4 : 2	34 : 16	57 : 43	31 : 29
D	5 : 7 : 4	17 : 13	51 : 33	23 : 17
E	4 : 3 : 8	23 : 17	41 : 34	57 : 23
F	2 : 4 : 3	47 : 28	11 : 7	16 : 11
G	3 : 5 : 4	29 : 21	27 : 24	53 : 47

SubQuestion No : 3

- Q.3** If the number of males who passed in Commerce from City-G is 2544, then what is the number of students who passed in Arts from City-G ?

- (1) 3600
- (2) 4200
- (3) 4800
- (4) 3400

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723675

Option 1 ID : 53307214301

Option 2 ID : 53307214302

Option 3 ID : 53307214303

Option 4 ID : 53307214304

Status : Answered

Chosen Option : 1

Comprehension:

The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Arts : Science : Commerce	Proportion of passed Students		
		Arts	Science	Commerce
				M : F
A	2 : 4 : 5	31 : 14	23 : 27	11 : 7
B	7 : 2 : 4	37 : 33	43 : 32	29 : 21
C	1 : 4 : 2	34 : 16	57 : 43	31 : 29
D	5 : 7 : 4	17 : 13	51 : 33	23 : 17
E	4 : 3 : 8	23 : 17	41 : 34	57 : 23
F	2 : 4 : 3	47 : 28	11 : 7	16 : 11
G	3 : 5 : 4	29 : 21	27 : 24	53 : 47

SubQuestion No : 4

- Q.4** The number of males who passed in Commerce from City-F is approximately _____ % more than the number of females who passed in Commerce from City-F.

- (1) 31.25
- (2) 47.47
- (3) 45.45
- (4) 42.67

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723679

Option 1 ID : 53307214317

Option 2 ID : 53307214318

Option 3 ID : 53307214319

Option 4 ID : 53307214320

Status : Answered

Chosen Option : 1

Comprehension:

The following table shows the proportion of students passed in three different Graduation Streams, namely, Arts, Science and Commerce, from seven different cities A-G, along with the ratio of Males (M) to Females (F) for the three streams among the students. Based on the data in the table, answer the questions that follow.

City-wise details of Graduating students

City	Arts : Science : Commerce	Proportion of passed Students		
		Arts	Science	Commerce
				M : F
A	2 : 4 : 5	31 : 14	23 : 27	11 : 7
B	7 : 2 : 4	37 : 33	43 : 32	29 : 21
C	1 : 4 : 2	34 : 16	57 : 43	31 : 29
D	5 : 7 : 4	17 : 13	51 : 33	23 : 17
E	4 : 3 : 8	23 : 17	41 : 34	57 : 23
F	2 : 4 : 3	47 : 28	11 : 7	16 : 11
G	3 : 5 : 4	29 : 21	27 : 24	53 : 47

SubQuestion No : 5

- Q.5** For City-A, if the total number of males who passed in Arts is 2480, then what is the difference between the number of students who passed in Commerce and that in Science ?

- (1) 600
- (2) 1000
- (3) 1400
- (4) 1800

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723676

Option 1 ID : 53307214305

Option 2 ID : 53307214306

Option 3 ID : 53307214307

Option 4 ID : 53307214308

Status : Answered

Chosen Option : 4

- Q.6** If $(L)_M$ represents a number L in base-M number system, then what will be the value of $(107)_{16} + (257)_{16}$?

- (1) $(762)_{10}$
- (2) $(862)_{10}$
- (3) $(962)_{10}$
- (4) $(662)_{10}$

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723705

Option 1 ID : 53307214421

Option 2 ID : 53307214422

Option 3 ID : 53307214423

Option 4 ID : 53307214424

Status : Answered

Chosen Option : 2

Q.7

Match List - I with List - II.

List - I (Type of variable)	List - II (Example)
(A) Nominal	(I) Satisfaction level
(B) Ordinal	(II) Weight
(C) Interval	(III) Ethnicity
(D) Ratio	(IV) Year of death

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (3) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **5330723689**
 Option 1 ID : **53307214357**
 Option 2 ID : **53307214358**
 Option 3 ID : **53307214359**
 Option 4 ID : **53307214360**
 Status : **Answered**
 Chosen Option : **4**

Q.8

Which of the following criteria in research relates mainly to the issue of causality ?

- (1) Transferability
- (2) Measurement validity
- (3) External validity
- (4) Internal validity

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **5330723686**
 Option 1 ID : **53307214345**
 Option 2 ID : **53307214346**
 Option 3 ID : **53307214347**
 Option 4 ID : **53307214348**
 Status : **Answered**
 Chosen Option : **4**

Q.9 In a race of 500 m run, A beats B by 20 m and C by 80 m. If B and C are running another race of 100 m with exactly same speed as before, then by how many meters will B beat C ?

- (1) 10.0 m
- (2) 8.5 m
- (3) 15.0 m
- (4) 12.5 m

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723696

Option 1 ID : 53307214385

Option 2 ID : 53307214386

Option 3 ID : 53307214387

Option 4 ID : 53307214388

Status : Answered

Chosen Option : 3

Q.10 Arrange the following fractions in increasing order :

(A) $\frac{12}{17}$

(B) $\frac{13}{19}$

(C) $\frac{8}{11}$

(D) $\frac{16}{23}$

Choose the **correct** answer from the options given below :

- (1) (B), (D), (A), (C)
- (2) (B), (A), (C), (D)
- (3) (D), (A), (B), (C)
- (4) (D), (B), (C), (A)

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723697

Option 1 ID : 53307214389

Option 2 ID : 53307214390

Option 3 ID : 53307214391

Option 4 ID : 53307214392

Status : Answered

Chosen Option : 1

Q.11 Match List - I with List - II.

List - I (Applications)	List - II (Communication term)
(A) Interviews	(I) Group Communication
(B) Newspaper	(II) Intrapersonal Communication
(C) Classroom	(III) Interpersonal Communication
(D) Meditation	(IV) Mass Communication

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (2) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **5330723694**
 Option 1 ID : **53307214377**
 Option 2 ID : **53307214378**
 Option 3 ID : **53307214379**
 Option 4 ID : **53307214380**
 Status : **Answered**
 Chosen Option : **4**

Q.12 What among the following can be ascribed to learning styles ?

- (A) It is a way 'how' the student learns
- (B) They are strengths and preferences of the learners for responding to the stimuli in the environment
- (C) It is 'What' the learner learns
- (D) It is a behavioural pattern developed for any new learning

Choose the **correct** answer from the options given below :

- (1) (A) and (B) only
- (2) (A) and (C) only
- (3) (A), (B), and (D) only
- (4) (B), (C), and (D) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **5330723682**
 Option 1 ID : **53307214329**
 Option 2 ID : **53307214330**
 Option 3 ID : **53307214331**
 Option 4 ID : **53307214332**
 Status : **Answered**
 Chosen Option : **3**

Q.13 Three major actions in the process of Communication are :

- (A) Receiving
- (B) Sending
- (C) Reviewing
- (D) Interpreting
- (E) Analysing

Choose the **correct** answer from the options given below :

- (1) (C), (D) and (E) only
- (2) (A), (C) and (D) only
- (3) (A), (B) and (D) only
- (4) (A), (D) and (E) only

Options

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723693

Option 1 ID : 53307214373

Option 2 ID : 53307214374

Option 3 ID : 53307214375

Option 4 ID : 53307214376

Status : Answered

Chosen Option : 3

Q.14 Match List - I with List - II.

List - I (Internet Term)	List - II (Description)
(A) Blogs	(I) Allows users to create and edit web pages using a browser
(B) Podcasts	(II) A type of bookmarking where a user "marks" a webpage or photo using text to describe its contents
(C) Tagging	(III) A series of digital media files
(D) Wikis	(IV) Personal internet journals

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Options

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723709

Option 1 ID : 53307214437

Option 2 ID : 53307214438

Option 3 ID : 53307214439

Option 4 ID : 53307214440

Status : Answered

Chosen Option : 2

Q.15 To record voice narration for your Microsoft PowerPoint presentation, your computer must have :

- (A) Sound card
- (B) An internet connection
- (C) Speakers
- (D) An external video port
- (E) Microphone

Choose the **correct** answer from the options given below :

- (1) (A), (C) and (E) only
- (2) (B) and (D) only
- (3) (A) and (E) only
- (4) (B), (C) and (D) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723708**

Option 1 ID : **53307214433**

Option 2 ID : **53307214434**

Option 3 ID : **53307214435**

Option 4 ID : **53307214436**

Status : **Answered**

Chosen Option : **3**

Q.16 Which among the following fuels produces least amount of soot particles during combustion ?

- (1) Petrol
- (2) Kerosene
- (3) Diesel
- (4) Compressed Natural Gas (CNG)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723711**

Option 1 ID : **53307214445**

Option 2 ID : **53307214446**

Option 3 ID : **53307214447**

Option 4 ID : **53307214448**

Status : **Answered**

Chosen Option : **4**

Q.17 Identify the numbers that occur in the series 1, 7, 17, 31, 49,

- (A) 74
- (B) 95
- (C) 97
- (D) 127
- (E) 161

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) only
- (2) (C), (D), (E) only
- (3) (E), (B), (A) only
- (4) (C), (D), (B) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723698

Option 1 ID : 53307214393

Option 2 ID : 53307214394

Option 3 ID : 53307214395

Option 4 ID : 53307214396

Status : Marked For Review

Chosen Option : 2

Q.18 What among the following is incorrect about SWAYAM Prabha ?

- (1) It was launched by Sri Abul Kalam Azad.
- (2) Satellite is used for telecasting the educational contents through DTH channels.
- (3) The web portal of SWAYAM Prabha is maintained by INFLIBNET, Gujarat.
- (4) The contents for SWAYAM Prabha are provided by NPTEL, IITs, UGC, CEC and IGNOU.

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723684

Option 1 ID : 53307214337

Option 2 ID : 53307214338

Option 3 ID : 53307214339

Option 4 ID : 53307214340

Status : Answered

Chosen Option : 1

Q.19 Which of the following universities were set up in 1916 ?

- (A) Osmania University
- (B) S.N.D.T Women's University
- (C) Mysore University
- (D) Patna University
- (E) Benaras Hindu University

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (B), (C) and (E) only
- (3) (B), (C) and (D) only
- (4) (A), (D) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723716

Option 1 ID : 53307214465

Option 2 ID : 53307214466

Option 3 ID : 53307214467

Option 4 ID : 53307214468

Status : Answered

Chosen Option : 2

Q.20 Which is the first newspaper published in India in modern times ?

- (1) Hickey's Bengal Gazette
- (2) India Gazette
- (3) Samvad Kaumudi
- (4) Udant Martand

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723690

Option 1 ID : 53307214361

Option 2 ID : 53307214362

Option 3 ID : 53307214363

Option 4 ID : 53307214364

Status : Answered

Chosen Option : 3

Q.21 A person sold an item at a loss of 7%. Had he sold the item at a gain of 7.5%, he would have received Rs. 87 more than his selling price. The cost price of the item is :

- (1) Rs. 500
- (2) Rs. 550
- (3) Rs. 600
- (4) Rs. 650

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723695

Option 1 ID : 53307214381

Option 2 ID : 53307214382

Option 3 ID : 53307214383

Option 4 ID : 53307214384

Status : Marked For Review

Chosen Option : 2

Q.22 Match List - I with List - II.

List - I

(Types of Teaching)

- | | |
|--------------------------|--|
| (A) Macro teaching | (I) A teaching technique especially used in teacher's pre-service education to train them systematically |
| (B) Micro teaching | (II) An approach where the educators divide the content among themselves and students sit with one educator before moving to the other |
| (C) Station teaching | (III) A situation in a classroom where two teachers work on a class together |
| (D) Cooperative teaching | (IV) When a teacher provides instruction to the entire class at one time for an extended period of time |

List - II

(Description)

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (2) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
- (3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723681

Option 1 ID : 53307214325

Option 2 ID : 53307214326

Option 3 ID : 53307214327

Option 4 ID : 53307214328

Status : Answered

Chosen Option : 3

Q.23 According to UGC regulations 2018 on plagiarism, which of the following similarities constitute Level - 1 plagiarism ?

