

PREVIEW QUESTION BANK

Module Name : Computer Application-ENG
Exam Date : 09-Jul-2023 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	2001	Which one of the following is not one of the features of parliamentary form of government? 1. Majority party rule 2. Collective Responsibility 3. Integrated and Independent Judiciary 4. Dissolution of the lower house A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	2002	Which of the following term implies that 'India is a neither a dependency nor a dominion of any other nation'? 1. Socialist 2. Sovereign 3. Secular 4. Democratic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	2003	Which of the following form the maximum water composition on the earth's surface? 1. Oceans 2. Ice caps 3. Glaciers 4. Lakes A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		
Objective Question				
4	2004	Which one of the following does not fall under the category of 'biomes? 1. Forest 2. Sky 3. Desert 4. Grassland A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	2005	IUCN publishes information about which of the following species as Red List of threatened species? 1. Endangered Species 2. Vulnerable Species 3. Extinct Species 4. Rare Species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	2006	Who was the first Indian to win an individual medal in Olympics? 1. Milkha Singh 2. Karnam Malleshwari 3. P. T. Usha 4. K. D. Jadhav A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
7	2007	Who among the following reformers founded "Arya Samaj"? 1. Raja Ram Mohan Roy 2. Swami Dayananda Saraswati 3. Atmaram Pandurang 4. Ishwarchandra Vidyasagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	2008	What does "Triratna" mean in Buddhism? 1. Tripitaka 2. Buddha, Dhamma (dharma), Sangha 3. Satya, Ahimsa, Karuna 4. Sheel, Samadhi, Sangha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	2009	Who started the Indian Reforms Association? 1. Narayan Guru 2. Swami Vivekananda 3. Krishna swami Aiyar 4. Keshav Chandra Sen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

10	2010	Consider the following statements (A). UN General Assembly has declared 2023 as the international year of millets (B). Odisha govt. ropes in FICCI to promote millets globally (C). Odisha Millets Mission is a flagship programme of the Odisha government to revive millets in farms and on plates Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (B) and (C) only. 3. (A) and (C) only. 4. (A), (B) and (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	------	---	-----	------

Objective Question

11	2011	Phomopsis blight occurs in which of the following crops? 1. Brinjal 2. Bajra 3. Sugarcane 4. Potato A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	------	---	-----	------

Objective Question

12	2012	Endemic pests can be described as? 1. Pest occurs in a few specific area. 2. Pest occurs in same area, year after year. 3. Pest occurs frequently in current season in abundance. 4. Pest occurs in severe form. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
----	------	--	-----	------

		A4 : 4		
Objective Question				
13	2013	Which country is the largest producer of raw silk? 1. Japan 2. India 3. China 4. South Korea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
14	2014	Transfer of Ownership is the example of which utility..... 1. Time utility 2. Place utility 3. Possession utility 4. Form utility A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
15	2015	What happens to the total number of chromosomes during mitotic cell division? 1. gets doubled 2. gets halved 3. remains the same 4. divides into four A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

16	2016	What is the minimum forest cover to be maintained as per the National Forest Policy, 1988?	4.0	1.00
		1. One-half 2. One-third 3. One-fourth 4. Two-third		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

17	2017	Who among the following is known as the "Father of Agronomy"?	4.0	1.00
		1. Stephen Hales 2. Gregor Johann Mendel 3. Peter Decresenzi 4. D N Walia		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

18	2018	Which of the following plant hormones helps in shoot elongation?	4.0	1.00
		1. Auxin 2. Gibberellic acid 3. Absciscic acid 4. Cytokinin		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

19	2019		4.0	1.00
----	------	--	-----	------

		Select from the following the chemical property of soil..... 1. Colour 2. pH 3. Texture 4. Structure A1 : 1 A2 : 2 A3 : 3 A4 : 4		
--	--	--	--	--

Objective Question

20	2020	The process of separating quality grains from chaff is called as..... 1. Winnowing 2. Threshing 3. Harvesting 4. Tilling A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	------	--	-----	------

Objective Question

21	191001	The mean and the median of the ten numbers in increasing order 10, 22, 26, 29, 34, x, 42, 67, 70, y are 42 and 35 respectively, then y/x is equal to 1. $9/4$ 2. $7/2$ 3. $8/3$ 4. $7/3$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

22	191002		4.0	1.00
----	--------	--	-----	------

If X follows Normal distribution with mean 4 and variance 100, then the distribution of $Y = \frac{1}{2} \left(\frac{X-4}{10} \right)^2$ is

1. Exponential with mean 4
2. Chi square with one degree of freedom
3. Gamma distribution with parameter 1/2
4. Normal with mean 4 and variance 10

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23 191003

If the correlation coefficients of zero order in a set of 3 variates were equal to ρ each, then the multiple correlation $R_{1.23}^2$ is equal to

1. ρ
2. $\frac{2\rho^2}{1+\rho}$
3. $\frac{\rho^2}{1+\rho}$
4. +1

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

24 191004

X is a random variable with $EX = 3$ and $EX^2 = 13$. If Q be the probability of the event: $-2 \leq X \leq 8$, then which one of the following statements follows from Chebychev's inequality?

