

UGC-NET PAPER-1 (General Paper) SHIFT-1 21-Aug-2024

Comprehension: –

The following table shows the percentage (%) distribution of students in MTech (Computer Science) class, who got employment in the areas of Hardware, Software Quality Assurance (SQA), Software Development and others during the five years from 2019 to 2023, along with the average starting salaries of students per month (in Rs) in these areas during the same years. The total numbers of students who passed out in the years 2019-2023 are 800, 600, 1100, 1200 and 1000 respectively. Based on the data in the table, answer the questions that follow.

Employment- Area wise details of students

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Employment Area	2019		2020		2021		2022		2023	
	I%	II%	I%	II%	I%	II%	I%	II%	I%	II%
Hardware	22	54500	17	63800	23	75500	19	89200	32	98100
SQA	36	51700	48	63900	43	76300	37	89600	32	102200
Software Development	19	52900	23	64400	21	70500	16	77600	20	86400
Other	23	42600	12	50900	13	60200	28	66400	16	75400

When I represent percentage distribution of students who got employment and II represents the average starting salary of students per month (in Rs.)

Que. 1: What is the average monthly salary offered to an MTech (Computer Science) student in 2020?

- A. Rs. 60750
- B. Rs. 63300
- C. Rs. 63333
- D. Rs. 64030

Que. 2: In all the five years, the number of students getting employment in Hardware is less than the number of students getting employment in SQA.

- A. 826
- B. 650
- C. 734
- D. 548

Que. 3: In 2021, students getting employment in Hardware earned Rs. _____ lakhs more than those getting employment in Software Development (per annum).

- A. 430
- B. 337.92
- C. 284.12
- D. 324.3

Que. 4: The average monthly salary offered to an MTech (Computer Science) student in 2023 is approximately % more than that in 2022.).

- A. 12.17
- B. 17.14
- C. 25
- D. 5.43

Que. 5: What is the percentage increase in the average starting salary (per month) of employment in Hardware in the year 2023 with reference to the year 2019?

- A. 60%
- B. 32%
- C. 96%
- D. 80%

Que. 6: Identify the sequence of words A-E that correctly fills the blanks in the following paragraph. The _____ is the brain of the computer and the _____ processor made by Intel is an example of this. The speed of the processor is measured in _____. _____ is a volatile memory whereas is used in most computers to hold a small special piece of software known as the boot up program.

- A) ROM
- B) CPU
- C) RAM
- D) Pentium
- E) Hertz

Choose the most appropriate answer from the options given below.

- A. B, D, E, C, A
- B. D, B, C, E, A
- C. C, D, E, A, B
- D. B, E, D, A, C

Que. 7: Three successive discounts of 30% on the marked piece of an item are together equivalent to a single discount of.

- A. 90%
- B. 27%
- C. 65.7%
- D. 78.2%

Que. 8: In a certain coding language, if the word STORK is coded as VQRON then the word TIRED will be coded is.

- A. V E T C F
- B. W F U B G

C. W E T C G

D. V F U B F

Que. 9: Match the List-I with List-II

LIST I

LIST II

Swayam Prabha Channel No.

Theme

A. Channel 03 (PRABODH)

I. Education and Home Science

B. Channel 04 (SAARASWAT)

II. Information, Communication and Management Studies

C. Channel 05 (PRABANDHAN)

III. Law and Legal Studies

D. Channel 06 (VIDHIK)

IV. Social and Behavioral Sciences

Choose the correct answer from the options given below.

A. A-II, B-IV, C-III, D-I

B. A-III, B-I, C-IV, D-II

C. A-IV, B-I, C-II, D-III

D. A-I, B-III, C-II, D-IV

Que. 10: Which of the following statements best describe a blog?

A. A website that allows multiple users to collaborate and create information.

B. A chronological list of posts on a website typically written by a single author about a subject

C. A series of audio or video episodes that subscribers download or stream to their devices

D. A standardized format that allows users to subscribe to view content updates from a creator.

Que. 11: To understand the Global Climate Change, GCM model are widely used. GCM stands for.

A) Global Circulation Model

B) General Circulation Model

C) Global Climate Model

D) General Climate Model

Choose the most appropriate answer from the options given below.

A. Only A and B

B. Only B and C

C. Only C and D

D. Only A and D

Que. 12: Which of the following is correct in the context of syllogism?