- (A) 12%
- (B) 42%
- (C) 28%
- (D) 56%
- (E) 37%

Choose the **most appropriate** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (B), (C) and (D) only
- (3) (A), (C) and (E) only
- (4) (B), (C) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723688**

Option 1 ID : **53307214353**

Option 2 ID : **53307214354**

Option 3 ID : **53307214355**

Option 4 ID : **53307214356**

Status : **Answered**

Chosen Option : **3**

Q.24 निम्नलिखित में युक्ति के पैटर्न की पहचान करें “आदतें केबल के समान होती हैं। हम प्रतिदिन इसका तन्तु बुनते हैं और इसे शीघ्र तोड़ा नहीं जा सकता” :

- (1) कारणात्मक युक्ति
- (2) साटूश्यता से युक्ति
- (3) प्राधिकार से युक्ति
- (4) परिभाषा से युक्ति

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723700**

Option 1 ID : **53307214401**

Option 2 ID : **53307214402**

Option 3 ID : **53307214403**

Option 4 ID : **53307214404**

Status : **Answered**

Chosen Option : **1**

Q.25 Which of the following is known as "One Nation One Student ID" card ?

- (1) Aadhar card
- (2) Pan card
- (3) APAAR card
- (4) Voter's ID card

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723718

Option 1 ID : 53307214473

Option 2 ID : 53307214474

Option 3 ID : 53307214475

Option 4 ID : 53307214476

Status : Answered

Chosen Option : 3

Q.26 Identify the correct order of the following major technological changes A-D in the development of computers based on first to fourth generation of computers :

- (A) Transistors
- (B) Microprocessor
- (C) Vacuum tubes
- (D) Integrated circuits

Choose the **correct** answer from the options given below :

- (1) (A), (C), (D), (B)
- (2) (B), (A), (C), (D)
- (3) (D), (A), (C), (B)
- (4) (C), (A), (D), (B)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723707

Option 1 ID : 53307214429

Option 2 ID : 53307214430

Option 3 ID : 53307214431

Option 4 ID : 53307214432

Status : Answered

Chosen Option : 4

Q.27 Match List - I with List - II.

List - I	List - II
(International Treaties)	(Key Objectives)
(A) Sendai Framework	(I) Equality between men and women
(B) Monterrey Consensus	(II) Our common future
(C) Beijing Declaration	(III) Disaster Risk Reduction
(D) Brundtland Report	(IV) Financing for development

Choose the **correct** answer from the options given below :

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723714**

Option 1 ID : **53307214457**

Option 2 ID : **53307214458**

Option 3 ID : **53307214459**

Option 4 ID : **53307214460**

Status : **Answered**

Chosen Option : **4**

Q.28 What can be inferred correctly from the following ? "No musicians are Greeks. All traders are Musicians. Therefore, no traders are Greeks"

- (A) It represents figure II of the syllogistic argument
- (B) It is an EAE mood
- (C) The term 'Greeks' is the major term
- (D) The minor term of the conclusion is distributed
- (E) The middle term is undistributed

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (B), (C) and (D) only
- (3) (D) and (E) only
- (4) (A), (C) and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723702**

Option 1 ID : **53307214409**

Option 2 ID : **53307214410**

Option 3 ID : **53307214411**

Option 4 ID : **53307214412**

Status : **Answered**

Chosen Option : **2**

Q.29 Arrange the following ancient Indian Institutes from East to West direction.

- (A) Takshashila
- (B) Nalanda
- (C) Vikramshila
- (D) Shardaapeeth

Choose the **correct** answer from the options given below :

- (1) (A), (D), (C), (B)
- (2) (B), (C), (A), (D)
- (3) (D), (A), (B), (C)
- (4) (C), (B), (D), (A)

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723715**

Option 1 ID : **53307214461**

Option 2 ID : **53307214462**

Option 3 ID : **53307214463**

Option 4 ID : **53307214464**

Status : **Answered**

Chosen Option : **1**

Q.30 Eye irritation is the common phenomenon during smog. It is mostly caused by :

- (A) Formaldehyde
- (B) Per-oxy acetyl Nitrate
- (C) Ozone
- (D) Acrolin

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) only
- (2) (A), (B) and (D) only
- (3) (C), (D) and (A) only
- (4) (B), (C) and (D) only

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723713**

Option 1 ID : **53307214453**

Option 2 ID : **53307214454**

Option 3 ID : **53307214455**

Option 4 ID : **53307214456**

Status : **Answered**

Chosen Option : **2**

Q.31 In computer networking, an IP version-6 is _____ times larger than an IP version-4 address.

- (1) 2
- (2) 4
- (3) 6
- (4) 8

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723706**

Option 1 ID : **53307214425**

Option 2 ID : **53307214426**

Option 3 ID : **53307214427**

Option 4 ID : **53307214428**

Status : **Answered**

Chosen Option : **2**

Q.32 What among the following can be correctly claimed in the light of 'Assessment Rubrics' ?

- (A) A tool used to interpret and grade students on the basis of some criterion.
- (B) A means to increase subjective evaluation by the evaluator.
- (C) It ensures transparency and fairness in the marking process.
- (D) It provides an opportunity to set arbitrary standards and guidelines for moderation.
- (E) It is an innovative evaluation system.

Choose the **correct** answer from the options given below :

- (1) (A), (C), and (D) only
- (2) (A), (B) and (C) only
- (3) (C), (D), and (E) only
- (4) (A), (C), and (E) only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723680**

Option 1 ID : **53307214321**

Option 2 ID : **53307214322**

Option 3 ID : **53307214323**

Option 4 ID : **53307214324**

Status : **Answered**

Chosen Option : **4**

Q.33

Arrange the '5 Ws' of communication in proper sequence :

- (A) Why
- (B) When
- (C) What
- (D) Who
- (E) Where

Choose the **correct** answer from the options given below :

- (1) (C), (D), (E), (B) and (A)
- (2) (E), (D), (B), (C) and (A)
- (3) (A), (B), (C), (D) and (E)
- (4) (B), (A), (C), (D) and (E)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**Question ID : **5330723692**Option 1 ID : **53307214369**Option 2 ID : **53307214370**Option 3 ID : **53307214371**Option 4 ID : **53307214372**Status : **Answered**Chosen Option : **1****Q.34**

The amount of biomass produced by the plants through photosynthesis minus respiration losses in a given time period is known as :

- (1) Gross Primary Productivity
- (2) Net Primary Productivity
- (3) Gross Ecological Productivity
- (4) Net Secondary Productivity

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**Question ID : **5330723710**Option 1 ID : **53307214441**Option 2 ID : **53307214442**Option 3 ID : **53307214443**Option 4 ID : **53307214444**Status : **Answered**Chosen Option : **2**

Q.35 Match List - I with List - II.

List - I	List - II
(Constitutional Provision of Education)	(Article)
(A) Women's Education	(I) 28
(B) Education of Minorities	(II) 21-A
(C) Secular Education	(III) 15 (Part-II)
(D) Right to Education	(IV) 29 (Part-III)

Choose the **correct** answer from the options given below :

- (1) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (2) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (3) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (4) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723717**

Option 1 ID : **53307214469**

Option 2 ID : **53307214470**

Option 3 ID : **53307214471**

Option 4 ID : **53307214472**

Status : **Answered**

Chosen Option : **1**

Q.36 Which of the following can not be treated as the folk tradition of communication in India ?

- (1) Cinema
- (2) Jatra
- (3) Ramleela
- (4) Kumbh Mela

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723691**

Option 1 ID : **53307214365**

Option 2 ID : **53307214366**

Option 3 ID : **53307214367**

Option 4 ID : **53307214368**

Status : **Answered**

Chosen Option : **1**

- Q.37** A researcher decides to tell participants something false about a research session in order to mislead them. The researcher is using :
- (1) Naturalistic observation
 - (2) Role playing
 - (3) Active deception
 - (4) Dehoaxing

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723685
Option 1 ID : 53307214341
Option 2 ID : 53307214342
Option 3 ID : 53307214343
Option 4 ID : 53307214344
Status : Answered
Chosen Option : 4

- Q.38** Arrange the data sets with following pairs of mean (\bar{x}) and standard derivation (σ) in increasing order of their coefficient of variation.

- (A) $\bar{x} = 8, \sigma = 1.7$
- (B) $\bar{x} = 11, \sigma = 2.2$
- (C) $\bar{x} = 15, \sigma = 3.6$
- (D) $\bar{x} = 16, \sigma = 3$

Choose the **correct** answer from the options given below :

- (1) (A), (B), (D), (C)
- (2) (B), (D), (C), (A)
- (3) (C), (B), (D), (A)
- (4) (D), (B), (A), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723687
Option 1 ID : 53307214349
Option 2 ID : 53307214350
Option 3 ID : 53307214351
Option 4 ID : 53307214352
Status : Answered
Chosen Option : 4

Q.39**Match List - I with List - II.**

List - I (Word)	List - II (Unique Code)
(A) Q U A K E	(I) K T F U L
(B) O F T E N	(II) V H Q D U
(C) P E A C H	(III) I E Y O U
(D) D R I V E	(IV) J U Y W R

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (2) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**Question ID : **5330723699**Option 1 ID : **53307214397**Option 2 ID : **53307214398**Option 3 ID : **53307214399**Option 4 ID : **53307214400**Status : **Answered**Chosen Option : **1****Q.40**

Among the following which is correct in the context of Śabda Pramāṇa ?

- (1) For Sāmkhya, a word signifies universal
- (2) For, Jainas, a word signifies a particular
- (3) For old Nyāya, a word symbolizes universal only
- (4) For Vedantins, a word primarily means the class character of individuals

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**Question ID : **5330723704**Option 1 ID : **53307214417**Option 2 ID : **53307214418**Option 3 ID : **53307214419**Option 4 ID : **53307214420**Status : **Answered**Chosen Option : **1**

Q.41

सूची-I से सूची-II का मिलान कीजिए :

सूची-I

(अस्तित्व रहित होने के स्वरूप)

- (A) अन्योन्यभाव
- (B) अत्यंताभाव
- (C) प्रागभाव
- (D) प्रध्वंसाभाव

सूची-II

(निरूपण)

- (I) हेयर का होर्न (खरगोश के सोंग)
- (II) अब जार का अस्तित्व नहीं है
- (III) 'यह वह नहीं है'
- (IV) किसी वस्तु का अस्थायी तौर पर न होना

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

- (1) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
- (2) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723703

Option 1 ID : 53307214413

Option 2 ID : 53307214414

Option 3 ID : 53307214415

Option 4 ID : 53307214416

Status : Answered

Chosen Option : 4

Q.42

According to National Credit Framework (NCrF) the credit level earned after Doctoral degree (Ph.D.) will be :

- (1) 7
- (2) 8
- (3) 9
- (4) 10

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723719

Option 1 ID : 53307214477

Option 2 ID : 53307214478

Option 3 ID : 53307214479

Option 4 ID : 53307214480

Status : Answered

Chosen Option : 2

- Q.43** What can be correctly inferred about the Traditional Teaching Method and Support System ?
(A) Teacher is responsible to control the class and teach with the usage of blackboard
(B) It is also known as 'Back-to Basics' System.
(C) The student carries the responsibilities to use self-learning tools.
(D) Virtual labs are used as one of the Teaching tools.
(E) Charts, Maps and Textbooks are the prime resources and handouts are used by the teacher

Choose the **correct** answer from the options given below :

- (1) (B) and (C) only
(2) (A), (B) and (D) only
(3) (D) and (E) only
(4) (A), (B), and (E) only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 5330723683
Option 1 ID : 53307214333
Option 2 ID : 53307214334
Option 3 ID : 53307214335
Option 4 ID : 53307214336
Status : Answered
Chosen Option : 4

- Q.44** Arrange the following states in ascending order according to their area under forest cover :

- (A) Arunachal Pradesh
(B) Chhattisgarh
(C) Maharashtra
(D) Odisha
(E) Madhya Pradesh

Choose the **correct** answer from the options given below :

- (1) (A), (C), (D), (B), (E)
(2) (C), (D), (B), (A), (E)
(3) (B), (A), (C), (E), (D)
(4) (D), (B), (A), (E), (C)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 5330723712
Option 1 ID : 53307214449
Option 2 ID : 53307214450
Option 3 ID : 53307214451
Option 4 ID : 53307214452
Status : Answered
Chosen Option : 2

Q.45

निम्नलिखित से किस बात का अनुमान लगाया जा सकता है? “आपको ज्ञात है कि मुझे कैसे इस बात की जानकारी है कि पशुओं में आत्मायें होती हैं? क्योंकि औसतन निम्नतम पशु इस पृथ्वी पर रहने वाले अधिकतर अनुष्ठों की तुलना में काफी अच्छा और दयालु होता है।”

(A) आधार वाक्य : निम्नतम पशु इस पृथ्वी पर रहने वाले अधिकतर मनुष्ठों की तुलना में काफी अच्छा और दयालु होता है।

(B) आधारवाक्य : पशुओं में आत्मा होती है।

(C) यह एक युक्ति नहीं है।

(D) निष्कर्ष : निम्नतम पशु इस पृथ्वी पर रहने वाले अधिकतर मनुष्ठों की तुलना में काफी अच्छा और दयालु होता है।

(E) निष्कर्ष : पशुओं में आत्मा होती है।

नीचे दिए गए विकल्पों में से सही उत्तर का चयन कीजिए :

(1) केवल (B), (C) और (D)

(2) केवल (A), (C) और (E)

(3) केवल (A) और (E)

(4) केवल (A), (D) और (E)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 5330723701

Option 1 ID : 53307214405

Option 2 ID : 53307214406

Option 3 ID : 53307214407

Option 4 ID : 53307214408

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions that follow :

Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No : 46**Q.46**

Whereas the festival of Lord Jagannath is celebrated in many places in India and abroad, it is primarily associated with which city ?

