

**Ph.D. ENTRANCE TEST-2023****SUBJECT (HOME SCIENCE)  
(EXTENSION AND COMMUNICATION)**

Total Questions: 100

Time Allowed : 110 Minutes

Roll No.

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**Instructions for Candidates**

1. Write your roll number in the space provided at the top of this page of question booklet and fill up the necessary information in the spaces provided on OMR Answer sheet.
2. OMR Answer sheet has an original copy and a candidate's copy glued beneath it at the top. While making entries in the original copy, candidate should ensure that the two copies are aligned properly so that the entries made in the original copy against each item are exactly copied in the candidate's copy.
3. All entries in the OMR answers sheet including answers to questions are to be recorded in the original copy only.
4. Use only blue/ black ball point pen to darken the circle of correct / most appropriate response. In no case gel/ ink pen or pencil should be used.
5. **Do not darken more the one circle of option for any question. A question with more than one darkened response shall be considered wrong.**
6. **There will be no "Negative Marking" for wrong answers.**
7. Only those candidates who would obtain positive score in entrance test examination shall be eligible for admission
8. Do not make any stray mark on the OMR sheet
9. Calculators and mobiles shall not be permitted inside the examination hall
10. Rough work, if any, should be done on the blank sheets provided with the question booklet.
11. OMR answer sheet must be handled carefully and it should not be folded or mutilated in such case it will not be evaluated.
12. Ensure that your OMR Answer sheet has been signed by the invigilator and the candidate himself/herself.
13. At the end of the examination hand over the OMR answer sheet to the invigilator who will first tear off the original OMR sheet in presence of the candidate and hand over the candidate's copy to the candidate.
14. If any of the information in the response sheet/question paper has been found missing or not mentioned as stated above the candidate is solely responsible for that lapse.

**SEAL**



**Part I (General Aptitude 2023)**

1. Tariq wants to sell a watch at a profit of 20%. He bought it at 10% less and sold it at ₹ 30 less, but still he gained 20%. The cost price of watch is.....  
A. ₹ 250  
B. ₹ 225  
C. ₹ 240  
D. ₹ 220
2. If today is Sunday then three days from now will be....  
A. Saturday  
B. Friday  
C. Thursday  
D. Wednesday
3. Absar is brother of Mehdi. Iqra is sister of Gulshan. Mehdi is son of Iqra. How is Absar related to Iqra?  
A. Son  
B. Brother  
C. Nephew  
D. Father
4. Ankit can do a piece of work in 6 days and Basharat in 9 days. How many days will both take together to complete the work?  
A. 7.5 days  
B. 5.4 days  
C. 3.6 days  
D. 3 days
5. The book "To Hell and Back: Humans of COVID" is authored by?  
A. Kavitha Iyer  
B. Jhumpa Lahiri  
C. Barkha Dutt  
D. Arundhati Roy
6. If PARTICLE is coded RCTVKENG, then how is SCIENCE coded?  
A. TBJUOMF  
B. TDJFODF  
C. UEKGPEG  
D. QBSUDMF
7. Where is the headquarter of the United Nations Environment Programme (UNEP) located?  
A. Nairobi, Kenya  
B. Venice, Italy  
C. Munich, Germany  
D. Geneva, Switzerland
8. Two years ago, Jane's age was three times Sam's age. If Jane is now 18, how old is Sam?  
A. 6 years  
B. 8 years  
C. 10 years  
D. 12 years
9. If WORK is coded as 4-12-9-16, then how will WOMAN be coded?  
A. 4-12-14-26-13  
B. 4-26-14-13-12  
C. 23-12-26-14-13  
D. 123-15-13-1-14
10. Which of the following states is not included in the sixth schedule of Indian Constitution?  
A. Meghalaya  
B. Tripura  
C. Mizoram  
D. Manipur



11. Letter : Word

- A. Homework : School
- B. Club : People
- C. Product : Factory
- D. Page : Book

12. The speed of a bus is 54 km/h if we don't let it stop at any point. If the bus stops at the bus-stops, the speed of the bus is 45 km/h. What is the time that the bus stops for per hour?

