

Previous Year's Paper

SET - IV

UGC NET Paper 1

Held in June 2023

General Instructions

- ⇒ This paper consists of 50 questions, each of which carries 2 marks.
- ⇒ Attempt all questions.

Direction (Q1-5): The following table show the number of votes polled along with the percentage (%) of valid votes and ratio of valid of male and females among them during an election in a college for the last five year from 2018-2022. Some values are missing in the table (indicated by '_____') that you are expected to calculate if required. Based on the data in the table, answer the questions the follows.

Year-wise Details of Voters Polled in an Election

Year	Number of votes polled	Percentage of valid votes polled (%)	Ratio of valid votes of male and females
2018	-	-	5:3
2019	1000	-	5:4
2020	2000	38%	-
2021	-	60%	7:5
2022	5000	40%	-

- In the year 2020, if the number of valid votes of females was 300 then what was the ratio of valid votes of males and females in the same year?
(a) 15:19 (b) 13:11
(c) 23:15 (d) 13:5
- In 2021, if the difference between the number of valid votes polled by males and females was 300, then the number of votes polled in 2021 was
(a) 3690 (b) 3000
(c) 3120 (d) 3440
- In the average number of valid votes polled in 2019 and 2022 was 1270 then the number of valid votes polled by females in 2019 was
(a) 270 (b) 300
(c) 210 (d) 240
- In the number of votes increased by 600% from 2019 to 2023 and 76% of the votes were valid in 2023, then the number of valid votes polled in 2023 was
(a) 5320 (b) 5040
(c) 5410 (d) 4560
- In 2018, if the ratio of number of votes to number of valid votes was 5:4, then the number of valid by females in 2018 is _____% less than the number of votes polled in the same year.
(a) 60 (b) 30
(c) 35 (d) 70
- For which of the following p-values of a text statistic a null hypothesis is likely to be accepted
A. 0.32 or 2% B. 32%
C. 2% D. 0.42
Choose the correct answer from the options given below:
(a) A and B only (b) B and C only
(c) B and D only (d) A and C only
- Which of the following institutions was established before Indian independence?
(a) ICSSR (b) AICTE
(c) ICHR (d) ICPR
- According to UGC regulations 2018 on promotion of academic integrity, the Institutional Academic Integrity Panel will consist of
(a) Two members (b) Three members
(c) Four members (d) Five members

9. Which of the following are the secondary laws of learning?
- Law of multiple response
 - Law of Associative shifting
 - Law of effect
 - Law of Analogy
 - Law of Exercise

Choose the most appropriate answer from the options given below:

- (a) B, C and E only (b) A, B and D only
 (c) A, B and E only (d) C, D and E only

10. Match List I with List II

Computer term	Definition
A. Router	I. The rules that govern the division of a file into packets and subsequent reassembly of the file from those packets
B. Firewall	II. An organization assigned responsibility for reducing problems and incidents related to computer security.
C. CERT-In	III. A device that provides perimeter security by filtering packets.
D. Transmission Control Protocol	IV. A device that use the Internet Protocol (IP) to send packets across network.

Choose the correct answer from the options given below:

- (a) A-(IV), B-(II), C-(III), D-(I)
 (b) A-(IV), B-(III), C-(II), D-(I)
 (c) A-(I), B-(III), C-(II), D-(IV)
 (d) A-(II), B-(III), C-(IV), D-(I)

11. You and your friend decided to go to Goa after you finish your finals, however your demanding parents set a couple of conditions to join your friends (see MS-EXCEL spreadsheet below)

	A	B	C	D
1	Category of condition	Minimal results needed	Actual result	Allowed (Yes/No)?
2	Hours spend on homework weekly	2	3	
3	Midterm score	70	68	
4	Final exam score	75	77	

Imagine your parents ask you to either meet the final exam score condition or both if the two remaining (homework and midterm) conditions. Which of the following formulas A-C can be used

in the cell D2 to answer the question: will you be able to join your friends with the result given?

- IF (C4>=B4) "Yes", (IF AND (C2>=B2, C3>=B3), "Yes", "No"))
- IF (AND (C2>=B2, C3>=B3), "Yes", IF (C4>=B4, ":Yes", "No"))
- IF (OR (AND (C2>=B2, C3>=B3), C4>=B4), "Yes", "No")

Choose the correct answer from the options given below:

- (a) A and B only (b) A and C only
 (c) B and C only (d) A, B and C only

12. How many kilograms of sugar costing Rs. 50 per kg should be mixed with 30 kg of sugar costing Rs.45 per kg so that the mixture is worth Rs. 48 per kg?