(1) Bhuvaneswar

(2) Puri

(3) Cuttack

(4) Konark

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 5330723721

Option 1 ID : 53307214481

Option 2 ID : 53307214482

Option 3 ID : 53307214483

Option 4 ID : 53307214484

Status : Answered

Chosen Option : 2

Comprehension:

Read the following passage and answer the questions that follow :

Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosa, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No : 47

Q.47 What are the names of the deities who accompany Lord Jagannath in the Rath Yatra ?

- (1) Subhadra and Balabhadra
- (2) Balabhadra and Shiva
- (3) Subhadra and Hidimba
- (4) Balabhadra and Hidimba

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723722

Option 1 ID : 53307214485

Option 2 ID : 53307214486

Option 3 ID : 53307214487

Option 4 ID : 53307214488

Status : Answered

Chosen Option : 1

Comprehension:

Read the following passage and answer the questions that follow :

Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosa, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No : 48

Q.48 The Car Festival is conducted on a broad road that is called _____.

- (1) Darpadalana
- (2) Ashadha
- (3) Badadanda
- (4) Taladhwaja

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723724

Option 1 ID : 53307214493

Option 2 ID : 53307214494

Option 3 ID : 53307214495

Option 4 ID : 53307214496

Status : Answered

Chosen Option : 3

Comprehension:

Read the following passage and answer the questions that follow :

Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No : 49

Q.49 What is the name assigned to the journey wherein the deities return to the Jagannath Temple after nine days ?

- (1) Rath Yatra
- (2) Wapsi Yatra
- (3) Maha Yatra
- (4) Bahuda Jatra

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723725

Option 1 ID : 53307214497

Option 2 ID : 53307214498

Option 3 ID : 53307214499

Option 4 ID : 53307214500

Status : Answered

Chosen Option : 4

Comprehension:

Read the following passage and answer the questions that follow :

Odisha has colourful fairs and festivals and are as numerous as the days of the year. The sacred journey of Lord Jagannath with brother Balabhadra and sister Subhadra from the Jagannath Temple to the divine shrine called the Gundicha Temple is known as the Car Festival or the Rath Yatra. On this occasion, the deities adorn three chariots named Nandigosha, Taladhwaja and Darpadalana respectively. They stay in the divine shrine for nine days and then return to the Jagannath Temple. This journey is called Bahuda Jatra. This grand festival of Odisha is visited by lakhs of devotees from India and abroad who pull the sacred chariots from the Jagannath Temple to the Gundicha Temple and back on a broad road called Badadanda. The festival begins from the second day of Shukla Paksha (bright half) in the month of Ashadha (June-July) every year. This festival of Lord Jagannath, who is worshipped as the Lord of the Universe, is celebrated not only in Puri, but also in many other places in India and abroad.

SubQuestion No : 50

Q.50 The sacred journey of Lord Jagannath is traditionally undertaken onward to which divine shrine ?

- (1) Jagannath Temple
- (2) Subhadra Temple
- (3) Balabhadra Temple
- (4) Gundicha Temple

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723723

Option 1 ID : 53307214489

Option 2 ID : 53307214490

Option 3 ID : 53307214491

Option 4 ID : 53307214492

Status : Answered

Chosen Option : 4

Q.51 Consider the following if p and q are two statements.

- (A) $\sim(p \wedge q) \equiv \sim p \vee \sim q$
- (B) $\sim(p \vee q) \equiv \sim p \wedge \sim q$
- (C) $p \wedge \sim p \equiv T$
- (D) $\sim(p \Rightarrow q) \equiv p \wedge \sim q$
- (E) $p \vee q \equiv \sim p \vee \sim q$

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (D) Only
- (2) (A), (C) and (D) Only
- (3) (C), (D) and (E) Only
- (4) (A), (B) and (C) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
 Question ID : 5330723800
 Option 1 ID : 53307214797
 Option 2 ID : 53307214798
 Option 3 ID : 53307214799
 Option 4 ID : 53307214800
 Status : Answered
 Chosen Option : 1

Q.52 Which of the following is correct way to declare a functional pointer in C ?

- (1) int *func (int, int);
- (2) int (*func) (int, int);
- (3) int (func*) (int, int);
- (4) int *func* (int, int);

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
 Question ID : 5330723745
 Option 1 ID : 53307214577
 Option 2 ID : 53307214578
 Option 3 ID : 53307214579
 Option 4 ID : 53307214580
 Status : Answered
 Chosen Option : 1

Q.53 Arrange the following steps of file handling in C in the correct order :

- (A) Close the file
- (B) Read from or write to the file
- (C) Open the file
- (D) Check for error

Choose the **correct** answer from the options given below :

- (1) (A), (C), (D), (B)
- (2) (D), (B), (C), (A)
- (3) (C), (D), (B), (A)
- (4) (B), (D), (A), (C)

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723769

Option 1 ID : 53307214673

Option 2 ID : 53307214674

Option 3 ID : 53307214675

Option 4 ID : 53307214676

Status : Answered

Chosen Option : 3

Q.54

How does a relational database ensure data integrity ?

- (1) By encrypting all data stored
- (2) By enforcing rules defined in the schema
- (3) By compressing data for efficient storage
- (4) By allowing unrestricted access to all users

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723750

Option 1 ID : 53307214597

Option 2 ID : 53307214598

Option 3 ID : 53307214599

Option 4 ID : 53307214600

Status : Answered

Chosen Option : 2

- Q.55**
- (A) In IPv4 addressing, a block of address can be defined as x.y.z.t/n in which x.y.z.t define one of the address and /n define the mask
 - (B) The first address in the block can be found by setting the rightmost 32-n bits to 0s
 - (C) Address of class C is used for multicast communication
 - (D) There are five classes in IPv4 address
 - (E) Supernetting combines several networks into one large network
- Choose the **correct** answer from the options given below :
- (1) (A), (B) and (C) Only
 - (2) (A), (B), (D) and (E) Only
 - (3) (A), (C), (D) and (E) Only
 - (4) (C), (D) and (E) Only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723789

Option 1 ID : 53307214753

Option 2 ID : 53307214754

Option 3 ID : 53307214755

Option 4 ID : 53307214756

Status : Answered

Chosen Option : 2

Q.56 Match List - I with List - II.

- | List - I

(Algorithms) | List - II

(Characteristics) |
|------------------------------------|--|
| (A) First Come First Served (FCFS) | (I) Each process is assigned a priority. |
| (B) Shortest Job First (SJF) | (II) Ensures fair allocation of CPU time by assigning time slice. |
| (C) Round Robin (RR) | (III) Processes are executed in the order they arrive. |
| (D) Priority Scheduling | (IV) Select the process for execution with smallest next Burst time. |

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (3) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723815

Option 1 ID : 53307214857

Option 2 ID : 53307214858

Option 3 ID : 53307214859

Option 4 ID : 53307214860

Status : Answered

Chosen Option : 3

Q.57 Arrange the following stages of parsing in the correct order as they typically occur in the compilation process.

- (A) Lexical Analysis
- (B) Sematic Analysis
- (C) Syntax Analysis
- (D) Intermediate Code Generation
- (E) Code Optimization

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D), (E)
- (2) (A), (C), (B), (D), (E)
- (3) (A), (D), (B), (C), (E)
- (4) (A), (C), (D), (B), (E)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723776**

Option 1 ID : **53307214701**

Option 2 ID : **53307214702**

Option 3 ID : **53307214703**

Option 4 ID : **53307214704**

Status : **Answered**

Chosen Option : **2**

Q.58 Match List - I with List - II.

List - I (Testing Type)	List - II (Description)
(A) Unit testing	(I) Testing individual components of the software.
(B) Integrating testing	(II) Testing the interaction between integrated components.
(C) System testing	(III) Testing to verify the system meets business needs.
(D) Acceptance testing	(IV) Testing the complete system to ensure it meets requirements.

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (3) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (4) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723812**

Option 1 ID : **53307214845**

Option 2 ID : **53307214846**

Option 3 ID : **53307214847**

Option 4 ID : **53307214848**

Status : **Answered**

Chosen Option : **2**

Q.59 Which of the following C++ statements correctly declares an abstract class ?

- (1) class A { virtual void show()=0; };
- (2) class A { void show()=0; };
- (3) class A { void show() {} ; };
- (4) class A { show()=0; };

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723748

Option 1 ID : 53307214589

Option 2 ID : 53307214590

Option 3 ID : 53307214591

Option 4 ID : 53307214592

Status : Answered

Chosen Option : 3

Q.60 In a schema R(A, B, C, D, E, F, G, H), each field of R contains only atomic values.

$F = \{CH \rightarrow G, A \rightarrow BC, B \rightarrow CFH, E \rightarrow A, F \rightarrow EG\}$ is a set of functional dependencies so that F^+ is exactly the set of FDs that holds R. The relation R is :

- (1) In 1NF, but not in 2NF
- (2) In 2NF, but not in 3NF
- (3) In 3NF, but not in BCNF
- (4) In BCNF

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723756

Option 1 ID : 53307214621

Option 2 ID : 53307214622

Option 3 ID : 53307214623

Option 4 ID : 53307214624

Status : Marked For Review

Chosen Option : 1

Q.61 Which of the following languages can be recognized by Non-Deterministic Finite Automata (NFA) but cannot be recognized by Deterministic Finite Automata (DFA) ?

- (A) $L_1 = \{w \in \{0, 1\}^* \mid \text{the length of } w \text{ is even}\}$
- (B) $L_2 = \{w \in \{0, 1\}^* \mid \text{the length of } w \text{ is odd}\}$
- (C) $L_3 = \{w \in \{0, 1\}^* \mid \text{all 0's come before all 1's in } w\}$
- (D) $L_4 = \{w \in \{0, 1\}^* \mid w \text{ contains an equal number of 0's and 1's}\}$
- (E) $L_5 = \{w \in \{0, 1\}^* \mid \text{all 1's come before all 0's in } w\}$

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (B) and (C) Only
- (3) (C) and (D) Only
- (4) (D) and (E) Only

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723788

Option 1 ID : 53307214749

Option 2 ID : 53307214750

Option 3 ID : 53307214751

Option 4 ID : 53307214752

Status : Answered

Chosen Option : 1

Q.62 Consider the Grammar :

$$T \rightarrow Qx$$

$$Q \rightarrow RS$$

$$R \rightarrow y \mid \epsilon$$

$$S \rightarrow z \mid \epsilon$$

Here x, y, z are terminals and T, Q, R, S are non terminals.

