

Previous Years' Paper (Solved)
National Testing Agency (NTA)
UGC-NET (JRF) Online Exam, June-2021

(Exam held on 26 December, 2021)

PAPER-I

Directions (Qs. No. 1-5): Study the given table and answer the questions that follow.

Given below is a table having the number of athletes (in hundreds) who participated in a sports event from 4 different countries (A, B, C, D). M-Male, F-Female.

Year	Countries							
	A		B		C		D	
	M	F	M	F	M	F	M	F
2016	3.6	3.2	4.2	3.7	3.4	2.8	5.6	4.2
2017	4.3	2.9	3.8	1.7	3.2	1.9	4.8	3.8
2018	5.3	3.9	5.4	3.7	3.7	2.2	6.4	4.2
2019	6.7	4.3	6.7	5.6	3.1	1.8	5.6	2.8
2020	8.3	7.2	6.9	5.4	4.1	2.5	5.4	2.7

- What is the percentage of female athletes in 2017?
A. 37% B. 38%
C. 39% D. 40%
- Which country has the best 'Total Male-Female ratio' from 2016 to 2020?
A. A B. B
C. C D. D
- Find out the difference between total male athletes in 2016 and total male athletes in 2017.
A. 0.6 B. 0.7
C. 0.8 D. 0.9

- Which country has the minimum number of male athletes during 2016 to 2020?
A. A B. B
C. C D. D
- Which country has the highest number of female athletes during 2016 to 2020?
A. A B. B
C. C D. D
- There are various steps for creating survey forms using ICT application like Google Forms.
(a) Select question type and create
(b) Give name to survey form and save
(c) Make questions mandatory/keep optional
(d) Share with respondents
(e) Configure the settings
Choose the *correct* answer from the options given below:
A. (a), (c), (b), (e), (d)
B. (b), (d), (e), (c), (a)
C. (c), (d), (a), (b), (e)
D. (d), (b), (c), (a), (e)
- Association of Indian Universities (AIU) is established with an objective to:
(a) Maintain quality and standards of universities
(b) Serve as an Inter-University Organization
(c) To facilitate communication, co-ordination and mutual consultation amongst universities
(d) To recognise universities to run different courses

(e) To act as a liaison between the universities and the governments.

Choose the correct answer from the options given below:

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

8. Match List-I with List-II:

<i>List-I</i>	<i>List-II</i>
(a) Selective coding	I. To discover the most significant or frequent initial code that makes the most analytical sense
(b) Initial coding	II. The procedure of selecting the core category, Systematically relating it to other categories, validating their relationships, and filling in categories that need further refinement and development
(c) Focused coding	III. It specifies possible relationships between categories, these are integrative
(d) Theoretical coding	IV. Comparing data with data, staying close to and remain open to exploring what is happening in data, construct and keep the code short, simple, precise and active.

Choose the correct answer from the options given below:

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

9. Match List-I with List-II:

<i>List-I</i>	<i>List-II</i>
(a) Network System	I. Email
(b) Operating System	II. Firewall

- | | |
|-------------------|----------|
| (c) Memory | III. Mac |
| (d) Communication | IV. ROM |

Choose the correct answer from the options given below:

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

10. Which of the following is taken to mean inference by elimination, in which the inferred character is the residuum of a process of elimination that excludes other characters?

- A. Paksa
 B. Purvavat Anumana
 C. Samanyatodrshta
 D. Sheshavat Anumana

11. What number comes next in this sequence?

19648, 1728, 112, ?

- A. 12
 B. 2
 C. 22
 D. 62

12. A, B and C share a certain sum of money among themselves. A gets 35%, B gets ₹ 1500 and C gets 1/20. How much is the original sum of money?