A) With two negative premise, affirmative conclusion can be drawn

B) Predicate of the conclusion is the minor term.

C) Middle term must be distributed at least once in the premises

D) With two universal premises, particular conclusion can be drawn

E) The term distributed in the conclusion must be distributed in the premises.

Choose the most appropriate answer from the options given below.

- A. B and C Only
- B. A and C Only
- C. D and E Only
- D. C and E Only

Que. 13: Dissolved Oxygen (DO), a water quality parameter, is essential in which of the following water bodies/sources?

- A) River Water
- B) Lake Water
- C) Tap Water
- D) Underground Water
- E) Pond Water

Choose the most appropriate answer from the options given below.

- A. A, B and E Only
- B. C and D Only
- C. B, D and E Only
- D. A, C, D and E Only

Que. 14: Molecules are in random motion. Qutub Minar is composed of Molecules. Therefore, Qutub Minar is in constant random motion. Identify the fallacy committed in the above statement.

- A. Equivocation
- B. Slippery slope
- C. Hasty generalization
- D. Fallacy of composition

Que. 15: Which of the following electronic technologies is the key technology for making the first-generation electronic computer?

- A. Transistor based
- B. Integrated Circuit based
- C. Vacuum Tube based
- D. Dual Core CPU Based

Que. 16: In a breeder reactor

- A. More fissile materials are produced than it is consumed
- B. Less fissile materials are produced than it is consumed
- C. Neutrons are slowed down by moderator
- D. U-238 a fissile material is produced from Pu-239 a fertile material.

Que. 17: An important feature of the third five-year plan was.

- A. Abolition of Education Commission

- B. Reduction in the number of colleges
- C. Setting up examination research units in some universities
- D. More emphasis on open book examination

Que. 18: Working 9 hours a day, 12 persons complete a work in 25 days. Working 6 hours a day, 15 persons can do the same work in.

- A. 28 days
- B. 29 days
- C. 30 days
- D. 32 days

Que. 19: When a water body becomes extremely low in nutrient content, then it is called as.

- A. Dystrophic
- B. Oligotrophic
- C. Mesotrophic
- D. Eutrophic

Que. 20: If $(L)_m$ represents a number L in base- M number system, then which of the following equalities are true?

- A) $(127.125)_{10} = (1111111.001)_2$
- B) $(127.125)_{10} = (1333.02)_4$
- C) $(127.125)_{10} = (177.1)_8$
- D) $(127.125)_{10} = (7F.2)_{16}$

Choose the most appropriate answer from the options given below.

- A. A only
- B. A and B only
- C. A, B and C only
- D. A, B, C and D

Que. 21: Which of the following are essential elements of mass communication?

- A) Electronic observation
- B) Technological medium
- C) Large audience
- D) Professional communicators
- E) Organizational structure

Choose the most appropriate answer from the options given below.

- A. Only A, B, E
- B. Only A, C, D
- C. Only A, C, D, E
- D. Only B, C, D, E

Que. 22: If the statement "Some birds are not mammals" is given as true, which of the following statements can be immediately inferred to be false?

- A. Some mammals are not birds
- B. Some birds are mammals
- C. No birds are mammals
- D. All birds are mammals

Que. 23: Which of the following universities were multi-disciplinary in ancient India?

- A) Banaras Hindu University
- B) Takshashila
- C) Nalanda
- D) Vallabhi
- E) Vikramshila

Choose the most appropriate answer from the options given below.

- A. Only A, B, C
- B. Only A, C, E
- C. Only A, D, E
- D. Only B, C, D, E

Que. 24: A person travels from X to Y at a speed of 50 km/hr and returns from Y to X by increasing his speed by 50%. His average speed during the journey is.

- A. 62.5 km/hr
- B. 60 km/hr
- C. 62 km/hr
- D. 64 km/hr

Que. 25: Identify the probability sampling techniques?

- A) Simple random sampling
- B) Snowball sampling
- C) Stratified random sampling
- D) Convenience sampling

Choose the most appropriate answer from the options given below.

- A. Only A and B
- B. Only B and C
- C. Only A and C
- D. Only B and D

Que. 26: Match the List-I with List-II

LIST I

LIST II

PATTERNS OF COMMUNICATION	SOCIAL UNIT
A. Physical Situation	I. Participants
B. Persons involved in interaction	II. Key
C. Manner of communication enacted	III. Instrumentality
D. Channels of communication	IV. Scene or Setting

Choose the correct answer from the options given below.