What will be the follow set of the non terminal R ?

- (1) {x, y}
- (2) {y, z}
- (3) {z, x}
- (4) {ε}

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723727

Option 1 ID : 53307214505

Option 2 ID : 53307214506

Option 3 ID : 53307214507

Option 4 ID : 53307214508

Status : Answered

Chosen Option : 3

Q.63 Which of the following statements about pointers in C are TRUE.

- (A) Pointers can be used to access array elements
 - (B) Pointers can store the address of another pointer
 - (C) Pointers are automatically dereferenced in expression
 - (D) Pointers cannot be used to access structure members
- Choose the **correct** answer from the options given below :
- (1) (A) and (C) Only
 - (2) (A) and (B) Only
 - (3) (B) and (C) Only
 - (4) (C) and (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723796

Option 1 ID : 53307214781

Option 2 ID : 53307214782

Option 3 ID : 53307214783

Option 4 ID : 53307214784

Status : Answered

Chosen Option : 2

Q.64 Which of the following are Agile Process Models ?

- (A) Extreme Programming (XP)
- (B) Waterfall
- (C) Scrum
- (D) Spiral
- (E) Incremental

Choose the **correct** answer from the options given below :

- (1) (A) and (C) Only
- (2) (B) and (C) Only
- (3) (A) and (D) Only
- (4) (B) and (E) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723795

Option 1 ID : 53307214777

Option 2 ID : 53307214778

Option 3 ID : 53307214779

Option 4 ID : 53307214780

Status : Answered

Chosen Option : 1

Q.65 Match List - I with List - II.

- | List - I | List - II |
|-----------|--|
| (A) HTML | (I) Allow for dynamic and interactive web pages. |
| (B) DHTML | (II) Defines the structure of web pages. |
| (C) XML | (III) Object-oriented programming language for web applications. |
| (D) JAVA | (IV) Used for data storage and transport. |

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

Options

1. 1
2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723814

Option 1 ID : 53307214853

Option 2 ID : 53307214854

Option 3 ID : 53307214855

Option 4 ID : 53307214856

Status : Answered

Chosen Option : 3

Q.66 Match List - I with List - II.

- | List - I
(Queries) | List - II
(Probability) |
|---|----------------------------|
| (A) A bag contains 6 white and 4 red balls. Two balls are drawn at random. What is the chance, they will be the same colour ? | (I) $\frac{3}{68}$ |
| (B) In a pack of 52 cards, one card is drawn at random, what is the probability that it is either a king or a queen ? | (II) $\frac{14}{68}$ |
| (C) A bag contains 6 red, 4 white and 8 blue balls. If three balls are drawn at random, find the probability of 1 red and 2 white balls ? | (III) $\frac{2}{3}$ |
| (D) A bag contains 6 red, 4 white and 8 blue balls. If three balls are drawn at random. Find the probability of 2 blue and 1 red balls ? | (IV) $\frac{7}{15}$ |

Choose the **correct** answer from the options given below :

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (4) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Options

1. 1
2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723801

Option 1 ID : 53307214801

Option 2 ID : 53307214802

Option 3 ID : 53307214803

Option 4 ID : 53307214804

Status : Marked For Review

Chosen Option : 3

Q.67 A graph G with number of vertices greater and equal than three i.e. ($n \geq 3$) is a Hamiltonian graph, if the degree of each vertex is greater and equal to

- (1) Equal to number of vertices
- (2) Double of number of vertices
- (3) Half of number of vertices
- (4) Four times of number of vertices

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723802

Option 1 ID : 53307214805

Option 2 ID : 53307214806

Option 3 ID : 53307214807

Option 4 ID : 53307214808

Status : Answered

Chosen Option : 3

Q.68 Which of the following are TRUE about constructors in C++ ?

- (A) A constructor can be overloaded.
- (B) A constructor does not have a return type.
- (C) A constructor must be declared as a friend function.
- (D) A constructor is called when an object is destroyed.

Choose the **correct** answer from the options given below :

- (1) (B), (C), (D) Only
- (2) (B), (C) Only
- (3) (A), (B), (C) Only
- (4) (A), (B) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723797

Option 1 ID : 53307214785

Option 2 ID : 53307214786

Option 3 ID : 53307214787

Option 4 ID : 53307214788

Status : Answered

Chosen Option : 4

Q.69 Select the Sorting Algorithms that are stable.

- (A) Quick Sort
- (B) Bubble Sort
- (C) Insertion Sort
- (D) Merge Sort
- (E) Shell Sort

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) and (E) Only
- (2) (A), (D) and (E) Only
- (3) (B) and (C) Only
- (4) (B), (C) and (E) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723793
Option 1 ID : 53307214769
Option 2 ID : 53307214770
Option 3 ID : 53307214771
Option 4 ID : 53307214772
Status : Answered
Chosen Option : 2

Q.70 Fifth normal form is concerned with :

- (1) Join Dependency
- (2) Domain-Key
- (3) Multivalued dependency
- (4) Functional dependency

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723749
Option 1 ID : 53307214593
Option 2 ID : 53307214594
Option 3 ID : 53307214595
Option 4 ID : 53307214596
Status : Answered
Chosen Option : 2

Q.71 Match List - I with List - II.

- | List - I
(Counter) | List - II
(uses/working) |
|--------------------------|--|
| (A) N-bit Ring Counter | (I) Uses universal clock |
| (B) Synchronous Counter | (II) Counts exactly N states |
| (C) Asynchronous Counter | (III) Counts 0 to 9 |
| (D) Decimal Counter | (IV) Main clock is applied to first flip-flop only |
- Choose the correct answer from the options given below :
- (1) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
 - (2) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
 - (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
 - (4) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

Options

1. 1
2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723805

Option 1 ID : 53307214817

Option 2 ID : 53307214818

Option 3 ID : 53307214819

Option 4 ID : 53307214820

Status : Answered

Chosen Option : 3

Q.72 Match List - I with List - II.

- | List - I
(operating system concepts) | List - II
(characteristics) |
|---|--|
| (A) Paging | (I) Evicts least recently used process |
| (B) LRU (Least Recently Used) | (II) Extends physical memory |
| (C) C-SCAN | (III) Logical to physical mapping |
| (D) Virtual Memory | (IV) Circular disk access |

Choose the correct answer from the options given below :

- (1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- (2) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (3) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)
- (4) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Options

1. 1
2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723813

Option 1 ID : 53307214849

Option 2 ID : 53307214850

Option 3 ID : 53307214851

Option 4 ID : 53307214852

Status : Answered

Chosen Option : 2

Q.73 Match List - I with List - II.

- | List - I | List - II |
|---------------------------------|--|
| (A) Natural language processing | (I) A method of training algorithm by rewarding desired behaviour and/or punishing undesired one. |
| (B) Reinforcement learning | (II) System designed to emulate the decision making abilities of a human expert. |
| (C) Support vector machine | (III) A branch of AI focused on understanding and generating human language. |
| (D) Expert system | (IV) A machine learning technique that finds the hyper plane that best separates different class in a feature space. |

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (2) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723808**

Option 1 ID : **53307214829**

Option 2 ID : **53307214830**

Option 3 ID : **53307214831**

Option 4 ID : **53307214832**

Status : **Answered**

Chosen Option : **3**

Q.74 A class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet ?

- (1) 1022
- (2) 1023
- (3) 2046
- (4) 2047

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723740**

Option 1 ID : **53307214557**

Option 2 ID : **53307214558**

Option 3 ID : **53307214559**

Option 4 ID : **53307214560**

Status : **Answered**

Chosen Option : **1**

Q.75 Arrange the given steps required for a Direct Memory Access (DMA) transfer in the correct order.

- (A) Initiate DMA transfer request
- (B) Transfer data directly between peripheral and memory
- (C) Processor grants DMA control over the system bus
- (D) DMA controller completes data transfer and signals completion

Choose the **correct** answer from the options given below :

- (1) (C), (A), (B), (D)
- (2) (A), (C), (B), (D)
- (3) (A), (B), (C), (D)
- (4) (C), (B), (A), (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723768

Option 1 ID : 53307214669

Option 2 ID : 53307214670

Option 3 ID : 53307214671

Option 4 ID : 53307214672

Status : Answered

Chosen Option : 2

Q.76 Which of the following statements are TRUE about Privileged Instructions ?

- (A) It can only be executed by the Operating System kernel and not by user applications.
- (B) It is designed to perform operations that can directly affect the hardware or system state such as I/O operations or changing memory management setting.
- (C) User applications can execute privileged instructions if they have the correct permissions, set by the Operating System.
- (D) It is usually executed in user mode to ensure the safety and security of the system.

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (A), (B) and (C) Only
- (3) (B) and (C) Only
- (4) (B), (C) and (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723786

Option 1 ID : 53307214741

Option 2 ID : 53307214742

Option 3 ID : 53307214743

Option 4 ID : 53307214744

Status : Answered

Chosen Option : 1

Q.77 Arrange the following recurrence relations in increasing order of their time capacity.

- (A) $T(n) = T(n/2) + 1$
- (B) $T(n) = 2T(n/2) + n$
- (C) $T(n) = 3T(n/3) + n$
- (D) $T(n) = 2T(n/2) + \sqrt{n}$
- (E) $T(n) = T(n - 1) + 1$

Choose the **correct** answer from the options given below :

- (1) (E), (A), (B), (D), (C)
- (2) (A), (E), (D), (B), (C)
- (3) (E), (A), (D), (B), (C)
- (4) (A), (B), (D), (E), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723774**

Option 1 ID : **53307214693**

Option 2 ID : **53307214694**

Option 3 ID : **53307214695**

Option 4 ID : **53307214696**

Status : **Answered**

Chosen Option : **2**

Q.78 If a software project has 2000 lines of code (LOC) and the average productivity rate is 10 LOC per person-hour, how many person-hours are required to complete the project ?

- (1) 100
- (2) 150
- (3) 200
- (4) 250

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723735**

Option 1 ID : **53307214537**

Option 2 ID : **53307214538**

Option 3 ID : **53307214539**

Option 4 ID : **53307214540**

Status : **Answered**

Chosen Option : **3**

Q.79 _____ is a Self Balancing binary search tree, where the path from the root to the furthest leaf is no more than twice as long as the path from the root to nearest leaf.

- (1) Expression tree
- (2) Game tree
- (3) Red-Black tree
- (4) Threaded tree

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723729

Option 1 ID : 53307214513

Option 2 ID : 53307214514

Option 3 ID : 53307214515

Option 4 ID : 53307214516

Status : Answered

Chosen Option : 3

Q.80 Host A (on TCP/IPv4 Networks) send an IP Datagram D to host B (also on TCP/IPv4 network). Assume that no error occurred during transmission of D, when D reaches B. Which of following header field may differ from that of original datagram D ?

- (A) TTL
- (B) Checksum
- (C) Fragment offset
- (D) Source IP
- (E) Destination IP

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (A), (B) and (C) Only
- (3) (A), (B), (C) and (D) Only
- (4) (A), (B), (C) and (E) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723790

Option 1 ID : 53307214757

Option 2 ID : 53307214758

Option 3 ID : 53307214759

Option 4 ID : 53307214760

Status : Answered

Chosen Option : 2

Q.81 Arrange the following Language Classes in ascending order according to their expressive power, as defined by Chomsky hierarchy :

- (A) Context-free languages
- (B) Context-sensitive languages
- (C) Regular languages
- (D) Unrestricted Grammars

Choose the **correct** answer from the options given below :

- (1) (C), (A), (B), (D)
- (2) (C), (A), (D), (B)
- (3) (A), (C), (B), (D)
- (4) (A), (D), (B), (C)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723777

Option 1 ID : 53307214705

Option 2 ID : 53307214706

Option 3 ID : 53307214707

Option 4 ID : 53307214708

Status : Answered

Chosen Option : 1

Q.82 Which of the following relations can not be decomposed in to BCNF with a lossless join and dependency-preserving decomposition ?