- A. 7 mins
- B. 10 mins
- C. 21 mins
- D. 22 mins

13. Blood does not coagulate inside the body due to the presence of \_\_\_\_\_?

- A. Fibrin
- B. Haemoglobin
- C. Heparin
- D. Plasma

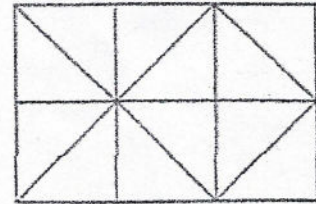
14. If a triangle has angles measuring 30 degrees, 60 degrees, and 90 degrees, what type of triangle is it?

- A. Equilateral
- B. Isosceles
- C. Scalene
- D. Right-angled

15. The ..... of the Minister's statement cannot be verified by people who have no access to official records.

- A. veracity
- B. verbosity
- C. ambiguity
- D. validity

16. The number of squares in the given figure is.....



- A. 7
- B. 8
- C. 9
- D. 10

17. What is the percentage of profit if the cost price is 95% of the selling price?

- A. 5%
- B. 5.26%
- C. 4%
- D. 4.75%

18. If you start facing east and turn 135 degrees clockwise, which direction are you facing now?

- A. North
- B. West
- C. North-East
- D. South-East

19. Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY) has been extended till which year recently?

- A. 2025
- B. 2028
- C. 2030
- D. 2032

20. Who is the present chairman of ISRO?

- A. Sh. Heeralal Samariya
- B. Sh. Harsh Chouhan
- C. Sh. Ravneet Kaur
- D. Sh. S Somanath

## Ph. D Entrance Test

### Home Science (Extension & Communication)

#### PAPER II

21. A statement of situation, objectives, problems, and solution is known as
- a) Extension Program
  - b) Evaluation
  - c) Plan of Work
  - d) Calendar of Work
22. Which of the following is a leading female entrepreneur running a multi-brand omnichannel beauty-focused retail business named NYKAA
- a) Kiran Mazumdar
  - b) Falguni Nayar
  - c) Vandana Luthra
  - d) Roshni Nadar
23. CEDAW is an acronym for:
- a) Convention on the Elimination of All Forms of Discrimination Against Women
  - b) Convention on Elimination of Discrimination Against Women
  - c) Convention on Elimination of Discrimination of Widows
  - d) Convention on Education, Development and Advancement of Women
24. "Triple burden" in the context of gender and development refers to:
- a) The burden of household chores, paid work, and societal expectations faced by women
  - b) The burden of financial responsibilities, family expectations, and career aspirations faced by men
  - c) The burden of educational attainment, gender roles, and social stigma faced by children
  - d) None of the above



25. Which of the following is a Report of Progress on Sustainable Development Goals so far?

- a) Men, Women and World So Far-2023
- b) Gender Snapshot 2023
- c) Bridging the Gender -2023
- d) SDG Progress 2023

26. The gender pay gap is a result of:

- a) Discrimination based on gender in the workplace
- b) inequalities in educational qualification
- c) Both
- d) None of the above

27. The Sustainable Development Goal (SDG) related to gender equality is:

- a) SDG 2
- b) SDG 5
- c) SDG 7
- d) SDG 4

28. The "glass ceiling" is a term used to describe:

- a) Invisible barriers that prevent women from rising to top positions in organizations
- b) Equal opportunities for career advancement for both genders
- c) The physical barrier to entry for women in certain professions
- d) None of the above

29. According to research, synthetic food colors are known to be associated with:

- a) Organ damage in adults
- b) Hyperactivity in children
- c) Both a and b.
- d) None of these

30. Which of the following are time related PRA tools?

- a) Seasonal Diagram and Trend Analysis
- b) Timeline
- c) Both a and b
- d) None of these

