

**ENTRANCE EXAMINATIONS – 2021**

Ph.D. Education

**Duration: 2 Hours****Max. Marks: 70**

<b>Hall Ticket No.</b>
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**Instructions to the candidates**

Please read the instructions carefully before answering the questions:

1. Write your Hall Ticket No. in the OMR Answer Sheet given to you. Also write your Hall Ticket No. in the space provided above.
2. This Question paper consists of two parts: Part-A and Part-B contains with **35** Questions in each Part, printed in **12** pages excluding this page. OMR Answer sheet will be provided separately.
3. Each question carries one mark and there is **no Negative Marking**.
4. Answers are to be marked on the OMR Answer Sheet following the instructions provided thereon.
5. Please handover the **OMR Answer Sheet** at the end of the examination to the Invigilator. You may take the Question Paper after the examinations is over.
6. In case the candidates have equal marks, marks obtained in **PART-A** will be used for breaking the tie.
7. Cell/Mobile phones are strictly prohibited in the examination hall.

**Section A**

1. Since education is a behavioral science, the concern of educational research is to understand and to some degree predict and control the

- A. Human Behavior
- B. Human Nature
- C. Human Motivation
- D. Human relationship

2. While aim of fundamental research is contribution to the existing body of knowledge, it mainly involves with the:

- A. Development of doctrine
- B. Development of Research Designs
- C. Development of Educational methods
- D. Development of theory

3. A type of research that can be set within a specific context or a classroom situation and can be carried out by a teacher is called as:

- A. Basic research
- B. Educational research
- C. Applied research
- D. Action research

4. ....are properties or characteristics of some event, object, or person that can take on different values:

- A. Variables
- B. Statistics
- C. Parameters
- D. Constants

5. The conjectural statement about the relationship between variables is

- A. Objective
- B. Design
- C. Hypothesis
- D. Theory

6. Levels of significance and percentages of error are

- A. Conversely related
- B. Not related
- C. Inversely related
- D. Proportionately related

7. Listing of all members of the population is called as.....

- A. Sampling Unit
- B. Sampling Bias
- C. Sampling Error
- D. Sampling Frame

8. One of the following is NOT an example of non-probability sampling. Choose from below
- A. Purposive Sampling
  - B. Random Sampling
  - C. Quota Sampling
  - D. Snowball Sampling
9. The test which rejects the null hypothesis if the sample mean is significantly higher or lower than the hypothesized value of the mean of the population is
- A. Two-tailed test
  - B. Mann-Whitney test
  - C. One-tailed test
  - D. Chi Square test
10. Basing general conclusions upon specific facts gathered through direct observations is
- A. Deductive reasoning
  - B. Syllogism
  - C. Educational research
  - D. Inductive reasoning
11. Causal-comparative studies which attempt to identify cause-effect relationships also known as:
- A. Prediction Studies
  - B. Ex post facto research
  - C. Relationship Studies
  - D. Analytical Method
12. The four vital characteristics of an experimental research are Control, Manipulation, Observation, and
- A. Reciprocation
  - B. Reproduction
  - C. Replication
  - D. Rejection
13. A type II error is committed when researcher:
- A. Accepts null hypothesis when it is true.
  - B. Rejects null hypothesis when it is true.
  - C. Accepts null hypothesis when it is false.
  - D. Rejects null hypothesis when it is false.
14. The vital aspect that differentiates probability and non-probability sampling techniques is:
- A. Size of the sample
  - B. Randomness in the selection of units
  - C. Nature of the population sampled
  - D. Representativeness of the sample

15. One of the following cannot have a negative value
- A. Product moment correlation
  - B. Partial correlation
  - C. Multiple correlations
  - D. Rank difference correlation
16. As the sample size increases, the shape of the distribution becomes:
- A. More wider
  - B. More Skewed
  - C. More Normal
  - D. More flatter
17. The formula  $N-1$  is used to calculate:
- A. Df
  - B. SD
  - C. Median
  - D. Correlation
18. ANOVA is mainly used when need to compare .....of the several populations.
- A. Median
  - B. Means
  - C. SD
  - D. Mode
19. What is calculated using the ANOVA?
- A. F-Ratio
  - B. Z-Score
  - C. T-Value
  - D. t-Ratio
20. Factorial experiments include:
- A. One dependent variable
  - B. One independent variable
  - C. Two or more independent variable
  - D. Two or more dependent variable
21. How many levels do the second independent variable has in a  $3 \times 4 \times 5$  factorial design:
- A. 3
  - B. 4
  - C. 5
  - D. 2