- (1) R (V, W, X, Y, Z) {VW→X, WX→V, VX→W, W→Y, Y→Z}
- (2) R (V, W, X, Y) {VW→W, X→Y}
- (3) R (V, W, X, Y) {VW→X, X→VY}
- (4) R (V, W, X, Y, Z) {VW→X, X→Y, Y→Z, Z→V}

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723755

Option 1 ID : 53307214617

Option 2 ID : 53307214618

Option 3 ID : 53307214619

Option 4 ID : 53307214620

Status : Answered

Chosen Option : 1

Q.83 Let $G(V, E)$ be an undirected graph with l edges. Then the sum of degree of all vertices is equal to _____.

- (1) $2l$
- (2) $l/2$
- (3) l^2
- (4) \sqrt{l}

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723758

Option 1 ID : 53307214629

Option 2 ID : 53307214630

Option 3 ID : 53307214631

Option 4 ID : 53307214632

Status : Answered

Chosen Option : 1

Q.84 Match List - I with List - II.

List - I (computing systems)	List - II (working/output)
(A) Half Adder	(I) Has n input and 2^n output
(B) Decoder	(II) CPU Storage Unit
(C) Register	(III) Used to store program at runtime
(D) Main memory	(IV) 2-bit addition circuit

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (2) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)
- (3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
- (4) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723806

Option 1 ID : 53307214821

Option 2 ID : 53307214822

Option 3 ID : 53307214823

Option 4 ID : 53307214824

Status : Answered

Chosen Option : 3

Q.85 Consider the following statement regarding special purpose registers.

- (A) Program Counter (PC) keeps the track of next instruction executed
- (B) Instruction register holds the address of first instruction to be executed
- (C) Accumulator holds the output of ALU
- (D) Program Counter (PC) keeps the track of only first instruction of the program

Choose the **correct** answer from the options given below :

- (1) (A) and (C) Only
- (2) (A) and (D) Only
- (3) (B) and (D) Only
- (4) (A), (B) and (C) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723784

Option 1 ID : 53307214733

Option 2 ID : 53307214734

Option 3 ID : 53307214735

Option 4 ID : 53307214736

Status : Answered

Chosen Option : 1

- Q.86** Which of the following statements are TRUE about mutual exclusion in concurrent programming ?
- (A) Mutual exclusion ensures that only one process can be in a critical section at any given time.
 - (B) Mutual exclusion are designed to prevent conflicts and ensure that only one process can access shared resources at a time.
 - (C) Mutual exclusion can use various algorithms to ensure that processes do not enter the critical section simultaneously.
 - (D) Mutual exclusion allows multiple processes to access the critical section simultaneously to improve performance.

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) Only
- (2) (B), (C), (D) Only
- (3) (B), (D), (A) Only
- (4) (A), (C), (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723787
Option 1 ID : 53307214745
Option 2 ID : 53307214746
Option 3 ID : 53307214747
Option 4 ID : 53307214748
Status : Answered
Chosen Option : 1

- Q.87** A multi processor system with 16 processors is used to execute a parallelizable task. If the serial portion of the task takes 200 clock cycles and the parallel portion take 800 clock cycles. When all 16 processor are used how many total clock cycles are required to complete the task ?

- (1) 250
- (2) 300
- (3) 400
- (4) 450

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723763
Option 1 ID : 53307214649
Option 2 ID : 53307214650
Option 3 ID : 53307214651
Option 4 ID : 53307214652
Status : Answered
Chosen Option : 3

Q.88 Let L (x, y) be the statement “ x loves y ” where the domain for both x and y consists of all people in the world. Use quantifiers to express “Joy is loved by everyone”.

- (1) $\forall x \text{ L}(x, \text{Joy})$
- (2) $\forall y \text{ L}(\text{Joy}, y)$
- (3) $\exists y \forall x \text{ L}(x, y)$
- (4) $\exists x \neg \text{L}(\text{Joy}, x)$

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723761

Option 1 ID : 53307214641

Option 2 ID : 53307214642

Option 3 ID : 53307214643

Option 4 ID : 53307214644

Status : Answered

Chosen Option : 2

Q.89 Arrange the following steps of Feature Drive Development (FDD) process in the correct sequence :

- (A) Develop an overall model
- (B) Build by feature
- (C) Plan by feature
- (D) Design by feature
- (E) Build a feature list

Choose the **correct** answer from the options given below :

- (1) (A), (C), (B), (E), (D)
- (2) (A), (E), (C), (D), (B)
- (3) (B), (A), (D), (E), (C)
- (4) (A), (B), (C), (E), (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723772

Option 1 ID : 53307214685

Option 2 ID : 53307214686

Option 3 ID : 53307214687

Option 4 ID : 53307214688

Status : Answered

Chosen Option : 2

Q.90

```
#include<stdio.h>
void main()
{
    int arr[ ]={1, 2, 3, 4, 5};
    int *p=arr;
    printf("%d", *p++);
    printf("%d", *(p+1));
}
```

Find the output of the above code?

- (1) 1, 2
- (2) 1, 3
- (3) 2, 3
- (4) 1, 4

Options 1.

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723730

Option 1 ID : 53307214517

Option 2 ID : 53307214518

Option 3 ID : 53307214519

Option 4 ID : 53307214520

Status : Answered

Chosen Option : 3

Q.91

Which of the following properties correctly describe a Regular Grammar ?

- (A) All production rules are of the form $A \rightarrow xB$ or $A \rightarrow x$, where A and B are non terminal symbols and x is a terminal symbol.
- (B) Regular grammars are more powerful than context-free grammars and can express any type of language.
- (C) There is a direct correspondence between regular grammar and finite automata.
- (D) Regular grammars can generate languages that are not recognised by any type of automata.

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (B) and (C) Only
- (3) (C) and (D) Only
- (4) (A) and (C) Only

Options 1.

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723791

Option 1 ID : 53307214761

Option 2 ID : 53307214762

Option 3 ID : 53307214763

Option 4 ID : 53307214764

Status : Answered

Chosen Option : 4

Q.92 Find the correct sequence of the storage device in ascending order based on their access time.

- (A) Registers
- (B) Magnetic Disk
- (C) Magnetic Tapes
- (D) Main memory
- (E) Optical Disk

Choose the **correct** answer from the options given below :

- (1) (B), (A), (D), (C), (E)
- (2) (B), (A), (E), (D), (C)
- (3) (C), (B), (A), (E), (D)
- (4) (C), (E), (B), (D), (A)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723770**

Option 1 ID : **53307214677**

Option 2 ID : **53307214678**

Option 3 ID : **53307214679**

Option 4 ID : **53307214680**

Status : **Answered**

Chosen Option : **4**

Q.93 Consider the following code :

```
#include<stdio.h>
void f1(char *x, char *y) {
    char *t1; t1 = x; x = y; y = t1;}
void f2(char **x, char **y) {
    char *t1; t1 = *x; *x = *y; *y = t1;}
int main()
{
    char *a = "ONE", *b = "TWO";
    f1(a, b); printf("%s %s", a, b);
    f2(&a, &b); printf("%s %s", a, b);
    return 0;
}
```

What will be the output of the above code?

- (1) ONE TWO TWO ONE
- (2) TWO ONE ONE TWO
- (3) ONE TWO ONE TWO
- (4) TWO ONE TWO ONE

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723743

Option 1 ID : 53307214569

Option 2 ID : 53307214570

Option 3 ID : 53307214571

Option 4 ID : 53307214572

Status : Answered

Chosen Option : 1

Q.94 Consider a relation schema R = (U, V, W, X, Y, Z), on which the following functional dependencies hold :

$$\{U \rightarrow V, VW \rightarrow X, Y \rightarrow W; X \rightarrow U\}$$

The candidate keys of R are :

- (1) UY, VY
- (2) UY, VY, XY
- (3) UYZ, VYZ, VWZ
- (4) UYZ, VYZ, XYZ

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723754

Option 1 ID : 53307214613

Option 2 ID : 53307214614

Option 3 ID : 53307214615

Option 4 ID : 53307214616

Status : Answered

Chosen Option : 4

Q.95 What is SQL primarily used for in the context of relational databases ?

- (1) To design user interfaces
- (2) To create and manipulate databases
- (3) To display data on web pages
- (4) To format printed reports

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723751

Option 1 ID : 53307214601

Option 2 ID : 53307214602

Option 3 ID : 53307214603

Option 4 ID : 53307214604

Status : Answered

Chosen Option : 2

Q.96 Which of the following are context free language ?

- (A) $\{w^i x^j y^k z^l | i+k=j+l, \text{ where } i, j, k, l \geq 0\}$
- (B) $\{w^i x^j y^k z^l | i=j \text{ and } k=l, \text{ where } i, j, k, l \geq 0\}$
- (C) $\{w^i x^j y^k z^l | i=j=k \text{ and } k \neq l, \text{ where } i, j, k, l \geq 0\}$
- (D) $\{w^i x^j y^k z^l | i=j=k+l, \text{ where } i, j, k, l \geq 0\}$
- (E) $\{w^i x^j y^k z^l | i=j=l \text{ and } k \neq l, \text{ where } i, j, k, l \geq 0\}$

Choose the **correct** answer from the options given below :

- (1) (A), (B) Only
- (2) (B), (C) Only
- (3) (C), (D) Only
- (4) (D), (E) Only

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723781

Option 1 ID : 53307214721

Option 2 ID : 53307214722

Option 3 ID : 53307214723

Option 4 ID : 53307214724

Status : Answered

Chosen Option : 1

Q.97 Match List - I with List - II.**List - I**

- (A) The activation function
- (B) The learning method of perceptron
- (C) Areas of application of artificial neural network include
- (D) The output of the perceptron

List - II

- (I) is called the delta rule.
- (II) is one of the key components of the perceptron as in the most common neural network architecture.
- (III) is always boolean like a switch.
- (IV) system identification and control.

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (3) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723807**

Option 1 ID : **53307214825**

Option 2 ID : **53307214826**

Option 3 ID : **53307214827**

Option 4 ID : **53307214828**

Status : **Answered**

Chosen Option : **3**

Q.98

Two computers A and B are configured as follows : A has IP address 203.197.2.53 and subnet mask 255.255.128.0, B has IP address 203.197.75.201 and subnet mask 255.255.192.0. What one of the following statement is true ?

- (1) A and B both assume they are on the same network
- (2) B assumes, A is on same network, A assumes B is on different network
- (3) A assumes, B is on same network, but B assumes, A is on a different network
- (4) A and B both assume they are on different network

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723739**

Option 1 ID : **53307214553**

Option 2 ID : **53307214554**

Option 3 ID : **53307214555**

Option 4 ID : **53307214556**

Status : **Marked For Review**

Chosen Option : **4**

Q.99 Consider the following relations on $\{1, 2, 3, 4\}$. Which of the following relations are reflexive ?

- (A) $R_1 = \{(1, 1), (1, 2), (2, 1), (2, 2), (3, 4), (4, 1), (4, 4)\}$
- (B) $R_2 = \{(1, 1), (1, 2), (2, 1)\}$
- (C) $R_3 = \{(1, 1), (1, 2), (1, 4), (2, 1), (2, 2), (3, 3), (4, 1), (4, 4)\}$
- (D) $R_4 = \{(2, 1), (3, 1), (3, 2), (4, 1), (4, 2), (4, 3)\}$
- (E) $R_5 = \{(1, 1), (1, 2), (1, 3), (1, 4), (2, 2), (2, 3), (2, 4), (3, 3), (3, 4), (4, 4)\}$

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) Only
- (2) (A), (D) and (E) Only
- (3) (D) and (E) Only
- (4) (C) and (E) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723799**

Option 1 ID : **53307214793**

Option 2 ID : **53307214794**

Option 3 ID : **53307214795**

Option 4 ID : **53307214796**

Status : **Answered**

Chosen Option : **4**

Q.100 Consider a schema $R(P,Q,R,S)$ and the following functional dependencies $P \rightarrow Q$, $Q \rightarrow R$, $R \rightarrow S$, $S \rightarrow Q$.

Then decomposition of R_1 (P,Q), R_2 (Q,R) and R_3 (Q,S) is :

- (1) Dependency Preserving and lossless join
- (2) Lossless Join but not dependency preserving
- (3) Dependency preserving but not lossless Join
- (4) Not dependency preserving and not lossless join

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723753**

Option 1 ID : **53307214609**

Option 2 ID : **53307214610**

Option 3 ID : **53307214611**

Option 4 ID : **53307214612**

Status : **Answered**

Chosen Option : **1**

Q.101 A CPU has a 5-stage pipeline with the following stages Fetch (F), Decode (D), Execute (E), Memory (M) and Write-back (W). Each stage takes one clock cycle to complete. Assume there are no pipeline stalls and the pipeline is initially empty. How many clock cycles are required to complete the execution of 10 instructions ?