31. Which of the following is non-probability sampling?
- a) Quota Sampling
  - b) Cluster Sampling
  - c) Systematic Sampling
  - d) Stratified Random Sampling
32. Which one among the following statements is false in the context of participatory research
- a) It recognises knowledge as power
  - b) It is a collective process of enquiry
  - c) Its sole purpose is production of knowledge
  - d) It emphasises people as experts
33. Hypothesis is required for which type of research?
- a) Experimental Research
  - b) Exploratory Research
  - c) Descriptive Research
  - d) Co-relational Research
34. Which agency executes extension system in India?
- a) Indian Council of Agricultural Research
  - b) State Agricultural Universities
  - c) Central Agricultural University
  - d) Both a and b
35. The 73 and 74 Constitutional Amendment rolled out the following:
- a) Setting up and devolution of powers to Urban local bodies (ULBs) or city governments as the lowest unit of governance in cities and towns.
  - b) Reservation of one-third of seats for women in Panchayati Raj institutions and offices of the chairperson at all levels of Panchayati Raj institutions.
  - c) Both a and b.
  - d) None of these



36. What refers to 'post broadcast media'?

- a) Social Media
- b) Print Media
- c) Electronic Media
- d) Folk Media

37. Which of the following is not a physical barrier to communication?

- a) Verbalism
- b) Distance
- c) Ill Health
- d) Invisibility

38. ICT Application in research is most useful for which if the following reasons?

- a) For reducing cost of research
- b) For academic establishment
- c) For promoting dialogic interactions
- d) For enhancing scope of accessibility of research data

39. In which type of Organizational Communication, messages flow from Superior to subordinates

- a) Upward
- b) Downward
- c) Horizontal
- d) External

40. Edgar Dale is recognized with

- a) Demonstration
- b) Cone of Experience
- c) Field Day
- d) Exhibition

41. A short series of lectures by 5-7 experts on sub topics of a main topic is called

- a) Seminar
- b) Workshop
- c) Symposium
- d) Conference

42. Measurement in Equal appearing interval scale is at

- a) Interval level
- e) b) Ratio level
- f) c) Ordinal level
- g) Nominal level

43. Organization Development does not include

- a) Change Management
- b) Team building
- c) Quality of work life
- d) Centralized management

44. Treatment refers to the way of handling of

- a) Message
- b) Receiver
- c) Channel
- d) Communicator

45. Nature of learners in Extension Education is

- a) Homogenous
- b) Heterogenous
- c) Cosmopolite
- d) Localite



46. The first step in Extension programme planning is

- a) Setting objectives
- b) Collection of facts
- c) Analysis of situation
- d) Identification of problems

47. Which of the following program is responsible for green revolution

- a) HYVP
- b) IAAP
- c) WDP
- d) IRDP

48. The social relationships are direct, face to face and informal in

- a) Primary group
- b) Secondary group
- c) Voluntary group
- d) Congregate group

49. One of the following is not a PRA technique

- a) Transect walk
- b) Resource mapping
- c) Venn diagram
- d) Mind Mapping

50. SGSY is a program for promotion of

- a) Infrastructure Community
- b) Wage employment
- c) Community development
- d) Self-employment

**Ph. D Entrance Test**  
**Home Science (Extension and Communication)**

**Paper III**

51. Children with disabilities are addressed through SEN, which means:

- a. Special Education Needs
- b. Social Education and Nurturing
- c. Societal Engagement and Nurture
- d. Special Educational Need

52. Which type of disorder is dyslexia?

- a) Reading Disorder
- b) Calculating Disorder
- c) Mental Disorder
- d) None of the above

53. Continuous variables are depicted by:

- a) Histogram
- b) Bar Diagram
- c) Pie Chart
- d) Line Diagram

54. Which one is a non-parametric test?

- a) Chi-square test
- b) t-test
- c) Z-test
- d) All the above



55. Arrange the following human needs in hierarchy of their increasing importance

- Insurance from accidents
- Recognition and respect from others
- Food and shelter arrangement
- Accomplishing distinction in chosen area by maximising potential
- Developing meaningful relations with others

Choose the correct options from below

- a) a,c,e,b,d
- b) c,a,b,e,d
- c) a,c,e,d,b
- d) c,a,e,b,d

56. Which of the following statistical tests is used to determine if there is a significant relationship between two variables?