1. $Q \geq 0.84$
2. $Q \leq 0.84$
3. $Q \geq 0.36$
4. $Q \leq 0.16$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

25	191005	Let 4, 2, 2, 5, 1, 2, 4, 3, 2, 5 be a sample of size 10 from a population following Poisson (λ) distribution. The UMVUE of λ is 1. 40 2. 8 3. 4 4. 3 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	--	-----	------

Objective Question

26	191006	Consider the following statements for a test of significance: (A). Size = 1 - P (Type I error) (B). Power = 1 - P (Type II error) (C). Power = P (Type II error) (D). Size = P (Type I error) Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (C) and (D) only. 3. (A) and (C) only. 4. (B) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

27	191007		4.0	1.00
----	--------	--	-----	------

Consider the 2 x 2 contingency table on two attributes A and B

	A ₁	A ₂
B ₁	10	20
B ₂	30	40

What is the value of χ^2 for testing the independence of the attributes A and B?

1. 0.79
2. 0.81
3. 0.83
4. 0.85

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

28 191008

4.0 1.00

Which of the following tests should be employed for deciding whether or not two samples come from the same skewed parent population?

- (A). Paired t-test
- (B). t-test
- (C). Run test
- (D). Sign test

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

29 191009

4.0 1.00

A test in which decision about H_0 is taken after each successive observation is known as

1. Bayes' test
2. Likelihood ratio test
3. Sequential probability ratio test
4. Student's ratio test

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30 191010

4.0 1.00

The following ANOVA table is obtained for a two variable linear regression:

Source of variation	Degrees of freedom	Sum of squares
Regression	1	122.5
Residual	3	77.5
Total	4	200

The correlation between the regressor and the regressand is

1. 0.3875
2. 0.6125
3. 0.6225
4. 0.7826

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31 191011

4.0 1.00

The total number of second and third order interactions in 2^5 factorial experiment are

1. 20
2. 15
3. 10
4. 5

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32	191012	Which one of the following is reduced by confounding in a factorial experiment? 1. Non-sampling error 2. Sampling error 3. Standard error 4. Experimental error A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

33	191013	The efficiency of SRSWOR with respect to SRSWR is (here N and n are population and sample sizes respectively) 1. $\frac{N-n}{N-1}$ 2. $\frac{N-1}{n-1}$ 3. $\frac{n-1}{N-1}$ 4. $\frac{N-1}{N-n}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

34	191014		4.0	1.00
----	--------	--	-----	------

A simple random sample of size 10 is selected with replacement from a population of size 100. What is the expected number of unique elements in the sample?

1. $100 \times \left(\frac{99}{100}\right)^{10}$

2. $100 \times \left[1 - \left(\frac{99}{100}\right)^{10}\right]$

3. $100 \times \left(\frac{9}{10}\right)^{10}$

4. $100 \times \left(1 - \frac{99}{100}\right)^{10}$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35 191015

In large samples, with simple random sampling, the ratio estimator of the population mean is more precise than the sample mean. If suppose the correlation coefficient between X and Y, $\rho > 3/8$, then the relationship between C_x and C_y is (here, C_x and C_y are coefficients of variation of x and y respectively)

1. $C_y = C_x$

2. $C_y = 2C_x$

3. $3C_y = 4C_x$

4. $4C_y = 3C_x$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

36 191016

In families of three children, what is the probability of finding the oldest child to be a girl and the youngest, a boy?

1. $1/2$

2. $1/3$

3. $1/4$

4. $1/6$

A1 : 1

4.0 1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

37	191017	A type of allelic interaction in which the phenotype of the heterozygote is outside the phenotypic limit of the corresponding homozygotes is called 1. Complete dominance 2. Incomplete dominance 3. Overdominance 4. Additive genes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	--	-----	------

Objective Question

38	191018	Yellow body colour in <i>Drosophila</i> is governed by a sex-linked recessive gene; wild-type colour is produced by its dominant allele. A sample from a Hardy-Weinberg population contained 1021 wild-type males, 997 wild-type females, and 3 yellow males. The percentage of gene pool represented by the yellow allele is estimated to be 1. 0.04 2. 0.16 3. 0.21 4. 0.29 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

39	191019		4.0	1.00
----	--------	--	-----	------

Let R be a relation schema and let X and Y be non-empty sets of attributes in R. We say that an instance r of R satisfies the following for every pair of tuples t_1 and t_2 in r:

If $t_1:X = t_2:X$, then $t_1:Y = t_2:Y$

The above is a kind of integrity constraint that generalizes the concept of a key called

1. No Dependency
2. Independency
3. Transitive Dependency
4. Functional Dependency

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

40 191020

4.0 1.00

Neighbor-joining method is used for

1. Carbohydrate Structure Prediction
2. Protein Structure Prediction
3. Phylogenetic Tree Construction
4. Primer Designing

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

41 191021

4.0 1.00

Which of the following is miRNA sequence database?