- (1) 10
- (2) 14
- (3) 15
- (4) 19

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723764**

Option 1 ID : **53307214653**

Option 2 ID : **53307214654**

Option 3 ID : **53307214655**

Option 4 ID : **53307214656**

Status : **Answered**

Chosen Option : **2**

Q.102

```
#include<iostream.h>
using namespace std;
void swap(int &x, int &y)
{
    int temp=x;
    x=y;
    y=temp;
}
int main()
{
    int a=5, b=10;
    swap(a,b);
    swap(a,b);
    cout<<a<<" "<<b;
    return 0;
}
```

What will be the output of above code ?

- (1) 5, 10
- (2) 10, 5
- (3) 5, 5
- (4) 10, 10

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 5330723732
Option 1 ID : 53307214525
Option 2 ID : 53307214526
Option 3 ID : 53307214527
Option 4 ID : 53307214528
Status : Answered
Chosen Option : 1

Q.103 Arrange the following steps in a proper sequence for the process of training a neural network.

- (A) Weight initialization
- (B) Feed forward
- (C) Back Propagation
- (D) Loss Calculation
- (E) Weight Update

Choose the **correct** answer from the options given below :

- (1) (A), (B), (D), (C), (E)
- (2) (D), (B), (A), (C), (E)
- (3) (A), (C), (D), (B), (E)
- (4) (E), (C), (B), (D), (A)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723779**

Option 1 ID : **53307214713**

Option 2 ID : **53307214714**

Option 3 ID : **53307214715**

Option 4 ID : **53307214716**

Status : **Answered**

Chosen Option : **1**

Q.104 Which of the following statements are TRUE about Process Control Block (PCB) ?

- (A) The PCB contains information about the process state, such as whether it is running, waiting or terminated
- (B) The PCB includes the program code and data segments of the process
- (C) The PCB stores the process's memory management information, such as page tables and segment tables
- (D) The PCB is used to track process scheduling information and CPU registers for process execution

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) Only
- (2) (B), (C) and (D) Only
- (3) (A), (C) and (D) Only
- (4) (A) and (B) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723785**

Option 1 ID : **53307214737**

Option 2 ID : **53307214738**

Option 3 ID : **53307214739**

Option 4 ID : **53307214740**

Status : **Answered**

Chosen Option : **3**

Q.105

Match List - I with List - II.

List - I	List - II
(IP Address)	(Class)
(A) 10.20.30.40	(I) Class E
(B) 210.20.30.3	(II) Class B
(C) 180.30.100.10	(III) Class A
(D) 252.5.15.11	(IV) Class C

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
- (2) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)
- (3) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)
- (4) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **5330723804**
 Option 1 ID : **53307214813**
 Option 2 ID : **53307214814**
 Option 3 ID : **53307214815**
 Option 4 ID : **53307214816**
 Status : **Answered**
 Chosen Option : **4**

Q.106 Consider the function in C code :

```
Cal(a, b) {
    if (b != 1) {
        if (a != 1) {
            printf("*");
            Cal(a/2, b);
        }
        else {
            b = b - 1;
            Cal(10, b);
        }
    }
}
```

How many times * is going to be printed, if the function is called with Cal(10, 10); ?

- (1) 25
- (2) 23
- (3) 24
- (4) 27

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
 Question ID : **5330723733**
 Option 1 ID : **53307214529**
 Option 2 ID : **53307214530**
 Option 3 ID : **53307214531**
 Option 4 ID : **53307214532**
 Status : **Answered**
 Chosen Option : **4**

- Q.107** Consider the following statements regarding combinational and sequential circuits.
- (A) Output of combinational circuits depends on the only current input.
 - (B) Output of combinational circuit depends on the both current input and previous output.
 - (C) Output of sequential circuit depends on the current input.
 - (D) Output of sequential circuit depends on both current input and previous output.

Choose the **correct** answer from the options given below :

- (1) (A) and (C) Only
- (2) (A) and (D) Only
- (3) (B) and (D) Only
- (4) (B) and (C) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723798

Option 1 ID : 53307214789

Option 2 ID : 53307214790

Option 3 ID : 53307214791

Option 4 ID : 53307214792

Status : Answered

Chosen Option : 2

- Q.108** Arrange the following steps in a proper sequence for the typical process of a DNS query :

- (A) Query authoritative DNS Server
- (B) Query local DNS Server
- (C) Local DNS Server Check Cache
- (D) Query root DNS Server
- (E) Query TLD DNS Server

Choose the **correct** answer from the options given below :

- (1) (A), (C), (E), (B), (D)
- (2) (E), (A), (C), (B), (D)
- (3) (A), (B), (C), (D), (E)
- (4) (B), (C), (D), (E), (A)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723778

Option 1 ID : 53307214709

Option 2 ID : 53307214710

Option 3 ID : 53307214711

Option 4 ID : 53307214712

Status : Answered

Chosen Option : 4

Q.109 Match List - I with List - II.

- | List - I
(Recurrence Relations) | List - II
(Complexity) |
|---|--|
| (A) $T(n) = 2T(n/2) + n$ | (I) $T(n) = \theta(n \log n)$ {exact solution} |
| (B) $T(n) = T(n/2) + 1$ | (II) $O(n^2)$ |
| (C) $T(n) = 2T(n/2) + 1$ | (III) $T(n) = \theta(n)$ {exact solution} |
| (D) $T(n) = T(n - 1) + 1$ | (IV) $O(n)$ |

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)
- (2) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
- (3) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)
- (4) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **5330723803**

Option 1 ID : **53307214809**

Option 2 ID : **53307214810**

Option 3 ID : **53307214811**

Option 4 ID : **53307214812**

Status : **Marked For Review**

Chosen Option : **2**

Q.110 Which of the following tasks could be attained using syntax trees in compiler design ?

- (A) Type Checking
- (B) Code Generation
- (C) Code Optimization
- (D) Error Handling

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) Only
- (2) (B), (C), (D) Only
- (3) (A), (C), (D) Only
- (4) (A), (B), (D) Only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **5330723792**

Option 1 ID : **53307214765**

Option 2 ID : **53307214766**

Option 3 ID : **53307214767**

Option 4 ID : **53307214768**

Status : **Answered**

Chosen Option : **3**

Q.111 Arrange the following stages of a Turing Machine (TM) operation in the correct order as they occur during computation.

- (A) Writing a symbol on the tape
- (B) Moving the tape head left to right
- (C) Reading a symbol from the tape
- (D) Transitioning to a new state based on the current state and symbol read
- (E) Halting and accepting or rejecting the input

Choose the **correct** answer from the options given below :

- (1) (C), (A), (B), (D), (E)
- (2) (C), (B), (A), (D), (E)
- (3) (C), (D), (A), (B), (E)
- (4) (C), (D), (B), (A), (E)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723775**

Option 1 ID : **53307214697**

Option 2 ID : **53307214698**

Option 3 ID : **53307214699**

Option 4 ID : **53307214700**

Status : **Answered**

Chosen Option : **3**

Q.112

Consider following C program :

```
#include<stdio.h>
int main()
{
    int x[] = {2, 4, 6, 8, 10};
    int a, b = 0, *y = x + 4;
    for(a = 0; a < 5; a++)
    {
        b = b + (*y - a) - *(y - a);
    }
    printf("%d\n", b);
    return 0;
}
```

What will be the output of the above C program ?

- (1) 4
- (2) 6
- (3) 8
- (4) 10

Options 1.

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723744

Option 1 ID : 53307214573

Option 2 ID : 53307214574

Option 3 ID : 53307214575

Option 4 ID : 53307214576

Status : Answered

Chosen Option : 4

Q.113

A vector processor with 16 lanes can perform an operation on 1024 elements with each operation taking 5 clock cycles. How many cycles are needed to complete the operation ?

- (1) 64
- (2) 80
- (3) 100
- (4) 128

Options 1.

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723765

Option 1 ID : 53307214657

Option 2 ID : 53307214658

Option 3 ID : 53307214659

Option 4 ID : 53307214660

Status : Marked For Review

Chosen Option : 2

Q.114 Given a project with an estimated effort of 1500 person-hours and a team of 5 people, how many days will it take to complete the project, if each person works 8 hours a day ?

- (1) 30
- (2) 37.5
- (3) 40
- (4) 45.5

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723737

Option 1 ID : 53307214545

Option 2 ID : 53307214546

Option 3 ID : 53307214547

Option 4 ID : 53307214548

Status : Answered

Chosen Option : 2

Q.115 In Software configuration management, what is the primary purpose of version control ?

- (1) To control the changes made to software
- (2) To document user requirements
- (3) To estimate project cost
- (4) To design the software architecture

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723734

Option 1 ID : 53307214533

Option 2 ID : 53307214534

Option 3 ID : 53307214535

Option 4 ID : 53307214536

Status : Answered

Chosen Option : 1

Q.116 Arrange the following steps in proper sequence involved in a Genetic Algorithm :

- (A) Selection
- (B) Initialization
- (C) Crossover
- (D) Mutation
- (E) Evaluation

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C), (D), (E)
- (2) (E), (A), (B), (D), (C)
- (3) (B), (E), (A), (C), (D)
- (4) (A), (C), (B), (D), (E)

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723780**

Option 1 ID : **53307214717**

Option 2 ID : **53307214718**

Option 3 ID : **53307214719**

Option 4 ID : **53307214720**

Status : **Answered**

Chosen Option : **3**

Q.117 Arrange the following phases of the Agile process in the correct sequence :

- (A) Design
- (B) Release
- (C) Testing
- (D) Development
- (E) Planning

Choose the **correct** answer from the options given below :

- (1) (A), (B), (D), (E), (C)
- (2) (A), (D), (E), (B), (C)
- (3) (E), (A), (D), (C), (B)
- (4) (E), (D), (A), (C), (B)

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723771**

Option 1 ID : **53307214681**

Option 2 ID : **53307214682**

Option 3 ID : **53307214683**

Option 4 ID : **53307214684**

Status : **Answered**

Chosen Option : **4**

Q.118 Arrange the following steps in the correct order to solve the Knapsack problem using Dynamic Programming.

- (A) Define the base case when the capacity is zero (0) or no items are left to consider
 - (B) Compute the maximum value that can be obtained using items up to the i-th item and a knapsack capacity of 0
 - (C) Identify subproblems and their dependencies based on items weights and values
 - (D) Initialize a table to store results of subproblems
 - (E) Iterate through each item and each possible Capacity to fill the table
- Choose the **correct** answer from the options given below :
- (1) (C), (D), (A), (E), (B)
 - (2) (D), (C), (A), (E), (B)
 - (3) (A), (C), (D), (E), (B)
 - (4) (D), (A), (C), (E), (B)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **5330723773**

Option 1 ID : **53307214689**

Option 2 ID : **53307214690**

Option 3 ID : **53307214691**

Option 4 ID : **53307214692**

Status : **Answered**

Chosen Option : **2**

Q.119 Consider the Grammar :

$$\begin{aligned} S &\rightarrow A \\ A &\rightarrow \$B\$ \mid id \\ B &\rightarrow B, A \mid A \end{aligned}$$

If $I_0 = \text{CLOSURE } (\{[S \rightarrow .A]\})$ then, how many items be in the set for $\text{GOTO}(I_0, \$)$

- (1) 3
- (2) 4
- (3) 5
- (4) 6

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **5330723726**

Option 1 ID : **53307214501**

Option 2 ID : **53307214502**

Option 3 ID : **53307214503**

Option 4 ID : **53307214504**

Status : **Answered**

Chosen Option : **1**

Q.120 Given a project that uses the COCOMO model with an estimated effort of 2000 person-months and a productivity rate of 5 person-month per KLOC, what is the estimated size of the project in KLOC ?

