

Previous Year's Paper

SET - V

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 shows the number of males (M) and Females (F) (in thousands) in Towns X and Y during the five years from 2018 to 2022. Based on the data in the table, answer the following questions.

Year wise numbers of Males and Females in two Towns (in thousands)

Years	Town X		Town Y	
	Number of males	Number of females	Number of males	Number of females
2018	50	49	53	50
2019	52	49	54	52
2020	55	52	55	54
2021	53	53	58	56
2022	55	52	62	55

- Find the number of years in which the number of females in Town X and Y is less than their respective average numbers in these two towns.
(a) One, two (b) Two, two
(c) Three, two (d) Two, one
- For town Y, the percentage increase in the number of females for a given year with reference to the previous year is maximum in the year_____.
(a) 2022 (b) 2021
(c) 2020 (d) 2019
- The Population of Town X in 2018 and 2019 together approximately_____ % of the population of Town Y in 2021 and 2022 together?
(a) 86.6 (b) 89.6
(c) 81.6 (d) 84.5
- What is the ratio of the average number of males in Town X to the average number of males in Town Y for the given period?
(a) 269 : 282 (b) 265 : 281
(c) 265 : 283 (d) 265 : 282
- In which of the following pairs of years, the difference in the number of males and females is maximum for town Y and minimum for Town X respectively?
(a) 2018 and 2021 (b) 2022 and 2018
(c) 2022 and 2021 (d) 2020 and 2022
- In a certain coded language:
A. 'Best way to win' is written as 'bau mau shau sa'
B. 'The way to hell' is written as 'tau mau sa hau'
C. 'Win of the day' is written as 'shau fau tau dau'
What is the code for 'bell' in this language?
(a) 'hau' (b) 'mau'
(c) 'shau' (d) 'tau'
- A researcher computes sample correlation coefficients r_1, r_2, r_3 and r_4 from four different samples and obtains their p-values 0.99, 0.999, 0.005, respectively. Correlation coefficient significant at 1% level is
(a) r_1 (b) r_2
(c) r_3 (d) r_4

8. Given below are two statements.

Statement I: According to NEP 2020, at present the investment in research and innovation in India is only <1% of GDP.

Statement II: NEP 2020 recommends the establishment of a National curriculum framework for Teacher Education.

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
9. In the light of nature of reasoning and arguments pick out the incorrect statement(s).
- A. An invalid argument can have any combinations of truth or falsity in the premise or conclusion
 B. No valid argument can have true premises and a false conclusion
 C. Deductive arguments can be 'almost valid'
 D. Valid does not mean true.

Choose the correct answer from the options given below:

- (a) A and B (b) B and C
 (c) C (d) D
10. Vladimir Zworykin was associated with the invention of
- (a) Color printing (b) Radio
 (c) Television (d) Internet
11. Identify the fallacy committed in the following argument:
 "Capital punishment is morally wrong because it is impermissible to inflict death as punishment for crime"
- (a) Two wrongs make a right
 (b) Look who is talking
 (c) Begging the question
 (d) Scare tactics

12. Given below are two statements

Statement I: Biomagnifications occurs when the toxic burden of large number of organisms at higher trophic level is accumulated and concentrated in the organisms at lower trophic level.

Statement II: The effect of toxins are magnified in the environment through food webs.

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 are false
 (d) Statement I is false but Statement II are true
13. Given below are two statements: one is labelled as Assertion A and other is labelled as Reason R
Assertion (A): Experimental research allows you to eliminate the influence of May extraneous factors.
Reason (R): In experimental research variable are actively manipulated and environment is as controlled as possible.
- 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. What number would replace question mark (?) in the series below?
 1.5, 4, 7.5, 12, 17.5, 24, 31.5, ?
- (a) 55.5 (b) 38
 (c) 40 (d) 45
15. If man invested Rs 20,000 in some shares in the ratio 2:3:5 which pay dividends of 10%, 30% and 20%, respectively, on the investments in that year. Find the total dividend income of the man.
- (a) Rs 4200 (b) Rs 4500
 (c) Rs 4800 (d) Rs 5000
16. Most of the countries in International Solar Alliance lie
- (a) Above tropic of cancer
 (b) Below tropic of cancer
 (c) Between tropic of cancer and Capricorn
 (d) In the Southern hemisphere
17. Arrange the following steps involved in a research process in correct order.
- A. Collecting the data
 B. Reviewing the literature
 C. Reporting the research outcome
 D. Identifying a research problem
 E. Analyzing and interpreting the data
- Choose the correct answer from the options given below:
- (a) A, D, B, E, C (b) D, A, B, C, E
 (c) B, D, A, E, C (d) D, B, A, E, C