- a) T-test
- b) ANOVA
- c) Correlation coefficient
- d) Chi-square

57. Which of the following is an example of a nominal level of measurement?

- a) Age
- b) Weight
- c) Gender
- d) Income

58. What is the lowest level of Maslows hierarchy?

- a) Safety Needs
- b) Esteem Needs
- c) Self-Actualisation Needs
- d) Physiological needs

59. Maslow considered Physiological needs, safety needs and belongingness needs as

- a) Esteem Needs
- b) Growth Needs
- c) Aesthetic Needs
- d) Deficiency Needs

60. For children with special needs, assessment is most likely to be on the basis of:

- a) Strictly quantitative measures
- b) Identifying students weakness and limitations
- c) Qualitative, holistic assessments that consider individual progress and strengths
- d) Rigid Grading Systems

61. UNICEF strives to work for children and adolescents' welfare to save their lives and defend their rights. This UN organisation works on this theme in how many countries?

- a) 200
- b) 190
- c) 100
- d) 153

62. Seeing the way men behave in society and dress in a particular fashion, Abdullah, aged 10, refuses to partake as a mother in a school play for he would have to wear a sari. This shows:

- a) Gender role flexibility
- b) Gender typing
- c) Gender mobility
- d) None of these



63. A gender-sensitive pedagogy in Science entails:

- a. addressing gender stereotypes represented in curriculum
  - b. giving more opportunities to girls to participate in science activities
  - c. using gender sensitive language in classroom interaction
  - d. assigning gender-based tasks to students
- a) Both a and c.
  - b) a, b, c
  - c) a, d, c
  - d) a and d

64. What among the following could be the best antonym for Gender Sensitivity?

- a) Gender Analysis
- b) Gender Equality
- c) Gender Parity
- d) Gender Blindness

65. A formal and systematic modification of behaviour through learning is

- a) Education
- b) Training
- c) Instruction
- d) None of the above

66. Personnel Management is a

- a) Point of View
- b) Technique of thinking
- c) Philosophy of Management
- d) All of the above

67. The following is a vertical expansion of job

- a) Job enrichment
- b) Job rotation

- c) Management by Objectives
- d) All of the above

68. The following training enables trainees to take up a wide variety of tasks within his field of specialisation

- a) Apprenticeship
- b) Demonstration
- c) On-the-job-training
- d) All the above

69. Demonstration is a method used to train:

- a) Workers
- b) Supervisors
- c) Managers
- d) All of these

70. Training refers to imparting

- a) General Skills
- b) Overall Skills
- c) Specific Skills
- d) Important Skills

71. Evaluation gives insights for

- a) Reviewing
- b) Adjusting
- c) Revising goals
- d) All of the above



72. Communication through gestures and facial expressions is called?

- a. Vocal communication
- b. Non vocal communication
- c. Non-verbal communication
- d. Distance communication

73. Communication between two or more than two persons is called?

- a. Vertical communication
- b. Horizontal communication
- c. Intra-personal communication
- d. Inter- personal communication

74. Which one of the following is not considered as plagiarism?

- a) Not providing a reference when you have used somebody's idea taking idea only from another writer's work
- b) Copying a few sentences from an article on the internet without giving a reference.
- c) Taking a paragraph from a classmate's essay without giving a reference.
- d) Presenting the results of your own research.