1. EMBL
2. miRanda
3. miRBase
4. miRData

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42	191022	RNA is made up of following molecules except 1. Phosphate 2. Pentose Sugar 3. Thymine 4. Uracil A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

43	191023	At what position of DNA, Phosphate is attached? 1. 1' 2. 2' 3. 3' 4. 5' A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

44	191024	Which of the following molecules takes part in splicing? 1. Pre-mRNA 2. tRNA 3. miRNA 4. siRNA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	--	-----	------

Objective Question

45	191025		4.0	1.00
----	--------	--	-----	------

Dynamic Programming algorithm is used in

1. Protein-protein interaction network
2. Pairwise Alignment of nucleotide sequences
3. 2D Structure Prediction of protein
4. 3D Structure Prediction of protein

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46	191026	In comparison to Position Specific Scoring Matrices (PSSM), Hidden Markov Model (HMM) is 1. Equally sensitive to detect homology 2. More sensitive to detect homology 3. Less sensitive to detect homology 4. Not able to detect homology A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

47	191027	Which of the following is a repository for 3D structure of macromolecules? 1. EMBL-Bank 2. RefSeq 3. PDB 4. Swiss-Prot A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	--	-----	------

Objective Question

48	191028		4.0	1.00
----	--------	--	-----	------

Consider the following statements about BLOSUM (BLOcks SUBstitution Matrix) matrices:

(A). It was first introduced by Henikoff and Henikoff.

(B). Local multiple alignments of more distantly related sequences were used to create BLOSUM.

(C). BLOSUM matrices are derived from PROSITE signatures of the BLOCKS database.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

49	191029	Given below are two statements: Statement (I): Orthologs are homologous sequences in different species that arose from a common ancestral gene during speciation. Statement (II): Paralogs are homologous sequences that arose by a mechanism such as gene duplication. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

50	191030		4.0	1.00
----	--------	--	-----	------

Match **List-I** with **List-II**

List-I	List-II
(A). Geno3D	(I). A web-based GenBank sequence submission tool
(B). PAUP	(II). Comparative protein structure modelling server
(C). Rasmol	(III). Standard program for phylogenetic analysis
(D). BankIT	(IV). Multi-conformer docking program
(E). FRED	(V). Molecular viewer

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

51 191031

4.0 1.00

Which of the following cannot be used for protein structure prediction by comparative modelling?

1. 3Djigsaw
2. ESyPred3D
3. Swiss-Model
4. MEGA

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

52 191032

4.0 1.00

Given below are two statements regarding methods for reconstructing phylogenetic trees:

Statement (I): The neighbour-joining method does not assume all sequences have the same constant rate of evolution over time, and this method is related to the concept of minimum evolution.

Statement (II): The Fitch-Margoliash method does not make assumptions of constant mutation rate, and this method produces a rooted ultrameric tree.

In light of the above statements, choose the *most appropriate* answer from the options given below.

1. Both Statement (I) and Statement (II) are true.
2. Both Statement (I) and Statement (II) are false.
3. Statement (I) is true but Statement (II) is false.
4. Statement (I) is false but Statement (II) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

53	191033	What is cout in C++? 1. Function 2. Object 3. Macro 4. Operator A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

54	191034	Given below are two statements: Statement (I): Techniques based on self-organizing maps (SOMs) which is a form of supervised neural network, can be used for analysis of microarray gene expression data. Statement (II): Self-organizing tree algorithm (SOTA) determines the number of clusters required in gene expression data analysis. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true.	4.0	1.00
----	--------	--	-----	------

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
55	191035	Which HTML Tag is used to enclose any number of Javascript statements in HTML document: 1. code Tag 2. script Tag 3. title Tag 4. body Tag A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
56	191036	Software products need perfective maintenance for which of the following reasons ? 1. To rectify bugs observed while the system is in use 2. When the customers need the product to run on new platforms 3. To support the new features that users want it to support 4. To overcome wear and tear caused by the repeated use of the software A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
57	191037	The algebraic function of the Exclusive-OR (XOR) operation is: (Where ' represents Complement Operation) 1. $F = A \cdot B$ 2. $F = A' B' + A B$ 3. $F = A' B + A B'$ 4. $F = A + B$ A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
58	191038	In ICAR-ERP, what does ERP stands for? 1. Entrepreneur Resource System 2. Enterprise Resource Planning 3. Enterprise Resilient Planning 4. Employee Response System A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
59	191039	The Python library used for drawing graphs, high-defined figures and charts is 1. TensorFlow 2. Pandas 3. Numpy 4. Matplotlib A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	191040	Which of the following is not a Big Data Analytics Tool: 1. Apache Hadoop 2. PHP 3. Mongo DB 4. Cassandra A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		

Objective Question

61	191041	The method that provides a simple, straightforward procedure for simplifying Boolean expressions is 1. Google Map 2. Karnaugh Map 3. Hash Map 4. Tree Map A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

62	191042	Following documents have an implicit structure or hierarchy: (A) HTML (B) XML (C) XHTML Choose the correct answer from the options given below: 1. (A), and (B) only 2. (A), and (C) only 3. (A), (B) and (C) 4. (B) and (C) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	---	-----	------

Objective Question

63	191043	Which header file is required in C++ to use OOP? 1. assert.h 2. stdlib.h 3. iostream.h 4. stdio.h A1 : 1	4.0	1.00
----	--------	---	-----	------

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

64	191044	Which is the correct syntax of inheritance? 1. class base_classname :access derived_classname{ /*define class body*/ }; 2. class derived_classname : access base_classname{ /*define class body*/ }; 3. class derived_classname : base_classname{ /*define class body*/ }; 4. class base_classname : derived_classname{ /*define class body*/ }; A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	--	-----	------