- (a) 50 kg (b) 48 kg
 (c) 45 kg (d) 42 kg

13. Given below are two Statements: one is labelled as Assertion A and the other is Labelled as Reason R

Assertion (A): The argument that sound is eternal because it is produced, is fallacious.

Reason (R): The argument "sound is eternal because it is produced," the middle term is contradicted by some other pramana and not by inference.

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

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A)
 (b) Both (A) and (R) are true and (R) is NOT the correct explanation of (A)
 (c) (A) is true but (R) is false
 (d) (A) is false but (R) is true

14. Given below are two statements:

Statement I: According to NEP, 2020, value-based education shall include universal values and scientific temper.

Statement II: Value based education did not include life skills and constitutional values as per the NEP document.

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

- (a) Both Statement I and statement II are true
 (b) Both Statement I and statement II are false
 (c) Statement I is true but statement II is false
 (d) Statement I is false but statement II is true

15. A and B can complete a work in 10 days; B and C in 12 days; C and A in 15 days. A alone can complete the work in
 (a) 30 days (b) 24 days
 (c) 36 days (d) 32 days
16. Given below are two statements.
Statement I: Stratospheric ozone is known as 'good ozone'.
Statement II: Ozone at the surface level is a serious health hazard and known as pollutant.
 In the light of the above statements, choose the most appropriate answer from the options given below:
 (a) Both Statement I and Statement II are correct
 (b) Both Statement I and Statement II are incorrect
 (c) Statement I is correct but Statement II is incorrect
 (d) Statement I is incorrect but Statement II is correct
17. Which of the following were the recommendation of the Radhakrishnan Commission regarding medium of instruction in higher education?
 A. The medium of higher education should be in regional language.
 B. Immediate steps should be taken to prepare scientific and technical terminologies in federal languages.
 C. All the federal languages must be written in Devanagari script
 D. International and scientific terminological words should be avoided.
 E. English should be banished from the higher education field in India immediately.
 Choose the correct answer from the options given below:
 (a) A, B and C only
 (b) B, C and D only
 (c) C, D and E only
 (d) A, D and E only
18. For a negatively skewed distribution, the median would be equal to which of the following measures?
 A. Mean
 B. Mode
 C. Second quartile
 D. Fifth quartile
 E. 50th percentile
- Choose the most appropriate answer from the options given below:
 (a) A, B and C only
 (b) B, C and D only
 (c) C, D and E only
 (d) A, B, C, D and E
19. In APA style of referencing for a journal article, which of the following would come in the end?
 (a) Last name of the author
 (b) Title of the research article
 (c) Page numbers
 (d) DOI number
20. Many nations blend petrol with ethanol to reduce the emission of CO. The mixture is known as
 (a) Gasol (b) Petrohol
 (c) Gasohol (d) Ethopetrol
21. Given below are two statements:
Statement I: In Cohort studies, samples are drawn from a generally defined population over time.
Statement II: In Trend studies, samples are drawn from specific well defined population.
 In the light of the above statements, choose the most appropriate answer from the options given below.
 (a) Both Statement I and Statement II are correct
 (b) Both Statement I and Statement II are incorrect
 (c) Statement I is correct but Statement II is incorrect
 (d) Statement I is incorrect but Statement II is correct
22. Given below are two statements:
Statement I: Solid State Drives (SSDs) are considerably faster than Hard Disk Drive (HDDs) when it comes to data access.
Statement II: RAM is much faster to write to or read from in comparison to secondary memory such as hard disk, but its main drawback is its violability.
 In the light of the above statements, choose the correct answer from the options given below:
 (a) Both Statement I and statement II are true
 (b) Both Statement I and statement II are false
 (c) Statement I is true but statement II is false
 (d) Statement I is false but statement II is true

23. Sharing of meaning between two positions of thought within a person is called
- Selfish communication
 - Intra-personal communication
 - Inter-personal communication
 - Spiritual communication

24. Mr. Kim wants to create a lived polling and feedback tool for his students in this context which of the following would be most suitable?

