

ENTRANCE TEST FOR Ph.D. PROGRAMME, 2023**EDUCATION**

Time : Three Hours

Maximum : 100 Marks

Part A*Answer all questions.**Each question carries 1 mark.*

Choose the correct answer from the choices given :

1. Research can be defined as :
 - (a) A solution oriented process.
 - (b) A process of collecting data and arriving at solutions.
 - (c) A process of arriving at the solution of a problem.
 - (d) A systematic process where activities are carried out scientifically to find solution to the problem.

2. Which among the following tools cannot be standardized ?
 - (a) Tests.
 - (b) Inventories.
 - (c) Questionnaire.
 - (d) Scales.

3. Which is the first step of research ?
 - (a) Review of related literature.
 - (b) Identification of problem.
 - (c) Defining the problem.
 - (d) Statement of the problem.

4. In an experimental research which variable is manipulated ?
 - (a) Continuous variable.
 - (b) Dependent variable.
 - (c) Independent variable.
 - (d) Intervening variable.

5. Both independent and dependent variables are _____ terms.
 - (a) Relative.
 - (b) Absolute.
 - (c) Discrete.
 - (d) Vague.

Turn over

6. Which among the following is/are a source of research problem ?

- (a) Review of related literature.
- (b) Theories.
- (c) Seminars.
- (d) All of the above.

7. The researcher has to select _____ for research.

- (a) Problem.
- (b) Variables.
- (c) Both (a) and (b).
- (d) Neither (a) nor (b).

8. Identify the correctly worded objective :

- (a) To compare environmental awareness of post graduate students.
- (b) To differentiate environmental awareness of post graduate students.
- (c) To compare environmental awareness of male and female post graduate students.
- (d) To compare mean scores of environmental awareness of male and female post graduate students.

9. Hypotheses are :

- (a) Solutions to the problem.
- (b) Tentative solution to the problem.
- (c) Fixed solutions to the problem.
- (d) Definite solution to the problem.

10. Hypothesis provides the basis for selecting :

- (a) Sample.
- (b) Statistical technique.
- (c) Method.
- (d) All of the above.

11. Sample is a representative portion of :

- (a) Universe.
- (b) Population.
- (c) Frame.
- (d) All the above.

12. Reliability is the property of :
- (a) Test. (b) Scores.
(c) Examiner. (d) Examinee.
13. Test items measure student's :
- (a) Ability. (b) Achievement.
(c) Personality. (d) All the above.
14. Which of the following is not a quality of test items ?
- (a) Relevance. (b) Comprehensible.
(c) Ambiguous. (d) Independent.
15. Which of the following is not a feature of objective type test item ?
- (a) Seeks very very short answers.
(b) Ensures objectivity.
(c) Focuses on critical thinking.
(d) No need for the skill of organization.
16. Measurement is significant in :
- (a) Education. (b) Psychology.
(c) Physical sciences. (d) All the above.
17. What is micro teaching ?
- (a) A teaching technique.
(b) A scaled down training technique.
(c) A teaching programme.
(d) A simulation technique.
18. Teaching skills are :
- (a) Observable. (b) Measurable.
(c) Trainable. (d) All the above.

Turn over

19. Cognitive domain of behaviour is related to human :
- (a) Thinking. (b) Feeling.
(c) Doing. (d) Both (a) and (b).
20. Identify the probability sampling strategy from among those given :
- (a) Convenient sampling. (b) Purposive sampling.
(c) Systematic sampling. (d) Quota sampling
21. Identify the null hypothesis from among those given :
- (a) There will be a positive relationship between individuals' intelligence and creativity.
(b) There will be a relationship between individuals' intelligence and creativity.
(c) There is no significant difference between the mean scores of individuals' intelligence and creativity.
(d) There will be a difference between individuals' intelligence and creativity.
22. Higher Education in India today suffers from :
- (a) Rigid separation of disciplines. (b) Limited teacher autonomy.
(c) Outdated curriculum. (d) All the above.
23. Expected deadline for all HEIs in India to be transformed to multidisciplinary institutions as per the National Education Policy 2020 is :
- (a) 2035. (b) 2040.
(c) 2045. (d) 2050.
24. Identify the full form of SWAYAM :
- (a) Students Web of Active Learners For Young Aspiring Minds.
(b) Study Webs of Active Learning for Young Aspiring Minds.
(c) Study Websites of Attractive Learning for Young Aspiring Minds.
(d) Student Web of Active Learners for Young Aspiring Minds.
25. 'Integrated Education' was propounded by :
- (a) Mahatma Gandhi. (b) Swami Vivekananda.
(c) Sri Aurobindo Ghosh. (d) Sri Jiddunath Krishnamurti.