Objective Question

65	191045	An algorithm that runs in $O(1)$ time is the ____, $O(\log N)$ is ____, $O(N)$ is ____, and $O(N^2)$ is ____. 1. Best, Bad, Fair, Very Good 2. Bad, Fair, Very Good, Best 3. Best, Very Good, Fair, Bad 4. Bad, Very Good, Best , Fair A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	--------	--	-----	------

Objective Question

66	191046	There are several factors that affect the efficiency of lookup operations in a hash table. Which of the following is not one of those factors? 1. Number of elements stored in the hash table 2. Size of elements stored in the hash table 3. Number of buckets in the hash table 4. Quality of the hash function A1 : 1 A2 : 2	4.0	1.00
----	--------	---	-----	------

A3 : 3

A4 : 4

Objective Question

67 191047

4.0 1.00

Goal	Threat
A. Confidentiality	I. Tampering with Data
B. Integrity	II. Denial of Service
C. Availability	III. Exposure of Data

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

68 191048

4.0 1.00

Type of security measure that involves limiting the types of operations that a program can perform on a computer system is known as

1. Firewall
2. Intrusion Detection
3. Least Privilege
4. Data Masking

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

69 191049

4.0 1.00

Match **List-I** with **List-II**

List-I	List-II
(A).The bits of the codeword are numbered consecutively, starting with bit 1 at the left end, bit 2 to its immediate right, and so on.	(I). Binary convolutional codes
(B).In a convolutional code, an encoder processes a sequence of input bits and generates a sequence of output bits.	(II). Hamming codes
(C). The linear block codes, which are often systematic too and operate on m bit symbols.	(III). Low-Density Parity Check codes.
(D). The linear block codes, in which each output bit is formed from only a fraction of the input bits.	(IV).Reed-Solomon codes

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

70	191050	Which of the following is NOT TRUE about Ring Topology of Computer Networks?	4.0	1.00
1. The data flows in an anti-clockwise direction. 2. The data flows in an endless loop. 3. It has no terminated end. 4. It is unidirectional.				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

71	1003651	What is the high speed memory between the main memory and the CPU called?	4.0	1.00
1. Register Memory 2. Cache Memory 3. Storage Memory 4. Virtual Memory				

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

72	1003652	Consider the following statements: (A) Binary information in digital computers is stored in memory (B) Binary information in digital computers is stored in processor registers (C) Binary information in digital computers is stored in Multiplexers Choose the correct answer from the options given below: 1. A only 2. A and B only 3. B only 4. A and C only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

73	1003653	Given two tables R1(x,y) and R2 (y,z) with 50 and 30 number of tuples respectively. Find maximum number of tuples in the output of natural join between tables R1 and R2 i.e. R1*R2? (*- Natural Join): 1. 80 2. 20 3. 50 4. 1500 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

74	1003654		4.0	1.00
----	---------	--	-----	------

The model that uses realistic approach to the development of large-scale systems and software is called a

1. Spiral model
2. Increment model
3. Concurrent Development model
4. Linear Sequential Model

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75	1003655	If A and B are the inputs of a half adder, the sum is given by 1. XML 2. XTML 3. XHTML Basic 4. XHTML Intro A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

76	1003656	Look at the following Communication lines in a computer: (A) Data input and output lines (B) Address selection lines (C) Control lines that specify the direction of transfer Communication between a memory and its environment is achieved through: 1. (A) and (B) only 2. (A) and (C) only 3. (B) and (C) only 4. (A), (B) and (C) A1 : 1 A2 : 2 A3 : 3	4.0	1.00
----	---------	---	-----	------

		A4 : 4		
Objective Question				
77	1003657	DML requests must be processed by the optimizer component whose purpose is to 1. find a solution for the query 2. determine an efficient way of implementing the request 3. determine a process for simplifying a query 4. build procedures and provide them to the query A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
78	1003658	The Regular Expression operators are: (A) Concatenation operator (B) Repetition operator (C) Alternatives operator Select the correct order of operator precedence: 1. (A), (B), (C) 2. (B), (C), (A) 3. (B), (A), (C) 4. (A), (C), (B) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
79	1003659	Which one of the following facilitates transfer of bulk data from hard disk to main memory with the highest throughput? 1. DMA based I/O transfer 2. Interrupt driven I/O transfer 3. Polling based I/O transfer 4. Programmed I/O transfer A1 : 1 A2 : 2	4.0	1.00

A3 : 3

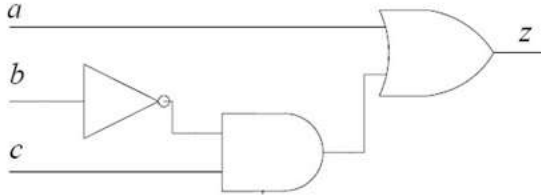
A4 : 4

Objective Question

80 1003660

4.0 1.00

Consider the following Boolean Function $z(a,b,c)$:



Which one of the following minterm lists represents the circuit given above:

1. $z = \sum(0, 1, 3, 7)$
2. $z = \sum(1, 4, 5, 6, 7)$
3. $z = \sum(2, 4, 5, 6, 7)$
4. $z = \sum(2, 3, 5)$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

81 1003661

4.0 1.00

A relational database contains two tables of Student and Performance as shown below:

Student	
Roll no.	Student name
1	Amit
2	Priya
3	Vinit
4	Rohan
5	Smita

Performance		
Roll no.	Subject code	Marks
1	A	86
1	B	95
1	C	90
2	A	89
2	C	92
3	C	80

The primary key of the Student table is Roll_ no. For the Performance table, the columns Roll_ no. and Subject_ code together form the primary key. Consider the SQL query given below:

```
SELECT S.Student name, sum(P.Marks)
```

```
FROM Student S, Performance P
```

```
WHERE P.Marks > 84
```

```
GROUP BY S.Student_name;
```

The number of rows returned by the above SQL query is

1. 3
2. 0
3. 4
4. 5

		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

82	1003662	Let $\oplus$ and $\odot$ denote the Exclusive OR and Exclusive NOR operations respectively. Which one of the following is NOT CORRECT? (' denotes the Complement Operator) 1. $(P \oplus Q)' = P \odot Q$ 2. $P' \oplus Q = P \odot Q$ 3. $P' \oplus Q = P \oplus Q$ 4. $(P \oplus P') \oplus Q = (P \odot P') \odot Q'$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

83	1003663	Which one of the following statements is FALSE? 1. Context-free grammar can be used to specify both lexical and syntax rules 2. Type checking is done before parsing 3. High-level language programs can be translated to different Intermediate Representations 4. Arguments to a function can be passed using the program stack A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

84	1003664		4.0	1.00
----	---------	--	-----	------

In an Entity-Relationship (ER) model, suppose R is a many-to-one relationship from entity set $E1$ to entity set $E2$. Assume that $E1$ and $E2$ participate totally in R and that the cardinality of $E1$ is greater than the cardinality of $E2$.

Which one of the following is true about R ?

1. Every entity in $E1$ is associated with exactly one entity in $E2$.
2. Some entity in $E1$ is associated with more than one entity in $E2$
3. Every entity in $E2$ is associated with exactly one entity in $E1$
4. Every entity in $E2$ is associated with at most one entity in $E1$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

85	1003665	Which of the following statements are true? The Database management system must (A) provide a Data Dictionary (B) monitor user requests and accepts any attempt to violate the security and integrity constraints defined by the DBA (C) enforce certain recovery and concurrency controls (D) be able to accept data definitions in object form and convert them to appropriate source form 1. (A) and (D) only 2. (A), (B) and (C) only. 3. (A) and (C) only 4. (B), (C) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

86	1003666		4.0	1.00
----	---------	--	-----	------

Which of the following statements is/are false ?

(A) : The clean-room strategy to software engineering is based on the incremental software process model.

(B) : The clean-room strategy to software engineering is one of the ways to overcome "unconscious" copying of copyrighted code.

Choose the correct answer from the options given below :

1. (A) only.
2. (B) only.
3. Both (A) and (B).
4. Neither (A) nor (B).

A1 : 1

A2 : 2

A3 : 3

A4 : 4

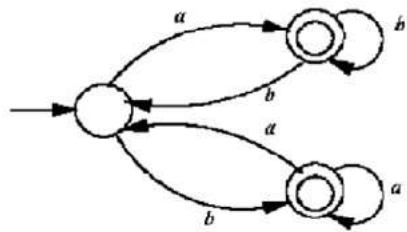
Objective Question

87	1003667	Consider the following processor design characteristics: (A). Register-to-register arithmetic operations only (B). Fixed-length instruction format (C). Hardwired control unit Which of the characteristics above are used in the design of a RISC processor? 1. (A) and (B) only 2. (B) and (C) only. 3. (A) and (C) only. 4. (A), (B) and (C) . A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

88	1003668		4.0	1.00
----	---------	--	-----	------

Which one of the following regular expressions correctly represents the language of the finite automaton given below?



1. $ab^*bab^* + ba^*aba^*$
2. $(ab^*b)^*ab^* + (ba^*a)^*ba^*$
3. $(ab^*b + ba^*a)^*(a^*+b^*)$
4. $(ba^*a + ab^*b)^*(ab^*+ba^*)$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

89	1003669	Read the following statements: (A). Testing is a process of executing a program with the intent of finding an error. (B). A good test case is one that has a high probability of finding an as-yet undiscovered error. (C). A successful test is one that uncovers an as-yet-undiscovered error. Choose the correct option from the following about the software testing objectives : 1. (A) and (B) only. 2. (A), (B) and (C). 3. (B) and (C) only. 4. (A) and (C) only.	4.0	1.00
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

90	1003670		4.0	1.00
----	---------	--	-----	------

The software engineer creates a representation of all data objects that are important for the system using

1. Data Flow Diagrams
2. Entity Relationship Diagrams
3. Control Flow Diagrams
4. Work Flow Diagrams

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91	1003671	Suppose a database system crashes again while recovering from a previous crash. Assume checkpointing is not done by the database either during the transactions or during recovery. Which of the following statements is/are correct? 1. The same undo and redo list will be used while recovering again 2. The system cannot recover any further 3. All the transactions that are already undone and redone will not be recovered again 4. The database will become inconsistent A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

92	1003672	Which one of the following kinds of derivation is used by LR parsers? 1. Leftmost 2. Leftmost in reverse 3. Rightmost 4. Rightmost in reverse A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

93	1003673		4.0	1.00
----	---------	--	-----	------

Which of the following is not a machine learning technique?