- A. A-I, B-II, C-III, D-IV
- B. A-II, B-III, C-IV, D-I
- C. A-III, B-IV, C-I, D-II
- D. A-IV, B-I, C-II, D-III

Que. 27: A history teacher wants to create an interactive timeline showcasing the evolution of different art movements over centuries? Which tool would best support the creation of this multimedia presentation?

- A. Prezi
- B. Adobe Illustrator
- C. Flipgrid
- D. Google Forms

Que. 28: Match the List-I with List-II

LIST I (MALWARE TYPES)	LIST II (CHARACTERISTICS)
A. Trojan Horse	I. Propagates copies of itself through a network
B. Worm	II. Triggers action when certain condition occurs
C. Logic Bomb	III. Hooks standard OS calls to hide the existence of malware
D. Rootkit	IV. Contains unexpected covert effort

Choose the correct answer from the options given below.

- A. A-I, B-IV, C-III, D-II
- B. A-IV, B-II, C-I, D-III
- C. A-II, B-I, C-III, D-IV
- D. A-IV, B-I, C-II, D-III

Que. 29: The general context of communication is known as communication.

- A. Situation
- B. Position
- C. Praxis
- D. Convention

Que. 30: Which of the following research approaches suggest that theory is an outcome of research?

- A. Deductive approach

- B. Inductive approach
- C. Quantitative approach
- D. Cross-sectional approach

Que. 31: Dr. Baba Saheb Ambedkar was associated with.

- A) Presidency College, Kolkata
- B) Khalsa College, Mumbai
- C) Siddharth College, Mumbai
- D) Milind College, Aurangabad
- E) National College, Bengaluru

Choose the most appropriate answer from the options given below.

- A. Only A, B, C
- B. Only B, C, D
- C. Only C, D, E
- D. Only A, D, E

Que. 32: Description of actual words, written or spoken, used to tell a story and images or pictures come under the category of.

- A. Discourse
- B. Event
- C. Law
- D. Performance

Que. 33: When the sample has been randomly selected, which among the following may be expected in cross-sectional research designs?

- A) Strong external validity
- B) Weak external validity
- C) Weak internal validity
- D) Strong internal validity

Choose the most appropriate answer from the options given below.

- A. Only A and C
- B. Only A and D
- C. Only B and C
- D. Only B and D

Que. 34: The convention of Biological Diversity (CBD) was first opened for signature during.

- A. Conference on human environment
- B. Earth Summit
- C. Montreal Protocol
- D. COP1

Que. 35: If you want to understand the theoretical reasons that led researchers to conduct a study that appeared as a research article in a journal, you would read which of the following sections of the research article?

- A. Discussion
- B. Abstract
- C. Introduction
- D. Results

Que. 36: The National Education Policy, 2020 recommended the integration of humanities at the undergraduate level with subjects of.

- A) Science
- B) Technology
- C) Engineering
- D) Mathematics
- E) Propaganda techniques

Choose the most appropriate answer from the options given below.

- A. Only A, B, C, D
- B. Only B, C, E
- C. Only A, C, D, E
- D. Only A, B, D, E

Que. 37: In the letter series, some of the letters are missing. Complete the given letter series by choosing the correct alternatives from the options given below.

b _ b _ bb bbb _ bb _ b

- A. b b b b b a
- B. b b a a a b
- C. a b a b a b
- D. a a b a a b

Que. 38: The students t-test would be useful for?

- A) Comparing two groups to see whether their means differ.
- B) Comparing multiple groups (more than two) to see whether their means differ
- C) Testing the significance of correlation coefficient
- D) Testing the significance of regression coefficient.

Choose the most appropriate answer from the options given below.

- A. Only A, B and C
- B. Only B and D
- C. Only A, C and D
- D. Only A, B, C and D

Que. 39: A collection of the student's work in an area, showing growth, self-reflection, and achievements is known as.

- A. Modelling
- B. Portfolio
- C. Mastery goal
- D. Problem Solving

Que. 40: Which of the following in communication are the rhetorical structures?

- A) Paralanguage
- B) Clusters
- C) Form
- D) Genre
- E) Narrative

Choose the most appropriate answer from the options given below.