22. In ANOVA, the number of covariate (s) may be:
- A. Any Number
  - B. Two
  - C. Three
  - D. Four
23. One may NOT go for calculation of correlation when the relationship between X and Y is:
- A. Positive
  - B. Negative
  - C. Linear
  - D. Curvilinear
24. The test which is also known as 'goodness of fit' is:
- A. Student's t-test
  - B. Chi-square test
  - C. ANOVA
  - D. ANCOVA
25. The usual sequence of steps in an action research design is as follows
- A. Reflect, observe, plan, act
  - B. Plan, act, observe, reflect
  - C. Plan, reflect, observe, act
  - D. Act, observe, plan, and reflect
26. One of the following tools need NOT be standardized
- A. Scale
  - B. Test
  - C. Observation schedule
  - D. Inventory
27. The stock register as one of the source of data is a type of:
- A. Scale
  - B. Inventory
  - C. Questionnaire
  - D. Schedule
28. One of the following may NOT be essential part of historical research
- A. Research Problem
  - B. Objective
  - C. Data
  - D. Hypothesis

29. In experimental research, the manipulated variable is known as:
- A. Intervening Variable
  - B. Independent Variable
  - C. Dependent Variable
  - D. Moderating Variable
30. A statistic is a characteristic of a sample, whereas a parameter is a characteristic of a
- A. Population
  - B. Variable
  - C. Data
  - D. Parametric tests
31. Sampling distribution of .....refers to the probability distribution of all the possible means of random samples of a given size taken from a population.
- A. Mean
  - B. Proportion
  - C. 't' distribution
  - D. 'f' distribution
32. In a .....the respondent by providing information tends unconsciously to project his own feelings
- A. Interview
  - B. Focus group discussion
  - C. Observation technique
  - D. Projective technique
33. Copying someone else's work without proper consent of the author of the original work is
- A. Academic dishonesty
  - B. Academic fraud
  - C. Deplagiarism
  - D. Plagiarism
34. APA is the style of documentation of sources used by
- A. the Association of Psychologists of America
  - B. the American Psychological Association
  - C. the American Philosophical Association
  - D. the American Psychological Advancements
35. Sociometry a qualitative method for measuring social relationships is developed by:
- A. Jacob L. Moreno
  - B. Carl Jung
  - C. Jean Piaget
  - D. Abraham Maslow

**Section B**

36. Formal operational stage' of cognitive development in Piaget's view will correspond to which stage of education in India?

- A. Primary education
- B. Elementary education
- C. Secondary education
- D. Higher education

37. A trainer so designs the training procedure that in the presence of cue, negative reinforcement is made contingent on making of a response by the trainee. The operant conditioning procedure so used is called by the name of :

- A. Escape training
- B. Punishment training
- C. Discriminated punishment training
- D. Active-avoidance training

38. One of the following pairs is INCORRECT?

- A. Carl Rogers- Person-Centered Theory
- B. Abraham Maslow- Hierarchy of needs
- C. Bandura- Social Cognitive Theory
- D. Gordon Allport – Type Theory of personality

39. Assertion (A): Motivation is a necessary factor in learning but in itself it is not sufficient for learning to occur.

Reason (R): Performance on a task depends on one's ability and motivation. Select the correct alternative from the following to indicate your answer.

- A. Both (A) and (R) are true and (R) is the correct explanation of (A).
- B. Both (A) and (R) are true but (R) is not the correct explanation of (A).
- C. (A) is true but (R) is false.
- D. (A) is false but (R) is true.

40. In the following two Lists, List-I indicates the theory of motivation while List-II gives the names of the promoters of these theories in a random order. Match the two Lists and indicate your answer by selecting from the code given below:

- | List-I<br>(Theory of Motivation)     | List-II<br>(Promoters of theories of motivation) |
|--------------------------------------|--|
| (a) Theory of Self Actualization     | (i) Allport                                      |
| (b) Theory of Achievement Motivation | (ii) Maslow                                      |
| (c) Theory of Ego-involvement        | (iii) Alderfer                                   |
| (d) ERG Theory                       | (iv) Mecclelland                                 |
| (e) Functional Autonomy Theory       | (v) Sherif and Cantril                           |
| (vi) Harlow                          |  |

Code:

- (a) (b) (c) (d) (e)
- A. (1) (i) (ii) (iii) (iv) (v)
- B. (2) (ii) (iv) (v) (iii) (i)
- C. (3) (ii) (iii) (iv) (v) (vi)
- D. (4) (iii) (iv) (ii) (v) (vi)

41. One of the following statements of adjustment process is in favour of the psychoanalytic model of adjustment?

- (a) Adjustment is objective and action-oriented process.
- (b) Learning plays an important role in adjustment.
- (c) Adjustment process can be explained in terms of schedules of reinforcement.
- (d) Ego mechanisms play an important role in adjustment.
- (e) Shaping forms part of the adjustment process.
- (f) Adjustment of a person with his/her environment is based on his/her personal and racial unconscious.

Select the alternative given in the following codes:

Codes:

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

42. Assertion (A): In order to be able to present learning materials in a systematic manner and to promote group learning a teachers IQ and EQ must be high.

Reason (R): IQ of an individual contributes to being systematic while EQ helps in understanding group needs.

Which of the following options is correct?

- A. Both (A) and (R) are true but (R) is not the correct reason for of (A).
- B. Both (A) and (R) are true, and (R) is the correct reason for of (A).
- C. Both (A) and (R) are false.
- D. (R) is true, but it cannot be the reason for (A).

43. If e-learning is combined with traditional classroom practices it is called

- A. blended learning
- B. online learning
- C. conventional learning
- D. offline learning

44. In Systems Approach, a system is a/an

- A. organised procedure
- B. unorganised procedure
- C. partly organised procedure
- D. unclassified procedure



45. 'Technology is the systematic application of scientific knowledge about teaching, learning and conditions of learning to improve the efficiency of teaching and training' is credited to

- A. Kenneth Richmond
- B. Derek Rowntree
- C. D.Unwin
- D. G.O.M.Leith

46. Consider the following statements pertaining to limitations of Educational Television.

- (i) It is one-way communication
- (ii) It encourages the active type of learning
- (iii) Follow-up activity hardly takes place
- (iv) It does not provide laboratory experience.

Choose the correct answer from the codes given below:

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (i), (iii) and (iv)
- D. (ii) and (iii)

47. Consider the following statements related to assessment of teaching competencies.

(i) ability to decide why, when, where and how ICT tools will contribute to teaching objectives.

(ii) inability to select and use appropriate tools to communicate.

(iii) inability to assist students to find, compare and analyse information from digital platforms.

(iv) ability to use ICT efficiently, choosing training sessions and participating in new developments in order to enhance professional development.

Choose the correct answer from the codes given below:

- A. (i) and (ii)
- B. (i) and (iii)
- C. (i) and (iv)
- D. (i), (ii), (iii) and (iv)

48. Put the following first seven categories pertaining to Teacher talk in Flanders System of Interaction Analysis into correct order.

- I. accept feelings
- II. lecturing
- III. praises or encourages
- IV. giving directions
- V. accepts or uses pupils ideas
- VI. criticizing of justifying authority
- VII. ask questions

Which order among the following is correct?

- A. I, III, V, VII, II, IV, VI
- B. I, VII, II, III, IV, V, VI
- C. I, III, II, V, IV, VI, VII
- D. I, II, IV, III, VI, V, VII

49. Which of the following are four steps of the John Keller's ARCS model of motivational design.

- |                    |                    |
|--------------------|--------------------|
| (i) Attention      | (ii) Attributes    |
| (iii) Relevance    | (iv) Relate        |
| (v) Confidence     | (vi) Concentrate   |
| (vii) Satisfaction | (viii) Stimulation |

Identify the correct answer from the codes given below:

- A. (i), (iii), (v) and (vii)
- B. (ii), (iv), (vi) and (viii)
- C. (i), (iv), (v) and (viii)
- D. (ii), (iii), (vi) and (vii)

50. Which is the correct option with regard to the teaching of Buddha

- A. Appetite, Dukha and yoga
- B. Discipline, Philosophy and knowledge
- C. Discipline, Meditation and wisdom
- D. Wisdom, Equality and Belief

51. In visual arts learning, students required to use verbal / written language for art appreciation and criticism because

- A. Language facilitates
- B. for certificate purpose
- C. develops proficiency
- D. transforms feelings and thought