- A. ₹ 1500
 B. ₹ 2000
 C. ₹ 2250
 D. ₹ 2500

13. Match List-I with List-II:

<i>List-I</i> (Communication paradigms)	<i>List-II</i> (Description)
(a) Encoding-decoding	I. Realistic imagination of others' views
(b) Intentionalist	II. Participants are autonomous information processors
(c) Perspective taking	III. Conceiving communication as a process that uses language
(d) Dialogism	IV. Purposeful use of language

Choose the correct answer from the options given below:

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

14. Which of the following statements are correct?

- (a) A bullet covers 55 meters in 2 seconds. Its speed is 99 km/hr
- (b) A can complete a work in 10 days. In 5 days, he can complete $\frac{1}{5}$ fraction of the work.
- (c) Walking at $\frac{3}{4}$ of his usual speed, a girl is late by $2\frac{1}{2}$ hours. Her usual time is $7\frac{1}{2}$ hours.

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. (c) only
15. The statutory body responsible for maintaining quality and standard of teacher education in the country is:
- A. AICTE B. NCERT
C. NCTE D. UGC
16. What type of validity is this in which the researcher is encouraged to deduce hypotheses from a theory that is relevant to the concept?
- A. Concurrent validity
B. Construct validity
C. Convergent validity
D. Face validity

17. Match List-I with List-II:

- | | |
|----------------|-----------------------------|
| List-I | List-II |
| (Organization) | (Nature of course for MOOC) |
| (a) CEC | I. Out of school students |
| (b) IGNOU | II. Undergraduate education |

(c) NIOS III. Teacher Training Programme

(d) NITTTR IV. School education

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

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

18. Identify the sequence of cultural barriers in communication as listed by experts:

- (a) Methods of conflict resolution
(b) Difference in tolerance of conflicts
(c) Semantic
(d) Tone difference
(e) Word connotation

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

- A. (a), (c), (e), (d), (b)
B. (c), (e), (d), (b), (a)
C. (d), (b), (c), (a), (e)
D. (e), (a), (b), (c), (d)
19. Read the following statement and choose the CORRECT code:
- (a) Radio frequency identification systems use radio waves to read and capture information
- (b) MICR (Magnetic Ink Character Recognition) characters are easy to forge and cannot be written over
- (c) OMR (Optical Mark Recognition) reads marks written in pencil or pen in specific places on a term.
- (d) Optical Character Recognition (OCR) scans the text and converts it into a computer-readable format
- (e) Barcodes can be forged or damaged

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

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

20. In a classroom context, when innumerable meaningful messages emanate from a finite number of linguistic signals, it is called:
- Cognition
 - Information processing
 - Productivity
 - Semanticism

21. What is the type of graphic organiser or mind tool used for knowledge organisation that can help learners interpret, represent, and organise information by making a graphic in cooperation with others?

- Concept mapping
- Divergent question
- Gestural prompts
- Hyper media

22. Which of the following contaminants in water can cause adverse human effects such as mental disturbance and impairment of speech, hearing and vision?

- Arsenic
- Lead
- Methyl mercury
- Nickel and Chromium

23. Given below are two statements:

Statement I : Open coding is achieved by linking codes to contacts to consequences to patterns of interaction and to causes.

Statement II : Axial coding is the process of breaking down, examining, comparing, conceptualizing, and categorizing data.

In 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

24. What is a Utility program?

- It is a part of the operating system which carries out defragmentation or disk formatting
- It makes copies of files on another storage device
- It permits the sharing and exchange of data
- It translates data into a format understood by the device

25. What is the name of the process in which the listener provides feedback to the speaker about the message heard and the emotion conveyed and lets the speaker realize how he or she is being understood and respected?