- | | |
|-----------------|-----------------------|
| A. Mentimeter | B. Screen-casto-matic |
| C. Padlet | D. Poll everywhere |
| E. Book-creator | |

Choose the most appropriate answer from the options given below:

- | | |
|---------------------|------------------|
| (a) B, C and E only | (b) A and D only |
| (c) A, B and D only | (d) C and E only |

25. Given below are two statements.

Statement I: Perceptual time is related to the processing of non-verbal cues or signals by us.

Statement II: Signalic or perceptual communication is related to the induction of others' communication into our brains, and this kind of communication is also known as semiotics.

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

- Both Statement I and statement II are true
- Both Statement I and statement II are false
- Statement I is true but statement II is false
- Statement I is false but statement II is true

26. In decision-making process, group communication helps in maintaining

- Status of top management
- Policy deviation
- Ethnic prejudices
- Equilibrium related socio-emotional concerns

27. If 'MALE' is coded as 31 and 'FEMALE' is coded as 42, then how will 'ADULT' be coded in the same scheme?

- | | |
|--------|--------|
| (a) 35 | (b) 53 |
| (c) 58 | (d) 62 |

28. What is the name of the computing term described below?

Software that gives the user the change to try it out free of charge before actually buying it. The software is subject to the usual copyright laws. As a rule, not all the features found in the full version are available at this stage

- | | |
|--------------|---------------|
| (a) Freeware | (b) Shareware |
| (c) Firmware | (d) Malware |

29. Which fallacy is exemplified in the following statement. "There is no such thing as knowledge which cannot be carried into practice, for such knowledge is really no knowledge at all"?

- Begging the question
- Hasty Generalization
- Red Herring
- Slippery slope

30. Given below are two statements.

Statement I: Google Meet is a pure Cloud-based Video conferencing solution.

Statement II: Google Meet provides clouds storage as well as the ability to open and modify documents online.

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

- Both Statement I and statement II are true
- Both Statement I and statement II are false
- Statement I is true but statement II is false
- Statement I is false but statement II is true

31. Given below are two statements.

Statement I: Screen chamber in wastewater treatment is used to remove small and heavy suspended solids.

Statement II: Grits chamber in waste treatment is used to remove large floating materials.

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

- Both Statement I and Statement II are correct
- Both Statement I and Statement II are incorrect
- Statement I is correct but Statement II is incorrect
- Statement I is incorrect but Statement II is correct

32. Which of the following are emphasized in high-context cultures?

- Use of Colloquialism
- Fractured in communication
- Politeness in communication
- Non-verbal communication
- Indirect phrasing

Choose the correct answer from the option given below:

- (a) A, B and C only (b) B, C and D only
(c) C, D and E only (d) A, B and E only
33. The college that was exclusively meant for the education of Indian princes before independence was
(a) Reid college, Lucknow
(b) Daly college, Indore
(c) St. Xavier college, Kolkata
(d) Forman college, Lahore
34. Which formal fallacy is committed in the following argument: "if your pet is a cat, then it is a tail? Your pet is not a cat. Therefore your pet does not have a tail?"
(a) Existential fallacy
(b) Denying the antecedent
(c) Exclusive premises
(d) Affirming the consequent
35. Arrange the following group of terms in order of decreasing extension.
A. Mammal B. Wildcat
C. Feline D. Animal
E. Vertebrate
- Choose the correct answer from the option given below:
(a) C, B, E, A, D (b) B, C, A, E, D
(c) D, A, E, B, C (d) D, E, A, C, B
36. A rectangular sports field has dimensions (150m × 120m). Its length is increased by 0.8% and width is reduced by 0.5%. What is the present change in the area of the field?
(a) ~0.3% (b) ~0.4%
(c) ~1.3% (d) ~1.6%
37. When was the Environmental protection Act (1986) last amended?
(a) 1990 (b) 1991
(c) 1992 (d) 1993
38. What are the different steps followed by the self-regulated learning?
A. Setting goals
B. Analyzing the task
C. Regulating learning
D. Devising plans
E. Enacting tactics and strategies

Choose the correct answer from the option given below:

- (a) C, A, B, D, E (b) D, C, A, E, B
(c) B, A, D, E, C (d) D, C, E, A, B
39. Given below are two statements:
Statement I: The Hindu view of communication considers language as a tool to understand an illusory world.
Statement II: According to the Hindu view of communication, hearing and understanding of language are for realization of some state of affairs.
In the light of the above statements, choose the correct answer from the option given below.
(a) Both Statement I and Statement II are true
(b) Both Statement I and Statement II are false
(c) Statement I is true but Statement II is false
(d) Statement I is false but Statement II is true
40. Higher education in ancient India was based on an integrated system of
A. Ahimsa (Non-violence)
B. Dharma (Religion)
C. Darshan (Philosophy)
D. Arth Shastra (Economics)
E. Niti (Ethics)
- Choose the correct answer from the options given below:
(a) A, B and C only (b) A, C and D only
(c) A, D and E only (d) B, C, D and E only
41. A collection of the student's work in an area, showing growth, self-reflection, and achievement is called as
(a) Positive practice
(b) Personal development
(c) Anecdotal record
(d) Portfolio
42. Find the missing term in the following series
0, 6, 24, 60, 120, ?, 336
(a) 180 (b) 210
(c) 272 (d) 316
43. Which one of the following gases has the maximum Global Warming Potential (GWP)
(a) Methane (CH₄)
(b) Nitrous Oxide (N₂O)
(c) Carbon dioxide (CO₂)
(d) Carbon Monoxide (CO)

44. Given below are two statements.

Statement I: Contiguity theory gives no place to effect in learning.

Statement II: Watson's theory gave emphasis on the important of frequency or exercise in learning. In the light of the above Statements, choose the most appropriate answer from the options given below:

- (a) Both Statement I and Statement II are correct
- (b) Both Statement I and Statement II are incorrect
- (c) Statement I is correct but Statement II is incorrect
- (d) Statement I is incorrect but Statement II is correct

45. Given below are two statements.

Statement I: In deductive arguments, the claim is made that conclusions follow with certainty from their premises.

Statement II: Any inductive argument, if it's good brings to light in its conclusion what was already buried in its premises.

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

- (a) Both Statement I and Statement II are correct
- (b) Both Statement I and Statement II are incorrect
- (c) Statement I is correct but Statement II is incorrect
- (d) Statement I is incorrect but Statement II is correct

Direction (Q46-50): Read the following passage and answer the questions that follow.

Political freedom and economic justice are two sides of democracy; both are essential. We should lay stress on the improvements of the economic conditions of the people as well as on liberty and freedom. No society can claim to be democratic if it does not permit political liberty, freedom of conscience, freedom of choice between parties, and opportunities of peaceful and orderly changes of government.

In the context of the international situation, there are many misunderstandings. We can build peace even on the basis of misunderstandings. When once peace is built, misunderstandings will diminish.

We, in our country, are now engaged in the enterprise of effecting a social and economic revolution. The word 'revolution' need not scare us. It does not mean barricades and bloodshed. It means only speedy and

drastic changes. We are interested not only in our objectives but in our methods; not only in what we achieve but in how we achieve. Though peaceful, constitutional processes we won our independence and integrated our country; and now we are striving to raise the material standards of our people. Even if we meet defeat in our attempt to replace force by persuasion, the politics of power by the politics of brotherhood, we are convinced that the defeat will be only temporary, for goodness is rooted in the nature of things; kindness and love are as contagious as unkindness and hate.

46. Given below are two statements.

Statement I: In international arena, understandings are as pre-requisite for building peace.

Statement II: India achieved its independence and integration through peaceful revolution.

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

- (a) Both Statement I and Statement II are true
- (b) Both Statement I and Statement II are false
- (c) Statement I is true Statement II is false
- (d) Statement I is false Statement II is true

47. Economic standards of people could be raised by

- (a) Force
- (b) Politics of power
- (c) Politics of Brotherhood
- (d) Politics of exclusion

48. Which of the following traits of human nature are considered to be contagious?

- A. Honesty
- B. Kindness
- C. Love
- D. Hate
- E. Integrity

Choose the correct answer from the options given below:

- (a) A, B and C only
- (b) B, C and D only
- (c) C and D only
- (d) B, D and E only

49. The word 'revolution' in the passage implies

- (a) Bloodshed
- (b) Violent protests
- (c) Political transformation
- (d) Social and economic transformation

50. For a democratic society it is essential to have

- A. Complete literacy
- B. Political freedom
- C. Freedom of individual
- D. Population control
- E. Economic justice

Choose the correct answer from the options given below:

- (a) A, B and E only
- (b) B, C and D only
- (c) C and D only
- (d) B, C and E only

ANSWER KEY

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

*Q18: Dropped by NTA.