1. Levenberg-Marquardt estimation procedure of non-linear regression
2. Artificial neural networks
3. Support vector regression
4. Classification and regression trees

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

94	1003674	The Web site directory that contains all others is known as the 1. Node directory 2. Branch directory 3. Root directory 4. Leaf directory A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	---	-----	------

Objective Question

95	1003675	Let $R_i(z)$ and $W_i(z)$ denote read and write operations respectively on a data element z by a transaction T_i. Consider the schedule S with four transactions. (Here $i = 1, 2, 3, 4$) $S : R_4(x) R_2(x) R_3(x) R_1(y) W_1(y) W_2(x) W_3(y) R_4(y)$ Which one of the following serial schedules is conflict equivalent to S? 1. $T_1 \rightarrow T_3 \rightarrow T_4 \rightarrow T_2$ 2. $T_1 \rightarrow T_4 \rightarrow T_3 \rightarrow T_2$ 3. $T_4 \rightarrow T_1 \rightarrow T_3 \rightarrow T_2$ 4. $T_3 \rightarrow T_1 \rightarrow T_4 \rightarrow T_2$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

96	1003676	Which of the following are true? (A). A programming language which does not permit global variables of any kind and has no nesting of procedures/functions, but permits recursion can be implemented with static storage allocation (B). Multi-level access link (or display) arrangement is needed to arrange activation records only if the programming language being implemented has nesting of procedures/functions (C). Recursion in programming languages cannot be implemented with dynamic storage allocation (D). Nesting of procedures/functions and recursion require a dynamic heap allocation scheme and cannot be implemented with a stack-based allocation scheme for activation records. (E). Programming languages which permit a function to return a function as its result cannot be implemented with a stack-based storage allocation scheme for activation records. Choose the correct answer from the options given below: 1. (B) and (E) only. 2. (A), (C) and (D) only. 3. (A), (B) and (E) only. 4. (B), (C) and (E) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
----	---------	--	-----	------

Objective Question

97	1003677		4.0	1.00
----	---------	--	-----	------

Consider the program given below, in a block-structured pseudo-language with lexical scoping and nesting of procedures permitted.

Program main;

Var ...

Procedure A1;

Var ...

Call A2;

End A1

Procedure A2;

Var ...

Procedure A21;

Var ...

Call A1;

End A21

Call A21;

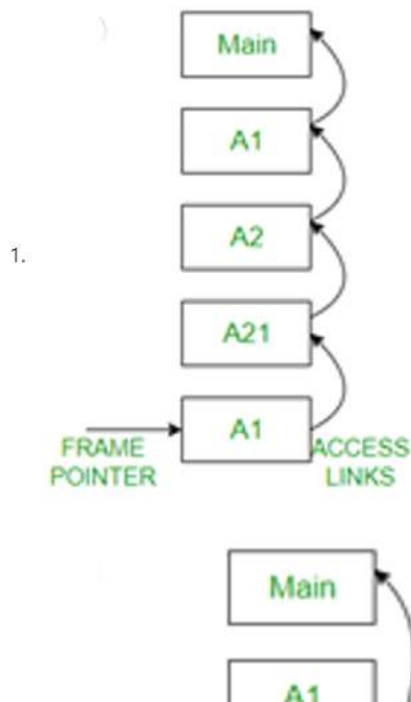
End A2

Call A1;

End main.

Consider the calling chain : Main->A1->A2->A21->A1

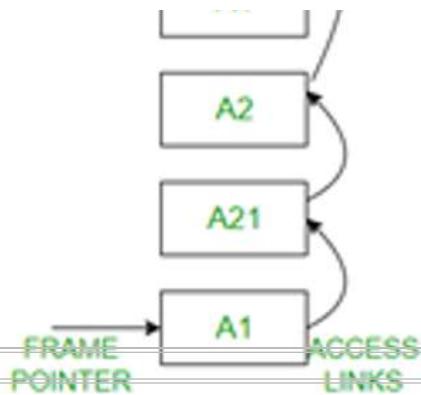
The correct set of activation records along with their access links is given by :



A1 : 1
2.
A2 : 2

A3 : 3

A4 : 4

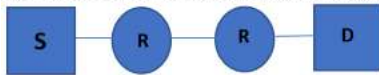


Objective Question

98 1003678

4.0 1.00

Assume that source S and destination D are connected through two intermediate routers labeled R. Determine how many times each packet has to visit the network layer and the data link layer during a transmission from S to D.

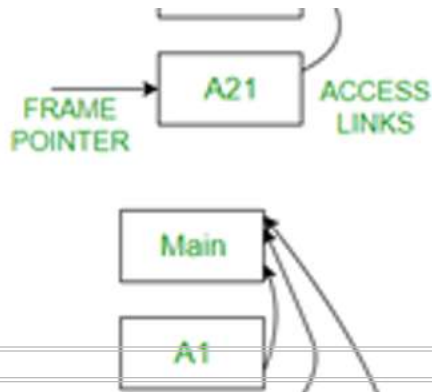


1. Network layer – 4 times and Data link layer – 4 times
2. Network layer – 4 times and Data link layer – 3 times
3. Network layer – 4 times and Data link layer – 6 times
4. Network layer – 2 times and Data link layer – 6 times