- Active listening
- Active responding
- Adaptive teaching
- Centering behaviour

26. Which among the following constitute personal competence?

- Empathy
- Motivation
- Social skills
- Self awareness
- Self regulation

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

- (a), (b) and (c) only
- (b), (c) and (d) only
- (b), (d) and (e) only
- (c), (d) and (e) only

27. Which of the following is NOT a parameter for ranking according to NIRF?

- Campus Placement
- Outreach and inclusivity
- Research and Professional practice
- Teaching, Learning and Resources

28. Match List-I with List-II:

- | <i>List-I</i> | <i>List-II</i> |
|----------------------------------|----------------|
| (a) The Education commission | I. 2009 |
| (b) National Policy on Education | II. 1964-66 |

(c) University Education Commission III. 1986

(d) National Knowledge Commission IV. 1948-49

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

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

29. Given below are two statements:

Statement I : Every time a device connects to a network, it is given an IP (Internet Protocol) address.

Statement II : Devices that never disconnect retain the same IP address.

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

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false but Statement II is true
- D. Statement I is true but Statement II is false

30. Given below are two statements:

Statement I : Communication reflects the dimension of power.

Statement II : Power and unethical communication are strongly inter-related.

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

- A. Both Statement I and Statement II are false
- B. Both Statement I and Statement II are true
- C. Statement I is false, but Statement II is true
- D. Statement I is true, but Statement II is false

31. The advantages of diagonal communication are:

- (a) Resistance
- (b) Sidetracking
- (c) Anomic
- (d) Morale boosting
- (e) Co-ordination

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

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

32. Senthil said, "This lady is the wife of the grandson of my mother." Senthil is the only son of his mother and has no sister. Who is Senthil to the lady?

- A. Brother
- B. Daughter-in-law
- C. Father-in-law
- D. Husband

33. Match List-I with List-II:

<i>List-I</i> (Proposition in Square of Opposition)	<i>List-II</i> (Resultant)
(a) If 'A' is False	I. 'E' is False; 'I' is True
(b) If 'E' is False	II. 'A' is True; 'E' is True
(c) If 'I' is False	III. 'A' and 'O' are Undetermined
(d) If 'O' is False	IV. 'E' and 'I' are Undetermined

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

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

34. Nationally Determined Contributions of European Union (EU) countries aim at a reduction in Green House Gas emissions by the year 2030 (in the reference to 1990 levels) to the extent of:

- A. 35%
- B. 40%
- C. 50%
- D. 55%

35. When a middle term does not go further than producing a state of mental oscillation between two opposite views, the case is known as:
- Fallacy of Asiddha (unproved middle)
 - Fallacy of Prakaranasam (counteracted middle)
 - Fallacy of Savyabhichara (irregular middle)
 - Fallacy of Viruddha (contradictory middle)

36. Identify the correct sequence of countries that are the world's leading geothermal power (in MW) producers.
- New Zealand
 - Iceland
 - USA
 - Indonesia

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

- (a) > (c) > (b) > (d)
- (c) > (a) > (b) > (d)
- (c) > (d) > (a) > (b)
- (d) > (c) > (a) > (b)

37. The form of asking mainly closed-ended questions that has been used in connection with the examination of people's normative standards is known as:
- Abductive technique
 - Hermeneutics technique
 - Outlier technique
 - Vignette technique

38. Given below are two statements:

Statement I : If two numbers divided by a third number give the same remainder, their difference is exactly divisible by that number.

Statement II : Least common multiple of two or more given numbers is the largest number which is exactly divisible by each of them.

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

- Both Statement I and Statement II are false
- Both Statement I and Statement II are true

- Statement I is false, but Statement II is true
- Statement I is true, but Statement II is false

39. Which of the following are the missions of the National Action Plan on Climate Change?
- National Solar Mission
 - Green Indian Mission
 - Western Ghat Development Mission
 - National Water Mission
 - Air Pollution Mitigation Mission

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

- (a), (b) and (e) only
- (a), (b) and (d) only
- (a), (b), (d) and (e) only
- (a), (c), (d) and (e) only

40. Match List-I with List-II:

<i>List-I</i>	<i>List-II</i>
(a) Montreal Protocol	I. Environment and sustainable development
(b) Rio Summit	II. Reduce the emission of Green House Gases
(c) Kyoto protocol	III. Climate change mitigation and adaptation
(d) Paris agreement	IV. Ozone Depletion

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

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

41. Given below are two statements:

Statement I : In a learning organisation, the learning of teachers, their professional development, and the learning of children, their education, are inevitably complementary and mutually reinforcing.