26. 'Nothing can be taught to the child', was preached by Sri Aurobindo because :
- (a) Child is born a blank slate. (b) Knowledge is within oneself.
(c) Self interest is important. (d) Children need to learn by doing.
27. Satyagraha means :
- (a) Walking on the path of truth. (b) Truthfulness.
(c) Speaking the truth. (d) Clinging to truth.
28. To educate according to 'nature' means :
- (a) To teach in the midst of nature.
(b) To educate according to the natural laws of human development.
(c) To study natural laws and apply them to the educational process.
(d) All the above are correct.
29. Identify the Non-parametric tests from among the following :
- (a) T test. (b) F test.
(c) Man Whitney test (d) Pearson correlation.
30. The range of coefficient of correlation between two variables is :
- (a) 0 to + 1. (b) 0 to 1.
(c) + 1 to - 1. (d) 0 to - 1.
31. A researcher is studying the relationship between students' environmental awareness and naturalistic intelligence. This is an example of :
- (a) Experimental research. (b) Ethnographic research.
(c) Descriptive research. (d) Field experiment.
32. Punishment is :
- (a) A positive reinforcer. (b) A negative reinforcer.
(c) Not a reinforcer at all. (d) None of the above.
33. The Banking System of education was recognized by :
- (a) Paulo Freire. (b) Bertrand Russell.
(c) John Dewey. (d) J Krishnamurty.

Turn over

34. Which of the following level of teaching emphasizes on students Higher order Thinking skills ?
- (a) Memory level. (b) Understanding level.
(c) Reflective level. (d) Creative level.
35. Using 'initial statement' is a component skill of which of the following teaching skills :
- (a) Skill of Introducing a lesson. (b) Skill of Explaining a lesson.
(c) Skill of questioning. (d) Skill of recapitulating.
36. Identify the taxonomical category that belongs to psychomotor domain :
- (a) Remembering. (b) Creating.
(c) Valuing. (d) Naturalization.
37. Active participation of learners is ensured by which of the following methods :
- (a) Lecture method. (b) Project method.
(c) Historical method. (d) Demonstration method.
38. Identify the socially exceptional children :
- (a) Underprivileged children.
(b) Orthopedically handicapped children.
(c) Mentally retarded children.
(d) Emotionally deprived children.
39. Both face to face traditional classroom methods and e-learning are used together to create a hybrid teaching approach known as :
- (a) Blended learning. (b) Distance learning.
(c) Synchronous learning. (d) Asynchronous learning.
40. The second step in the 5 E model of instruction is :
- (a) Explore. (b) Engage.
(c) Elaborate. (d) Evaluate.
41. Identify the co-operative learning strategy/strategies :
- (a) Flipped classrooms. (b) Jigsaw learning.
(c) Fishbowl learning. (d) All the above.

42. Modern educationist believes in _____ aim of education.
- (a) Individual aim. (b) Social aim.
(c) Economic aim. (d) Multiple aim.
43. The different aspects of education is determined by :
- (a) Philosophy. (b) Psychology.
(c) Sociology. (d) Anthropology.
44. The branch of philosophy which deals with knowledge is called :
- (a) Epistemology. (b) Axiology.
(c) Metaphysics. (d) Sociology.
45. Which of the following is primary to learning ?
- (a) Thinking.
(b) Reflecting.
(c) Interacting with environment.
(d) Remaining confined to one's thought.
46. Memory traces are referred to as :
- (a) Engram. (b) Enogram.
(c) Ingram. (d) None of the above.
47. In thinking objects are manipulated :
- (a) Physically. (b) Mentally.
(c) Objectively. (d) Virtually.
48. Incubation in thinking means :
- (a) Sleeping.
(b) Brooding.
(c) Solving problems at the unconscious level.
(d) Heating.

Turn over

49. According to Kohlberg which of the following influences one's moral development :
- (a) Environment. (b) Parental influence.
(c) Intelligence. (d) Education.
50. Physical manipulation of objects is required in which of the following stages of development :
- (a) Sensory motor stage. (b) Enactive mode.
(c) Iconic stage. (d) Both (a) and (b).

(50 × 1 = 50 marks)

Part B

*Answer any ten questions.
Each question carries 5 marks.*

51. Learning is relatively permanent. Justify the statement.
52. Explain the test-retest method of reliability.
53. Citing examples explain the stratified random sampling method.
54. Write the topic appropriate for descriptive research and experimental research.
55. Justify the need of delimiting a research study.
56. Differentiate between face validity and content validity.
57. Construct hypotheses for the following objectives and name the type of hypotheses constructed :
- To compare the mean scores of mathematics of male and female students.
 - To study the correlation between stress and academic efficiency of students.
 - To study the influence of gender on achievement in mathematics.
58. What is type I and Type II error ?
59. Citing examples differentiate between ordinal scale and interval scale of measurement.
60. Write the steps of developing a likert type attitude scale.
61. What is focus group interview ?
62. Explain the four quadrants of SWAYAM.
63. Justify when one goes in for action research.
64. Importance of review of related literature.

(10 × 5 = 50 marks)