52. Folk painting Madhubani is famous in the state

- A. Madhy Pradesh
- B. Bihar
- C. Rajasthan
- D. Orissa

53. "The school does not consist of the building and furniture on which the scanty allotment for education was thoughtlessly squandered away in imitation of the west" expressed by:

- A. John Dewey
- B. Rabindranath Tagore
- C. Abdul Kalam Azad
- D. Mahatma Gandhi

54. In the modern system of Education, one of the following thinkers brought about a paradigm shift regarding the place of the child

- A. John Dewey
- B. Plato
- C. Mahatma Gandhi
- D. J.J Rousseau

55. The truthfulness of rational knowledge is proven by referring to the theory of
- Consequence
  - Utility
  - Coherence
  - Correspondence
56. Martin Buber's I-Thou relationship is marked by:
- Mutuality, independence & humbleness and respect for power of others
  - Mutuality, existence & direction and an acknowledgement of others
  - Presence, warmth & love and independent imagination of others
  - Agileness, abruptness & love and independent imagination of others
57. "If the mind, so heavily burdened, resolve completely, not only its conditioning, but also its fears"? said by
- Maria Montessori
  - Friedrich Froebel
  - Sri Aurobindo ghosh
  - Jiddu Krishnamurti
58. The human activity, among the following, which causes maximum environmental pollution having regional and global impact, is
- Industrialisation
  - Urbanization
  - transportation
  - Mining
59. Arrange the following steps in order for curriculum development
- Developing a framework
  - Producing pilot units
  - Installing and disseminating new units
  - Testing experimental units
  - Revising and consolidating
- b,d,e,a,c
  - a,c,d,b,e
  - b,c,e,a,d
  - d,a,b,c,e
60. The ideal of sustainable development was defined for the first time by the world commission on environment and development in the year
- 1985
  - 1986
  - 1987
  - 1988

61. The maximum average permissible noise levels during day time hours as per environment protection act in India is

- A. 30 DB
- B. 45 DB
- C. 50 DB
- D. 55DB

62. Which of the following is NOT a design dimension of curriculum?

- A. Sequence
- B. Continuity
- C. Frame
- D. Articulation

63. Minamata' disease is caused by

- A. Lead
- B. Arsinic
- C. Mercury
- D. Cadmium

64. It is an evaluative approach that blends the scientific, modernist and humanistic, and postmodernist.

- A. Norm reference test
- B. Action Research
- C. Criterian reference test
- D. Curriculum

65. Match the following

- Column A
- a. Metfessel Micheal
  - b. Stake
  - c. Eisner
  - d. Stuffle beam

- Column B
- i. Congruence Model
  - ii. 8 Steps Model
  - iii. CIPP Model
  - iv. Connoisseurship Model

- A. a-i,b-ii,c-iii,d-iv
- B. a-ii,b-iii,c-i,d-ii
- C. a-ii,b-i, c-iv,d-iii
- D. a-iv,b-iii,c-ii,d-i

66. The criticism most frequently leveled at school administration is that:

- A. They like praise
- B. They are too lazy
- C. They do not know teacher
- D. They fail to provide leadership

67. According to Fayol elements of administration are
- A. One
  - B. Three
  - C. Five
  - D. Seven
68. Micro planning is done in:
- A. Top Management
  - B. Middle Management
  - C. Lower Management
  - D. Middle and Lower Management
69. The goal of National Education policy-2020 is to achieve 100% Gross Enrolment Ratio in preschool to secondary level by the year:
- A. 2025
  - B. 2030
  - C. 2022
  - D. 2023
70. One of the following initiated the Bureaucratic approach in the field of administration
- A. F.W. Taylor
  - B. M.Weber
  - C. Mary Parker
  - D. Elton Mayo

PhD Education Entrance Test Answer Key 2021

Q.No	Correct Option (Answer)
1	D
2	D
3	D
4	A
5	C
6	C
7	D
8	B
9	A
10	D
11	B
12	C
13	C
14	B
15	C
16	C
17	A
18	B
19	A
20	C
21	B
22	A
23	D
24	B
25	B
26	C
27	B
28	D
29	B
30	A
31	A
32	D
33	D
34	B
35	A

36	C
37	D
38	D
39	A
40	B
41	D
42	B
43	A
44	A
45	D
46	C
47	C
48	A
49	A
50	C
51	D
52	B
53	B
54	D
55	C
56	B
57	D
58	A
59	A
60	C
61	B
62	C
63	C
64	D
65	C
66	D
67	C
68	D
69	B
70	B