Statement II : Intrapersonal intelligence does not involve understanding the inner world of emotions and thoughts, and developing the ability to control and consciously work with them.

In 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
42. Name the fallacy committed in
 "Some good actors are not strong men.
 All professional wrestlers are strong men.
 Therefore, All professional wrestlers are good actors."
- A. Affirmative conclusion from Negative Premises
 - B. Illicit major
 - C. Illicit minor
 - D. Undistributed middle

43. Match List-I with List-II:

<i>List-I</i>	<i>List-II</i>
(a) Measurement Application	I. Automatic Oven
(b) Control Application	II. Website
(c) Modelling Application	III. Weather station
(d) Communication Application	IV. Car Crash Simulator

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

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

44. Which of the following pertains to fallacy of ambiguity?
- A. Equivocation
 - B. Hasty generalization
 - C. The red herring
 - D. The straw man
45. SWAYAM is initiated by Govt of India with an objective to
- (a) Ensure best quality content produced and delivered
 - (b) Provide quality materials with nominal cost
 - (c) Teach all classes from class-IX to PG
 - (d) Assess students continuously and grant degrees
 - (e) Accessed by anyone, anywhere at anytime

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

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

Directions (Qs. No. 46-50): Read the given passage and answer the following question.

Several organisational factors that cause stress—particularly task and role demands—are controlled by management and thus can be modified or changed. Strategies to consider include improved employee selection and job placement, training, realistic goal-setting, redesign of jobs, increased employee involvement, improved organisational communication, employee sabbaticals, and corporate wellness programmes. Certain jobs are more stressful than others, but, as we have seen, individuals differ in their response to stressful situations. We know individuals with little experience or an external locus of control tend to be more prone to stress. Selection and placement decisions should take these facts into consideration. Obviously, management should not restrict hiring to only experienced individuals with an internal locus, but such individuals may adapt better to high stress jobs more effectively. Similarly, training can increase an individual's self-efficacy and thus lessen

job strain. Individuals perform better when they have specific and challenging goals and receive feedback on their progress toward these goals. Goals can reduce stress as well as provide motivation. Employee who are highly committed to their goals and see purpose in their jobs experience less stress, because they are more likely to perceive stress as challenge rather than a hindrance. Specific goals perceived as attainable clarify performance expectation. In addition, goal feedback reduces uncertainties about actual job performance. The result is less employee frustration, role ambiguity and stress. Predesigning job to give employee more responsibility, more meaningful work, more autonomy and increased feedback can reduce stress because these factors give employees greater control over work activities and less dependence on others.

46. Which of the following form the management strategy for reducing organisational stress factor?

- (a) Achievable goals
- (b) Employee wellness
- (c) Compulsory leave
- (d) Top-down communication

Choose the *correct* option:

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

47. What type of people are more prone to stress than others in the organisation?

- A. Employee with internal locus
- B. Individuals with job experience

C. People who are assigned new responsibilities

D. People with outside position of control

48. The measures suggested in the passage to reduce organisational stress are:

- (a) Redeployment of employees
- (b) Allowing workers more control over their activities
- (c) Retrenchment of non-performers
- (d) Re-distribution of specific goals
- (e) Re-designing of jobs

Choose the *correct* option:

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

49. Employee frustration and role ambiguity can be reduced by:

- A. Assigning low stress work
- B. Changing the level of task performance
- C. Harsh evaluation of job performance
- D. Providing performance feedback to employee

50. Which of the following can reduce the job strain?

- (a) Hiring of only young people
- (b) Emphasising performance expectation
- (c) Commitment to the job
- (d) Perception of hindrances as challenges

Choose the *correct* option:

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