- (1) 200
- (2) 400
- (3) 100
- (4) 50

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723736

Option 1 ID : 53307214541

Option 2 ID : 53307214542

Option 3 ID : 53307214543

Option 4 ID : 53307214544

Status : Answered

Chosen Option : 3

Q.121 Which of the following best describes the structure of a relational database ?

- (1) Data organized into tables with rows and columns
- (2) Data organized into files and folders
- (3) Data organized into a hierarchical tree structure
- (4) Data organized into a network of interconnected nodes

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723752

Option 1 ID : 53307214605

Option 2 ID : 53307214606

Option 3 ID : 53307214607

Option 4 ID : 53307214608

Status : Answered

Chosen Option : 1

Q.122**Match List - I with List - II.****List - I**

- | | |
|---------------------------------|----------------------|
| (A) Representation of bits | (I) Transport layer |
| (B) Physical Address | (II) Physical layer |
| (C) Logical Address | (III) Network layer |
| (D) Segmentation and reassembly | (IV) Data link layer |

List - IIChoose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)
- (3) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
- (4) (A)-(I), (B)-(IV), (C)-(III), (D)-(II)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **5330723809**Option 1 ID : **53307214833**Option 2 ID : **53307214834**Option 3 ID : **53307214835**Option 4 ID : **53307214836**Status : **Answered**Chosen Option : **2****Q.123**Consider the given number $(45)_y$, where y is the base of the number. Some of the possible values of y are given below.

- (A) 5
- (B) 6
- (C) 7
- (D) 8

Choose the **correct** answer from the options given below :

- (1) (A), (B) and (C) Only
- (2) (B), (C) and (D) Only
- (3) (A), (C) and (D) Only
- (4) (A), (B), (C) and (D)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**Question ID : **5330723783**Option 1 ID : **53307214729**Option 2 ID : **53307214730**Option 3 ID : **53307214731**Option 4 ID : **53307214732**Status : **Answered**Chosen Option : **2**

Q.124

Consider the following C code :

```
#include<stdio.h>
int temp = 0;
int fun(int x, int y)
{
    int z; temp++;
    if (y == 3) return(x*x*x);
    else {
        z = fun(x, y/3);
        return(z*z*z);
    }
}
int main()
{
    fun(4, 81);
    printf("%d", temp);
}
```

What will be the output of the above code ?

- (1) 3
- (2) 4
- (3) 5
- (4) 6

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723731

Option 1 ID : 53307214521

Option 2 ID : 53307214522

Option 3 ID : 53307214523

Option 4 ID : 53307214524

Status : Marked For Review

Chosen Option : 3

Q.125 Translate $\forall x \exists y (x < y)$ in English. Consider domain as a real number for both the variables.

- (1) For all real numbers x , there exists a real number y such that x is less than y
- (2) For every real numbers y , there exists a real number x such that x is less than y
- (3) For some real numbers x , there exists a real number y such that x is less than y
- (4) For each and every real numbers x and y , x is less than y

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723762

Option 1 ID : 53307214645

Option 2 ID : 53307214646

Option 3 ID : 53307214647

Option 4 ID : 53307214648

Status : Answered

Chosen Option : 1

Q.126 Consider the transactions T_1 , T_2 , T_3 and the schedules S_1 and S_2 given below.

$T_1 : r_1(x); r_1(z); w_1(z)$

$T_2 : r_2(y); r_2(z); w_2(z)$

$T_3 : r_3(y); r_3(x); w_3(y)$

$S_1 : r_1(x); r_3(y); r_3(x); r_2(y); r_2(z); w_3(y); w_3(z);$
 $r_1(z); w_1(x); w_1(z)$

$S_2 : r_1(x); r_3(y); r_2(y); r_3(x); r_1(z); r_2(z); w_3(y);$
 $w_1(x); w_2(z); w_1(z)$

Which one of the following statements about the schedules is TRUE ?

- (1) Only S_1 is conflict-serializable
- (2) Only S_2 is conflict-serializable
- (3) Both S_1 and S_2 are conflict-serializable
- (4) Neither S_1 nor S_2 is conflict-serializable

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723757

Option 1 ID : 53307214625

Option 2 ID : 53307214626

Option 3 ID : 53307214627

Option 4 ID : 53307214628

Status : Answered

Chosen Option : 3

Q.127 Consider a CSMA/CD network that transmits data at the rate of 100 Mbps over a 1 Kilometre cable with no repeater. If the minimum frame size required for this network is 1250 bytes, what is the signal speed (km/sec) in the cable.

- (1) 8000
- (2) 16000
- (3) 12000
- (4) 20000

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723742

Option 1 ID : 53307214565

Option 2 ID : 53307214566

Option 3 ID : 53307214567

Option 4 ID : 53307214568

Status : Answered

Chosen Option : 3

Q.128 Out the following steps in the proper sequence for simplifying a Boolean function using a Karnaugh map (K-map).

- (A) Identify and group the largest possible cluster of 1's
- (B) Draw the K-map for the given Boolean function
- (C) Write the simplified Boolean expression from the grouped clusters
- (D) Transfer the truth table values to the K-map

Choose the **correct** answer from the options given below :

- (1) (B), (D), (A), (C)
- (2) (D), (B), (A), (C)
- (3) (B), (A), (D), (C)
- (4) (A), (B), (C), (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723767

Option 1 ID : 53307214665

Option 2 ID : 53307214666

Option 3 ID : 53307214667

Option 4 ID : 53307214668

Status : Answered

Chosen Option : 1

Q.129 Match List - I with List - II.

- | List - I
(software design principles) | List - II
(Definition) |
|--|--|
| (A) Cohesion | (I) Degree to which one module relies on another module. |
| (B) Coupling | (II) Dividing a software system into distinct modules. |
| (C) Abstraction | (III) Degree to which elements of a module belong together. |
| (D) Modularity | (IV) Simplifying complex reality by modeling classes appropriate to the problem. |

Choose the **correct** answer from the options given below :

- (1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **5330723811**

Option 1 ID : **53307214841**

Option 2 ID : **53307214842**

Option 3 ID : **53307214843**

Option 4 ID : **53307214844**

Status : **Answered**

Chosen Option : **3**

Q.130 In a token ring network the transmission speed is 10^7 bps and the propagation speed is 200 m/ μ s. The 1-bit delay in this network is equivalent to _____.

- (1) 20 m
- (2) 30 m
- (3) 50 m
- (4) 40 m

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **5330723741**

Option 1 ID : **53307214561**

Option 2 ID : **53307214562**

Option 3 ID : **53307214563**

Option 4 ID : **53307214564**

Status : **Answered**

Chosen Option : **1**

Q.131 What will be the output of the following C code?

```
#include<stdio.h>
void main()
{
    int arr[5]={10, 20, 30, 40, 50};
    int *p=(int*)(&arr+1);
    printf("%d%d", *(arr+1), *(p-1));
}
```

(1) 10 50
(2) 20 50
(3) 30 40
(4) 20 40

Options

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **5330723746**
Option 1 ID : **53307214581**
Option 2 ID : **53307214582**
Option 3 ID : **53307214583**
Option 4 ID : **53307214584**
Status : **Answered**
Chosen Option : **4**

Q.132

What is the output of code given below :

```
#include<iostream.h>
using namespace std;
class Base {
public:
Base(){
    cout<<"Base Const";
}
virtual ~Base()
{
    cout<<"Base dest";
}
};

class derived : public Base {
public:
Derived() {
    cout<<"Derived Const";
}
~Derived() {
    cout<<"Derived dest";
}
};

int main()
{
    Base *b = new Derived();
    delete b;
    return 0;
}
```

- (1) Base Const Derived Const Derived dest Base dest
- (2) Base Const Derived Const Base dest Derived dest
- (3) Derived Const Base Const Base dest Derived dest
- (4) Base Const Derived Const Base dest

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723747

Option 1 ID : 53307214585

Option 2 ID : 53307214586

Option 3 ID : 53307214587

Option 4 ID : 53307214588

Status : Marked For Review

Chosen Option : 4

Q.133 If L_1 and L_2 are context free languages, which of the following is True about $L_1 \cap L_2$?

- (1) $L_1 \cap L_2$ is context free
- (2) $L_1 \cap L_2$ is Regular
- (3) $L_1 \cap L_2$ is Recursively Enumerable
- (4) $L_1 \cap L_2$ is Context Sensitive

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723728

Option 1 ID : 53307214509

Option 2 ID : 53307214510

Option 3 ID : 53307214511

Option 4 ID : 53307214512

Status : Answered

Chosen Option : 1

Q.134 Let P be "It is hot day" and q be "The temperature is 48°C ". Write in simple sentences the meaning of $\sim p \wedge \sim q$.

- (1) It is hot day or tempreature is 48°C
- (2) It is cold day or tempreature is 48°C
- (3) It is neither a hot day nor temperature is 48°C
- (4) It is not a hot day

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723760

Option 1 ID : 53307214637

Option 2 ID : 53307214638

Option 3 ID : 53307214639

Option 4 ID : 53307214640

Status : Answered

Chosen Option : 3

Q.135 Consider the three way hand shaking process followed during TCP connection establishment between two hosts A and B. Let S and R be two random 32-bit starting sequence numbers chosen by A and B, respectively. Suppose A sends a TCP segment having SYN bit=1, SEQ number=S and ACK bit=0 and B accepts the connection request.

Which one of the following choices represents the information present in the TCP segment header that is sent by B to A ?

- (1) SYN bit=1, SEQ number=S+1, ACK bit=0, ACK number=R, FiN bit=0
- (2) SYN bit=0, SEQ number=R, ACK bit=1, ACK number=S+1, FiN bit=0
- (3) SYN bit=1, SEQ number=R, ACK bit=1, ACK number=S+1, FiN bit=0
- (4) SYN bit=1, SEQ number=R, ACK bit=1, ACK number=S, FiN bit=0

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 5330723738

Option 1 ID : 53307214549

Option 2 ID : 53307214550

Option 3 ID : 53307214551

Option 4 ID : 53307214552

Status : Marked For Review

Chosen Option : 3

Q.136 A coin is tossed successively three times. Find the Probability (P), Event (E), Sample space (S) of getting exactly one head or two heads, where n is number of occurrence.

- (A) $n(S) = 8$ and $n(E) = 4$
- (B) $n(E) = 6$ and $n(S) = 8$
- (C) $P(E) = \frac{3}{4}$
- (D) $P(E) = \frac{1}{2}$

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) and (D)
- (2) (B) and (C) Only
- (3) (A) and (D) Only
- (4) (C) and (D) Only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723782

Option 1 ID : 53307214725

Option 2 ID : 53307214726

Option 3 ID : 53307214727

Option 4 ID : 53307214728

Status : Answered

Chosen Option : 2

Q.137 Match List - I with List - II.

- | List - I | List - II |
|-------------------------------|---|
| (A) Dijkstra's Algorithms | (I) Find the shortest path between all pairs of vertices in a graph with positive or negative edge weights. |
| (B) Floyd-Warshall Algorithms | (II) Finds the shortest path in a weighted graph with non-negative edge weights. |
| (C) Bellman-frod Algorithms | (III) Sorts elements by repeatedly moving them past neighboring elements that are smaller. |
| (D) Prim's Algorithms | (IV) Determines the strongest connected components in a directed graph. |

Choose the **correct** answer from the options given below :

- (1) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
- (2) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)
- (3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- (4) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723810

Option 1 ID : 53307214837

Option 2 ID : 53307214838

Option 3 ID : 53307214839

Option 4 ID : 53307214840

Status : Answered

Chosen Option : 1

Q.138 Arrange the following phases of database design in the correct order :

- (A) Physical Design
- (B) Conceptual Design
- (C) Logical Design
- (D) Requirement Analysis

Choose the **correct** answer from the options given below :

- (1) (B), (D), (A), (C)
- (2) (C), (A), (B), (D)
- (3) (D), (B), (C), (A)
- (4) (A), (D), (C), (B)

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723766

Option 1 ID : 53307214661

Option 2 ID : 53307214662

Option 3 ID : 53307214663

Option 4 ID : 53307214664

Status : Answered

Chosen Option : 3

Q.139 Which of the following are typical activities in the software process lifecycle ?