75. Paraphrasing involves

- a) Changing vocabulary
- b) Changing word class
- c) Changing word order
- d) All above

76. Abstract includes:

- a) Background and methods
- b) Background, methods and results
- c) Background, methods, results and conclusions
- d) Background, methods, results, conclusions, and summary

77. If a person or group helped you by giving advice, funding, mentorship, editorial assistance, or practical support, it's a good idea to give them a shout-out in the:

- a) Acknowledgements
- b) Bibliography
- c) Dedication
- d) Summary

78. T & V extension system was introduced in Punjab & Sindh respectively in which year?

- a) 1978 & 1979
- b) 1982 & 1983
- c) 1965 & 1966
- d) None of these

79. Which is an extension education principle?

- (a) Leadership
- (b) Classroom
- (c) Speaking and Writing
- (d) Gaining Skills

80. All type of objectives of rural youth programs in agricultural extension put stress on:

- a. How to do
- b. What to do
- c. Self-improvement
- d. 1 st and 3rd

81. According to philosophy of rural youth programs, the programs are:

- a. Political
- b. Non-political
- c. Non-Sectoral
- d. b and c

82. The adopters who are venturesome, daring, and the risk takers are called

- a. Innovators
- b. Early adopters



- c. Early majority
- d. Late majority

83. The Opinion leaders also called

- a. Innovators
- b. Early adopters
- c. Early majority
- d. Late majority

84. The adopters who are more traditional and remained stuck with the old practices are called

- a) Innovators
- b) Early adopters
- c) Early majority
- d) Laggards

85. Brainstorming is best for?

- a. Showing varying points of views
- b. Generating maximum ideas
- c. Comparing results
- d. Identifying the problems

86. Brainstorming is best for?

- a. Generating maximum ideas
- b. Showing varying points of views
- c. Comparing results
- d. Identifying the problems

87. Chronological style is generally used to write

- a. Methodology
- b. Introduction
- c. Review of literature
- d. Results and discussion

88. One of the following search engines is exclusively meant for scientific information.

- a. Google

- b. Yahoo
- c. Scopus
- d. Linked in

89. Which one of the following training methods comes under cognitive approach?

- a. Lecture
- b. Role playing
- c. Simulation
- d. Behaviour modelling

90. Which one of the following training methods comes under behavioural approach?

- a. Lecture
- b. Role playing
- c. Demonstration
- d. Behaviour modelling

91. Demonstration is a training method which comes under?

- a. Cognitive approach
- b. Behavioural approach
- c. Affective approach
- d. Bottom-up approach

92. Case study is a training method which comes under?

- a. Cognitive approach
- b. Behavioral approach
- c. Vertical approach
- d. Bottom-up approach



93. Which of these is a training technique for on-the-job development?

- a. Coaching
- b. Mentoring
- c. Job rotation
- d. All above

94. SPSS stands for?

- a. Statistical package for social sciences
- b. Statistical package for social scientists
- c. Social package for statistical sciences
- d. Scientific program for social sciences

95. A quantity which expresses that how much the members of a group differ from the mean value is referred to?

- a. Frequency
- b. Mean
- c. Standard deviation
- d. Variance

96. Which one of the following is inferential statistics?

- a. Frequency
- b. Standard deviation
- c. Mean
- d. t-test

97. Use of physical space in communication process is called?

- a. Proxemics
- b. Kinesics
- c. Chronemics

d. Haptics

98. The approach uses educational institutions which have technical knowledge and some research ability to provide extension services for rural people:

- (a) Participatory Extension Approach
- (b) General Agriculture Approach
- (c) Training and Visit Approach
- (d) The Educational Institutional Approach

99. If a person would nod his head, what form of communication would that be?

- a) Verbal Communication
- b) Non-Verbal Communication
- c) Visual Communication
- d) Distance Communication

100. Monitoring is also known as

- a) Evaluation
- b) Process Evaluation
- c) Impact Evaluation
- d) Performance Evaluation