18. A computer processor will operate fastest when the data that it wants is in the
 (a) Cache Memory (b) Hard Disk
 (c) Optical Disk (d) Main Memory
19. The first Education commission of India also adhered to
 (a) The one-language formula
 (b) The two-language formula
 (c) The three-language formula
 (d) The four-language formula
20. Which of the following are the basic requirements for effective teaching?
 A. Teaching only what is included in the curriculum
 B. Good communication skills
 C. Using a rigid teaching approach
 D. Excellent subject knowledge
 E. Ability to connect with students
- Choose the correct answer from the options given below:
 (a) A and C only (b) C and E only
 (c) B, D and E only (d) A, C and D only
21. Given below are two statements.
Statement I: Propaganda communication at the National level is supposed to recognize the fact that truth need not be separated from falsehood.
Statement II: The mediated propaganda process blurs truth and falsehood in order to be persuasive.
 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
22. Given below are two statements.
Statement I: Shareware is a Software that the user can try out for a trial period only, before being charged.
Statement II: Freeware is a Software that the users can download free of charge, but they cannot modify the source code in any way.
 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. Which of the following factor affect mediated persuasion?
 A. Extended media reach
 B. Round-the-clock communication
 C. Media differences
 D. Audience fragmentation
 E. Message characteristics
- 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, B and E only
24. Given below are two statements
Statement I: Volatile Organic Compounds (VOCs) are emitted from vehicles.
Statement II: Volatile Organic Compounds are emitted from some trees.
 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
25. Which of the following are the benefits of collaborative learning environment?
 A. Improved communication skills
 B. Decreased understanding of different perspectives
 C. Increase motivation
 D. More opportunities for personal feedback
 E. Enhanced problem solving abilities
- Choose the correct answer from the options given below:
 (a) B, C and D only
 (b) A and E only
 (c) A, C, D and E only
 (d) A, B and D only
26. According to Samkhya School of thought a word signifies
 (a) Vyakti (b) Akriti
 (c) Jati (d) Vyakti-Akriti-Jati
27. Feedback is immediate in _____ communication.
 (a) Print (b) Broadcast
 (c) Top-down (d) Face-to-face
28. Given below are two statements
Statement I: Moodle is an example of a Learning Management System (LMS).

Statement II: Mentimeter is a tool used for creating online surveys.

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

29. Which of the following is a major advantage of online learning over offline learning?

- (a) Limited access
- (b) Flexibility
- (c) High cost
- (d) Inter-activity

30. What is the binary equivalent of the decimal number 84.125?

- (a) (1001001.111)
- (b) (1010101.101)
- (c) (1100101.001)
- (d) (1010101.001)

31. Light Water Reactor (LWR) are nuclear reactors

- (a) Which use heavy water as a coolant
- (b) Which use graphite rod as moderator
- (c) Which use ordinary water as moderator
- (d) Which use steam as moderator

32. Given below are two statements

Statement I: The purpose of a blind study is to prevent the participants from figuring out what the experimental wants.

Statement II: Interaction between the experimenter and the participants is always beneficial in social science.

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

33. Match List I with List II

LIST I (Concept)		LIST II (Definition)	
A.	Argument	I.	A deductive argument that either is invalid or has atleast one false premise
B.	Strong argument	II.	An inductive argument in which the conclusion does not follow probably from the premises
C.	Unsound argument	III.	An inductive argument in which the conclusion follow probably from the premises
D.	Weak argument	IV.	A set of statements in claims (conclusion) is defended with reason (premise)

Choose the correct answer from the options given below:

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

34. Given below are two statements:

Statement I: The Upanayana ceremony which marked the initiation of a child into a study of the Vedas was performed for boys as well as for girls.

Statement II: Both boys and girls received education in 'Ashrams' and 'Gurukulas' in ancient India.

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

35. The simple interest on a certain principal amount for 4 years at 10% per annum is half of the compound interest Rs 1000 for 2 years at 20% per annum. Find the principal amount.