A1 : 1
A2 : 2

A3 : 3

A4 : 4



Objective Question

99 1003679

4.0 1.00

Two types of transmission technology that are in widespread use are

1. Broadcasts links and Point-to-Point links
2. LAN and Power-line networks
3. MAN and Communication Subnet
4. LAN and MAN

A1 : 1
A2 : 2

A3 : 3

A4 : 4

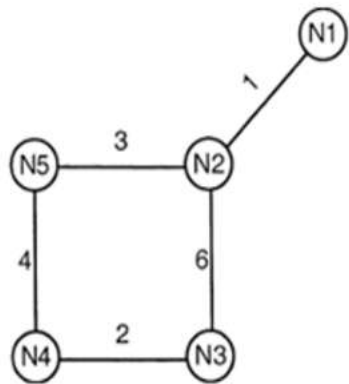


Objective Question

100 1003680

4.0 1.00

Consider a network with five nodes, N1 to N5, as shown below. The network uses a Distance Vector Routing protocol. Once the routes have stabilized, the distance vectors at different nodes are N1: (0, 1, 7, 8, 4) N2: (1, 0, 6, 7, 3) N3: (7, 6, 0, 2, 6) N4: (8, 7, 2, 0, 4) N5: (4, 3, 6, 4, 0). Each distance vector is the distance of the best-known path at the instance to nodes, N1 to N5, where the distance to itself is 0. Also, all links are symmetric and the cost is identical in both directions. In each round, all nodes exchange their distance vectors with their respective neighbours. Then all nodes update their distance vectors. In between two rounds, any change in cost of a link will cause the two incident nodes to change only that entry in their distance vectors. 52. The cost of link N2-N3 reduces to 2(in both directions). After the next round of updates, what will be the new distance vector at node, N3.



- 1. (3,2,0,2,5)
- 2. (3,2,0,2,6)
- 3. (7,2,0,2,5)
- 4. (7,2,0,2,6)

- A1 : 1
- A2 : 2
- A3 : 3
- A4 : 4

Objective Question			
101	1003681		
		4.0	1.00
file:///C:/Users/Administrator/Desktop/Phd ZIP/169_B2_Live_ComputerApplication/169_B2_Live_ComputerApplication_1-120.html			
		41/52	

Which of the following code snippet is used to convert decimal to binary numbers?

```
1. public void convertBinary(int num) {
    int bin[] = new int[50];

    int index = 0;

    while(num > 0)

    {

        bin[index++] = num%2;

        num = num/2;

    }

    for (int i = index-1; i >= 0; i--)

    {

        System.out.print(bin[i]);

    }

}

2. public void convertBinary(int num) {                int bin[] = new int[50];
    int index = 0;

    while(num > 0)

    {

        bin[++index] = num/2;

        num = num%2;

    }

    for (int i = index-1; i >= 0; i--)

    {

        System.out.print(bin[i]);

    }

}

3. public void convertBinary(int num) {                int bin[] = new int[50];
    int index = 0;

    while(num > 0)

    {

        bin[index++] = num/2;

        num = num%2;

    }

    for (int i = index-1; i >= 0; i--)

    {

        System.out.print(bin[i]);

    }

}

4. public void convertBinary(int num) {                int bin[] = new int[50];
```

```

int index = 0;
A1 : 1 while(num > 0)
A2 : 2 {
        bin[index++] = num%2;
A3 : 3 num = num/2;
A4 : 4 }
        for (int i = index-1; i >= 0; i--)

```

Objective Question

102 1003682

4.0 1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A) :Generalised Binsort has come to be known as Radix Sort.

Reason (R) : The bin computations are based on the radix or the base of the key values. This sorting algorithm can be extended to any number of keys in any key range. Records are simply assigned to bins based on the keys' digit values working from the rightmost digit to the leftmost.

In light of the above statements, choose the *correct* answer from the options given below.

- Both (A) and (R) are true and (R) is the correct explanation of (A).
- Both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (A) is true but (R) is false.
- (A) is false but (R) is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

103 1003683

4.0 1.00

The table below shows five operating system functions in List- I and five descriptions in List-II. Match each operating system function to its corresponding description.

List-I	List-II
(A). Interrupt	(I). Many processes appear to run simultaneously
(B). Utility	(II). Data are temporarily held in a buffer waiting for an output device to access it
(C). Memory Management	(III). A signal that causes the operating system to take a specified action
(D). Spooling	(IV). A program that performs a specific task required for the operation of a computer system
(E). Multitasking	(V). A process of assigning blocks of memory to programs running in a computer

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

- (A) - (III), (B) - (IV), (C) - (V), (D) - (II), (E)-(I)
- (A) - (I), (B) -(V), (C) - (IV), (D) - (III), (E)-(II)
- (A) - (II), (B) -(I), (C)- (III), (D) - (V), (E)-(IV)
- (A) - (I), (B) - (II), (C) - (III), (D) - (IV), (E) - (V)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

104 1003684

4.0 1.00

Consider the following program:

```
#include
```

```
main()
```

```
{
```

```
    int i, inp;
```

```
    float x, term=1, sum=0;
```

```
    scanf("%d %f", &inp, &x);
```

```
    for(i=1; i<=inp; i++)
```

```
    {
```

```
        term = term * x/i;
```

```
        sum = sum + term ;
```

```
    }
```

```
    printf("Result = %fn", sum);
```

```
}
```

The program computes the sum of which of the following series?