- (A) Requirement Analysis
- (B) System Design
- (C) Code Refactoring
- (D) Deployment
- (E) Substructure

Choose the **correct** answer from the options given below :

- (1) (A), (B), (C) Only
- (2) (B), (C), (D) Only
- (3) (A), (B), (D) Only
- (4) (A), (D), (E) Only

Options 1.1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723794

Option 1 ID : 53307214773

Option 2 ID : 53307214774

Option 3 ID : 53307214775

Option 4 ID : 53307214776

Status : Answered

Chosen Option : 3

Q.140 40 software professionals were interviewed for a job. 25 knew PYTHON 20 knew JAVA and 7 knew neither language. How many knew both languages ?

- (1) 20
- (2) 53
- (3) 10
- (4) 88

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723759

Option 1 ID : 53307214633

Option 2 ID : 53307214634

Option 3 ID : 53307214635

Option 4 ID : 53307214636

Status : Answered

Chosen Option : 3

Comprehension:

Read the below passage and answer the questions .

Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers : an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No : 141

Q.141 Which of the following layers may be more than one in number ?

- (1) Input layer
- (2) Hidden layer
- (3) Output layer
- (4) Physical layer

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723819

Option 1 ID : 53307214869

Option 2 ID : 53307214870

Option 3 ID : 53307214871

Option 4 ID : 53307214872

Status : Answered

Chosen Option : 2

Comprehension:

Read the below passage and answer the questions .

Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers : an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No : 142**Q.142**

What is the role of Back Propagation Algorithm ?

- (1) To reduce error
- (2) To secure network
- (3) To control speed of data
- (4) To add different layers

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723817

Option 1 ID : 53307214861

Option 2 ID : 53307214862

Option 3 ID : 53307214863

Option 4 ID : 53307214864

Status : Answered

Chosen Option : 1

Comprehension:

Read the below passage and answer the questions .

Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers : an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No : 143**Q.143**

What is the role of weights in an ANN ?

- (1) To store data
- (2) To adjust and improve network performance
- (3) To control the speed
- (4) To secure the network

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723820

Option 1 ID : 53307214873

Option 2 ID : 53307214874

Option 3 ID : 53307214875

Option 4 ID : 53307214876

Status : Answered

Chosen Option : 2

Comprehension:

Read the below passage and answer the questions .

Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers : an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No : 144

Q.144 Which of the following is/are the application area(s) of ANN ?

- (A) Natural Language Processing
- (B) Image Processing
- (C) Pattern Recognition
- (D) Speech Recognition

Choose the **correct** answer from the options given below :

- (1) (A) and (B) Only
- (2) (B) and (C) Only
- (3) (A), (B) and (C) Only
- (4) (A), (B), (C) and (D)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **5330723821**

Option 1 ID : **53307214877**

Option 2 ID : **53307214878**

Option 3 ID : **53307214879**

Option 4 ID : **53307214880**

Status : **Answered**

Chosen Option : **4**

Comprehension:

Read the below passage and answer the questions .

Artificial Neural Networks (ANNs) are computational models inspired by the human brain's neural networks. They consist of inter-connected nodes, or neurons, organized into layers : an input layers, one or more hidden layers and an output layers. Each connection between neurons has a weight that adjusts as learning progresses allowing the network to adopt and improve its performance. ANNs are particularly effective in recognizing patterns making them valuable for tasks such as image and speech recognition, Natural language processing and predictive analytics. Learning in ANNs typically involves training algorithms like back propagation, which minimize the error by adjusting the weights. As a subset of machine learning, ANNs have revolutionized the field of Artificial Intelligence by providing solutions to complex problems that traditional algorithms struggle with.

SubQuestion No : 145**Q.145**

Artificial Neural Networks (ANNs) are inspired by :

- (1) Quantum mechanics
- (2) Human brain's neural network
- (3) Computer Hardware architecture
- (4) Genetic algorithm

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723818

Option 1 ID : 53307214865

Option 2 ID : 53307214866

Option 3 ID : 53307214867

Option 4 ID : 53307214868

Status : Answered

Chosen Option : 2

Comprehension:

Read the below passage and answer the questions .

The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No : 146

Q.146 Which data structure does the Banker's Algorithm use to maintain the state of available, maximum and allocated resources ?

- (1) Priority Queue
- (2) Hash table
- (3) Wait-for-Graph
- (4) Matrices and Vectors

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723827

Option 1 ID : 53307214897

Option 2 ID : 53307214898

Option 3 ID : 53307214899

Option 4 ID : 53307214900

Status : Answered

Chosen Option : 2

Comprehension:

Read the below passage and answer the questions .

The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No : 147

Q.147 What is the significance of the Banker's algorithm in terms of resource management ?

- (1) It ensures that all processes can finish their execution without deadlock.
- (2) It eliminates the need for processes to request resources.
- (3) It accelerates the execution of critical sections in processes.
- (4) It minimizes the number of context switches between processes.

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723826

Option 1 ID : 53307214893

Option 2 ID : 53307214894

Option 3 ID : 53307214895

Option 4 ID : 53307214896

Status : Answered

Chosen Option : 1

Comprehension:

Read the below passage and answer the questions .

The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No : 148

Q.148 What information is used to determine if a resource request can be granted ?

- (1) Available resources and current allocation of each process
- (2) CPU utilization of each process
- (3) Number of processes waiting for resources
- (4) Arrival time of each process

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723823

Option 1 ID : 53307214881

Option 2 ID : 53307214882

Option 3 ID : 53307214883

Option 4 ID : 53307214884

Status : Answered

Chosen Option : 1

Comprehension:

Read the below passage and answer the questions .

The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No : 149

Q.149 Which of the following is NOT a requirement for Banker's algorithm to grant a resource request ?

- (1) The requested resources must be available.
- (2) The system must be in a safe state after granting the request.
- (3) The request must not exceed the maximum resources the process can request.
- (4) The process must be the only one requesting resources.

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723825

Option 1 ID : 53307214889

Option 2 ID : 53307214890

Option 3 ID : 53307214891

Option 4 ID : 53307214892

Status : Answered

Chosen Option : 4

Comprehension:

Read the below passage and answer the questions .

The Banker's Algorithm is a critical deadlock avoidance method in operating systems, designed to facilitate resource allocation without causing deadlock. It operates by maintaining information about the maximum resources. Each process may require, the current allocated resources and the available resources in the system. The algorithm checks each resource request to determine, if granting it would leave the system in a safe state, meaning that there is always a sequence in which all processes can complete their execution without getting stuck due to resource unavailability. Each process must specify its maximum demand for each resource type before it starts execution. When a process requests additional resources, the algorithm checks if granting the request will keep the system in a safe state. If so, the resources are allocated otherwise the process must wait until its request can be safely fulfilled.

SubQuestion No : 150**Q.150**

What is the primary goal of the Banker's Algorithm ?

- (1) To allocate resources optimally
- (2) To prevent processes from requesting resources
- (3) To detect and recover from deadlocks
- (4) To maximise CPU utilization

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 5330723824

Option 1 ID : 53307214885

Option 2 ID : 53307214886

Option 3 ID : 53307214887

Option 4 ID : 53307214888

Status : Answered

Chosen Option : 1

UGC-NET Answer Key Evaluation Results

Question ID	Answer	Response	Status
5330723677	4	2	Incorrect
5330723678	1	3	Incorrect
5330723675	1	1	Correct
5330723679	3	1	Incorrect
5330723676	4	4	Correct
5330723705	2	2	Correct
5330723689	4	4	Correct
5330723686	4	4	Correct
5330723696	4	3	Incorrect
5330723697	1	1	Correct
5330723694	4	4	Correct
5330723682	3	3	Correct
5330723693	3	3	Correct
5330723709	3	2	Incorrect
5330723708	3	3	Correct
5330723711	4	4	Correct
5330723698	2	2	Correct
5330723684	1	1	Correct
5330723716	2	2	Correct
5330723690	1	3	Incorrect
5330723695	3	2	Incorrect
5330723681	3	3	Correct
5330723688	3	3	Correct
5330723700	2	1	Incorrect
5330723718	3	3	Correct
5330723707	4	4	Correct
5330723714	1	4	Incorrect
5330723702	2	2	Correct
5330723715	4	1	Incorrect
5330723713	2	2	Correct
5330723706	2	2	Correct

5330723680	4	4	Correct
5330723692	1	1	Correct
5330723710	2	2	Correct
5330723717	3	1	Incorrect
5330723691	1	1	Correct
5330723685	3	4	Incorrect
5330723687	4	4	Correct
5330723699	3	1	Incorrect
5330723704	4	1	Incorrect
5330723703	3	4	Incorrect
5330723719	2	2	Correct
5330723683	4	4	Correct
5330723712	2	2	Correct
5330723701	3	3	Correct
5330723721	2	2	Correct
5330723722	1	1	Correct
5330723724	3	3	Correct
5330723725	4	4	Correct
5330723723	4	4	Correct
5330723800	1	1	Correct
5330723745	2	1	Incorrect
5330723769	3	3	Correct
5330723750	2	2	Correct
5330723789	2	2	Correct
5330723815	3	3	Correct
5330723776	2	2	Correct
5330723812	2	2	Correct
5330723748	1	3	Incorrect
5330723756	1	1	Correct
5330723788	1	1	Correct
5330723727	3	3	Correct
5330723796	2	2	Correct
5330723795	1	1	Correct
5330723814	3	3	Correct
5330723801	4	3	Incorrect

5330723802	3	3	Correct
5330723797	4	4	Correct
5330723793	4	2	Incorrect
5330723749	1	2	Incorrect
5330723805	3	3	Correct
5330723813	2	2	Correct
5330723808	3	3	Correct
5330723740	3	1	Incorrect
5330723768	2	2	Correct
5330723786	1	1	Correct
5330723774	2	2	Correct
5330723735	3	3	Correct
5330723729	3	3	Correct
5330723790	2	2	Correct
5330723777	1	1	Correct
5330723755	3	1	Incorrect
5330723758	1	1	Correct
5330723806	3	3	Correct
5330723784	1	1	Correct
5330723787	1	1	Correct
5330723763	1	3	Incorrect
5330723761	1	2	Incorrect
5330723772	2	2	Correct
5330723730	2	3	Incorrect
5330723791	4	4	Correct
5330723770	4	4	Correct
5330723743	1	1	Correct
5330723754	4	4	Correct
5330723751	2	2	Correct
5330723781	1	1	Correct
5330723807	3	3	Correct
5330723739	3	4	Incorrect
5330723799	4	4	Correct
5330723753	1	1	Correct
5330723764	2	2	Correct

5330723732	1	1	Correct
5330723779	1	1	Correct
5330723785	3	3	Correct
5330723804	4	4	Correct
5330723733	4	4	Correct
5330723798	2	2	Correct
5330723778	4	4	Correct
5330723803	3	2	Incorrect
5330723792	1	3	Incorrect
5330723775	3	1	Incorrect
5330723744	4	4	Correct
5330723765	1	2	Incorrect
5330723737	2	2	Correct
5330723734	1	1	Correct
5330723780	3	3	Correct
5330723771	3	4	Incorrect
5330723773	3	2	Incorrect
5330723726	3	1	Incorrect
5330723736	2	3	Incorrect
5330723752	1	1	Correct
5330723809	2	2	Correct
5330723783	2	2	Correct
5330723731	2	3	Incorrect
5330723762	1	1	Correct
5330723757	1	3	Incorrect
5330723742	4	3	Incorrect
5330723767	1	1	Correct
5330723811	3	3	Correct
5330723741	1	1	Correct
5330723746	2	4	Incorrect
5330723747	1	4	Incorrect
5330723728	3	1	Incorrect
5330723760	3	3	Correct
5330723738	3	3	Correct
5330723782	2	2	Correct

5330723810	2	1	Incorrect
5330723766	3	3	Correct
5330723794	3	3	Correct
5330723759	1	3	Incorrect
5330723819	2	2	Correct
5330723817	1	1	Correct
5330723820	2	2	Correct
5330723821	4	4	Correct
5330723818	2	2	Correct
5330723827	4	2	Incorrect
5330723826	1	1	Correct
5330723823	1	1	Correct
5330723825	4	4	Correct
5330723824	1	1	Correct