- (a) Rs 500
- (b) Rs 450
- (c) Rs 650
- (d) Rs 550

36. The property of data such that research results apply to situations beyond the particular sample of individuals/items observed in a single research setting, refers to

- (a) Internal Validity
- (b) Convergent Validity
- (c) Divergent Validity
- (d) External Validity

37. Given below are two statements in the NEP 2020:

Statement I: High performing India Universities will be encouraged to set up campuses in other countries.

Statement II: Selected universities from among the top 500 universities in the world will be facilitated to operate in India

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

38. Given below are two statements:

Statement I: Exposure to noise pollution adversely affects the physiological health of a person.

Statement II: Exposure to noise pollution adversely affects the physiological health of a person.

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

39. Danny is buying a new computer that has an LED display. Which of the following statements about LED displays are true?

- A. It is a flat panel display
- B. It creates images using red, green and blue diodes.
- C. It is not very energy efficient and gives off heat
- D. It can be used in mobile devices such as smart phones and tablets
- E. It is always a front-lit display

Choose the correct answer from the options given below:

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

40. What are the advantages of digital media?

- A. Network communication is avoided.
- B. People can create and distribute media content,
- C. The end product can be delivered in real time.
- D. Reproduction and distribution of information products are less expensive.
- E. Online political involvement is of no importance.

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, B and E only

41. Given below are two Statement:

Statement I: 'The jar does not exist' is common to all kinds of non-existence.

Statement II: 'The jar will exist' refers to previous non-existence.

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

42. Given below are two Statement:

Statement I: Choice Based Credit System (CBCS) has been adopted only in the central universities of India.

Statement II: Choice Based Credit System (CBCS) assigns credits based on the learning outcomes of a course.

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

43. Match List I with List II

LIST I (Data Transmission modes in computer network)		LIST II (Description)	
A.	Simplex	I.	Data can be sent and received at the same time.
B.	Duplex	II.	Data can only be sent or received.
C.	Half -duplex	III.	Data can be sent and received but not at the same time

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

44. A man travels from his home to his office at a speed of 4 km/h and reaches his office 30 minutes late. If his speed had been 6 km/h, he would have reached office 5 minutes early. Find the distance of his office from his home.

- (a) 8.5 km (b) 7 km
- (c) 8 km (d) 9 km

45. In the light of changes introduced to the existing universities under the Indian Universities Act 1904; which among the following is incorrect.

- A. An enlargement of the functions of the universities.
- B. the introduction of the new principle of election to the senate
- C. Definition of the territorial units of the universities
- D. Increase in the size of the universities senate

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

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

As part of the great cultural renaissance generated during the post-independence period, there has occurred a most meaningful encounter with tradition in various fields of creative activity. The return to and discovery of tradition was inspired by a search for roots and a quest for identity. This was a part of the whole process of decolonization of our lifestyle, values, social institutions, creative forms and cultural modes.

The modern Indian theatre, product of a colonial theatrical culture, felt the need to search for roots most intensely to match its violent dislocation from the traditional course. Directors like B.V. Karanth, K.N. Paanikar and Ratan Thiyam have had a most meaningful encounter with tradition and, with their work, have reversed the colonial course of contemporary theatre and put it back on the track of the great Natyashastra tradition. It sounds paradoxical, but their theatre is both avant-garde in the context of conventional realistic theatre, and still belongs to the Natyashastra tradition.

46. The return to and discovery of traditional in post-independence era was inspired by
- Search for values
 - Search for roots
 - Search for realism
 - Search for identity

Choose the correct answer from the options given below:

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

47. The Natyashastra tradition refers to
- The colonial tradition
 - Avant-garde theatre
 - Conventional realistic theatre
 - Indian theatrical tradition
48. Decolonization is the process of
- Becoming independent from
 - Becoming dependent on
 - Relying on
 - Learning from
49. Post-Independence cultural renaissance in Indian theatre focused on
- Development of Western theatre
 - Return to traditional Western theatre
 - Search for traditional Indian theatre
 - Modern Western theatre
50. The Most significant contribution of Directors like B.V Karanth, K.N. Panikkar and Ratan Thiyam was
- Making Indian theatre totally traditional
 - Making Indian theatre backward
 - Dislocating Indian theatre from the traditional Indian Theatre
 - Bringing about an amalgamation of the Indian theatrical with Western realistic theatre

ANSWER KEY

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