1. $x + x^2/2 + x^3/3 + x^4/4 + \dots$

2. $x + x^2/2! + x^3/3! + x^4/4! + \dots$

3. $1 + x^2/2 + x^3/3 + x^4/4 + \dots$

4. $1 + x^2/2! + x^3/3! + x^4/4! + \dots$

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

105 1003685

4.0 1.00

The inorder and preorder traversal of a binary tree are d b e a f c g and a b d e c f g, respectively. The postorder traversal of the binary tree is:

1. d e b f g c a
2. e d b g f c a
3. e d b f g c a
4. d e f g b c a

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

106	1003686	The height of a binary tree is the maximum number of edges in any root to leaf path. The maximum number of nodes in a binary tree of height h is: 1. $2^h - 1$ 2. $2^{(h-1)} - 1$ 3. $2^{(h+1)} - 1$ 4. $2^{(h+1)}$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	---	-----	------

Objective Question

107	1003687	If we use mergesort to sort an array with n elements, what is the worst case time required for the sort? 1. $O(1)$ 2. $O(\log n)$ 3. $O(n)$ 4. $O(n \log n)$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
-----	---------	--	-----	------

Objective Question

108	1003688		4.0	1.00
-----	---------	--	-----	------

Match **List-I** with **List-II** with respect to Security.

List-I	List-II
(A).Confidentiality	(I). Tampering with Data
(B).Integrity	(II).Denial of Service
(C). Availability	(III). Exposure of Data

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

109 1003689

4.0 1.00

Which of the following statements are TRUE for Switching?

- (A). Switching in the Internet is done by using the datagram approach to packet switching at the network layer.
- (B). Switching at the physical layer in the traditional telephone network uses the circuit-switching approach.
- (C). In a packet-switched network, there is resource reservation; resources are allocated on demand.
- (D). In virtual-circuit switching, all packets belonging to the same source and destination travel the same path; but the packets may arrive at the destination with different delays if resource allocation is not on demand.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1003690

4.0 1.00

With _____ a page is brought into main memory only when the reference is made to a location.

1. Demand Paging
2. Main Paging
3. Prepaging
4. Postpaging

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111	1003691	_____ is the time required to move the disk arm to the required track.	4.0	1.00
		1. Seek Time 2. Rotational Delay 3. Latency Time 4. Access Time		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

112	1003692	Which of the following are the states of a five state process model? (A). Running (B). Ready (C). New (D).Exit (E). Destroy Choose the correct answer from the options given below: 1. (A), (B), (C) and (E) only. 2. (A), (B), (D) and (E) only. 3. (A), (B), (C) and (D) only. 4. (A), (B), (C), (D) and (E).	4.0	1.00
		A1 : 1		
		A2 : 2		

A3 : 3

A4 : 4

Objective Question

113 1003693

4.0 1.00

Suppose we have two classes one of which extends the other:

```
Class Base {...};
```

```
Class Derived: public Base {...};
```

Now suppose we execute the following program:

```
line 1  int main() {
line 2  Base*b;
line 3  Derived*d = new Derived;
line 4  b = d;
line 5  delete d;
line 6  return 0;
line 7  }
```

What is the *Static type* of variable b after line 4 has been executed and before line 5 is executed?

1. Base*
2. Base &
3. Derived *
4. Derived &

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114 1003694

4.0 1.00

Why does the data communication industry use the layered OSI reference model?

(A). It divides the network communication process into smaller and simpler components, thus aiding component development, design, and troubleshooting.

(B). It enables equipment from different vendors to use the same electronic components, thus saving research and development funds.

(C). It supports the evolution of multiple competing standard and thus provides business opportunities for equipment manufacturers.

(D). It encourages industry standardization by defining what functions occur at each layer of the model.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

115	1003695	Which of the following is NOT a type of routing protocol?	4.0	1.00
		1. RIP 2. OSPF 3. BGP 4. SMTP		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

116	1003696	The average marks of boys in a class is 52 and that of girls is 42. The average marks of boys and girls combined is 50. The percentage of boys in the class is	4.0	1.00
		1. 80 2. 60 3. 40 4. 20		
		A1 : 1		

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

117	1003697	Let X have a Bernoulli distribution with mean 0.4. What is the variance of $(2X-3)$?	4.0	1.00
		1. 0.24 2. 0.48 3. 0.72 4. 0.96		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

118	1003698	The correlation coefficient between the marks obtained in Mathematics and Computer Science in first year examination for a given set of 70 students is 0.65. After re-evaluation, the marks in Mathematics of all the 70 students increased by 4 marks. The coefficient of correlation between the original marks in Computer Science and the revised marks in Mathematics will be	4.0	1.00
		1. 0.60 2. 0.65 3. 0.70 4. Almost 1		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

119	1003699		4.0	1.00
-----	---------	--	-----	------

Consider the following factors in respect of Sample Survey Vs. Census:

(A). Reduced Cost

(B). Greater speed

(C). Greater scope

(D). Greater accuracy

The principal advantages of sample survey over census are

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

120 1003700

If degrees of freedom for the treatment sum of squares of a Latin Square Design with k treatments is 2, then the error degrees of freedom is equal to

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00