- A. Only A, B, C, D
- B. Only B, C, D, E
- C. Only A, C, E
- D. Only A, D, E

Que. 41: The National Education Policy, 2020 aims to create.

- A. Fragmented Universities
- B. Online universities
- C. Knowledge hubs
- D. Corporate clusters of education

Que. 42: The number of digits an individual can report back without error in a single presentation represents.

- A. Chunking
- B. Memory Span
- C. Phonological Loop
- D. Time Zone

Que. 43: Match the List-I with List-II.

LIST I

LIST II

(TERM)

(Meaning)

- A Decision making I The tendency to hold on a belief in the face of contradictory evidence
- B Confirmation bias II The tendency to have more confidence in Judgement and decision than we should base on probability

- C Belief perseverance III The tendency to search for and use information that supports our ideas rather than refuses them
- D Overconfidence Bias IV Evaluating alternatives and making choices among them.

Choose the correct answer from the options given below.

- A. A-III, B-IV, C-II, D-I
B. A-II, B-III, C-IV, D-I
C. A-IV, B-III, C-I, D-II
D. A-I, B-II, C-IV, D-III

Que. 44: According to classical Indian school of logic (Nyaya) which fallacy is committed in the following argument Anything that is thinkable is nameable because it is thinkable.

- A. Asadharana
B. Saadharana
C. Asrayasiddha
D. Svarupasiddha

Que. 45: Which of the following statements are logically equivalent?

- A) Some non-birds are mammals
B) Some birds are not mammals
C) Some non-mammals are non-birds
D) Some non-mammals are not non-birds

Choose the most appropriate answer from the options given below.

- A. A, B and C Only
B. A and C Only
C. C and D Only
D. B and D Only

Comprehension:

A.K. Ramanujan was one of those thinkers, like Freud (whom he greatly, though not uncritically, admired), who so transform our way of looking at a subject that we are in danger of undervaluing their contribution, since we have come to take for granted precisely what they taught us, as we view the subject through their eyes. At a time when the American Indo-logical establishment regarded native Indian scholars merely as sources of information about language and texts, like the raw fiber that were taken from India to be processed in British mills, but seldom as scholars who might have their own ideas about how to process those texts, Raman taught them all how to weave a theory, a folktale, a poem, a book, Raman taught them all how to weave a theory, a folktale, a poem, a book. Long before it was politically respectable, let alone politically correct, to study the works of women or of illiterate peasants, Raman valued their poetry, their stories and their counter-systems. AT a time when Indian literature meant Sanskrit, and Sanskrit meant Greek and Latin, Raman arrived in Chicago to join Edward C. Dimock and the other founding fathers in proclaiming to the world the relevance of Tamil and Bengali a

nd the other mother tongues. Without so much as raising his gentle voice, he blazed a great path through the centre of Ideological studies. He gave us so many new paradigms that no Indologist can now think about India without thinking through his thoughts. <https://www.pyqonline.com>

Que. 46: Who were the Founding Fathers that Ramanujan joined in Chicago?

- A. British Mill Owners
- B. American Indo-logical establishment leaders
- C. Edward C. Dimock and others
- D. Greek and Latin scholars

Que. 47: What did Ramanujan teach in America?

- A. Process raw fibers in British mills
- B. Weave theories, folktales, poems and books
- C. Only Sanskrit Literature
- D. Only English Literature

Que. 48: The language that Ramanujan tried to bring to limelight in Indological studies is.

- A. Greek and Latin
- B. Only Sanskrit
- C. Tamil, Bengali and other mother tongues
- D. French and German

Que. 49: Who is A.K Ramanujan compared to in the text?

- A. Chomsky
- B. Sigmund Freud
- C. Brunvand
- D. British Mill Owner

Que. 50: Ramanujan emphasized on.

- A. The criticism on the British mills
- B. Creating controversies in American Indological Studies
- C. A path through Idological Studies
- D. The study of Western languages only

Tentative Answers (Please verify before consider)

Que.	Ans.	Que.	Ans.	Que.	Ans.	Que.	Ans.	Que.	Ans.
1		11		21		31		41	
2		12		22		32		42	
3		13		23		33		43	
4		14		24		34		44	
5		15		25		35		45	
6	A	16		26		36		46	
7	C	17		27		37		47	
8	B	18		28		38		48	
9	C	19		29		39		49	
10		20		30		40		50	