

Ph. D. ENTRANCE TEST (PET) 2025

Signature of Invigilator

Roll.
No.

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Paper - II
Home Science

Maximum Marks: 50

No. Of Printed Pages: 8

Instruction for the Candidate:

1. This paper consists of **FIFTY (50)** multiple choice type questions. Each Question carries **ONE (1)** mark.
2. There is no Negative Marking for Wrong Answer.
3. A separate OMR Answer Sheet has been provided to answer questions. Your answers will be evaluated based on your response in the OMR Sheet only. No credit will be given for any answering made in question booklet.
4. Defective question booklet or OMR if noticed may immediately replace by the concerned invigilator.
5. Write roll number, subject code, booklet type, category and other information correctly in the OMR Sheet else your OMR Sheet will not be evaluated by machine.
6. Select most appropriate answer to the question and darken appropriate oval on the OMR answer sheet, with black / blue ball pen only. **DO NOT USE PENCIL** for darkening. In case of over writing on any answer, the same will be treated as invalid. Each question has exactly one correct answer and has four alternative responses (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.
Example: (A) ● (B) ● (C) ● (D) ● where (B) is correct response.
7. Rough Work is to be done in the end of this booklet.
8. If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Answer Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, such as change of response by scratching or using white fluid, you will render yourself liable to disqualification.
9. Calculators, Log tables any other calculating devices, mobiles, slide rule, text manuals etc are **NOT** allowed in the examination hall. If any of above is seized from the candidates during examination time; he/ she will be immediately debarred from the examination and corresponding disciplinary action will be initiated by the Center Supervisor as deemed fit.
10. **DO NOT FOLD** or **TEAR** OMR Answer sheet as machine will not be able to recognize torn or folded OMR Answer sheet.
11. **You have to return the OMR Answer Sheet to the invigilator at the end of the examination compulsorily** and must not carry it with you outside the Examination Hall. You are however, allowed to carry original question booklet on conclusion of examination.

Paper - II
Home Science

Note: This paper contains **FIFTY (50)** multiple-choice questions. Each Question carries **ONE (1)** mark.

- 01) What is the primary aim of basic research?
A) Solve specific real-world problems
B) Develop new commercial products
C) Expand knowledge and understanding of phenomena
D) Conduct market analysis
- 02) The chemical process through which simple, low-weight monomer units join end to end through covalent bonding to form a more complex, high-weight polymer is known as _____.
A) Mercerisation
B) Polymerisation
C) Acetylation
D) Monomerisation
- 03) The weakest inter-polymer forces of attraction that are present in all fibers.
A) Van der Waals Forces
B) Hydrogen bonds
C) Salt linkages
D) Covalent bonds
- 04) Which of the following best defines a hypothesis?
A) A proven theory
B) A testable statement predicting a relationship between variables
C) A summary of the literature
D) A list of research tools
- 05) Which philosopher believed that education is the *manifestation of perfection already in the child*?
A) Rousseau
B) Froebel
C) Swami Vivekananda
D) Skinner
- 06) What is the first crucial step in management?
A) Evaluation
B) Planning
C) Controlling
D) Organizing
- 07) Time Management is the tool for
A) Work Simplification
B) Energy Management
C) Money management
D) Home management
- 08) Negi, Murgi and Gavanti are the stitches used in _____ embroidery of India.
A) Phulkari
B) Kasida
C) Chamba
D) Kasuti
- 09) The cross sectional view of this fiber is circular in shape.
A) Polyester
B) Cellulose acetate
C) Hemp
D) Triangular nylon
- 10) In Interiors grouping of objects is a way to achieve
A) Rhythm
B) Harmony
C) Balance
D) Emphasis
- 11) In qualitative research, the concept of “reflexivity” requires that the researcher
A) Controls for all variables in the study
B) Maintains complete objectivity
C) Critically examines their positionality and its influence on knowledge production
D) Uses only validated instruments
- 12) Which one of the following is a non-probability sampling method?
A) Stratified random sampling
B) Cluster sampling
C) Simple random sampling
D) Convenience sampling
- 13) The correct sequence of the layers as seen in the cross-section of cotton fiber from innermost point to outer most layer.
1-lumen, 2- primary wall, 3-secondary wall, 4-cuticle
A) 1,2,3,4
B) 2,4,1,3
C) 1,3,2,4
D) 2,1,4,3
- 14) Denier of the skein of 100m of filament viscose yarn weighing 1.59g will be _____.
A) 143.1
B) 144.0
C) 143.5
D) 144.6

- 15) The term ‘gustation’ in sensory science refers to:
 A) Touch
 B) Taste
 C) Smell
 D) Sound
- 16) Which statements are correct?
 A) Blanching do not cause loss of vitamins and minerals.
 B) Steam blanching results in more nutrient leaching than hot water blanching.
 C) IQB technique improves nutrient retention.
 D) None of the above
- 17) In Bowlby’s theory, the internal working model refers to:
 A) Parenting techniques
 B) Cognitive development stages
 C) Mental representations of self and others in relationships
 D) Genetic basis of temperament
- 18) Which research approach is most appropriate for exploring lived experiences?
 A) Experimental research
 B) Phenomenological research
 C) Survey research
 D) analysis
- 19) What is the name of organelle which serves as a primary packaging area for molecules that will be distributed throughout the body?
 A) Mitochondria
 B) Plastids
 C) Golgi body
 D) Vacuole
- 20) How much amount of blood flows through kidney per minute?
 A) 1000 ml
 B) 1200 ml
 C) 1500 ml
 D) 1600 ml
- 21) Which of the following statements about Indian ECCE vision is accurate?
 A) Academic instruction must begin at age
 B) Focus is on child’s holistic development, play-based learning and contextual materials
 C) Children should be evaluated regularly for school readiness at age 3
 D) Preschool education must follow a uniform national curriculum in English
- 22) Which of the following concepts refers to a child’s understanding that objects continue to exist even when they cannot be seen, heard, or touched?
 A) Conservation
 B) Egocentrism
 C) Object permanence
 D) Classification
- 23) In the study of aging, “productive aging” emphasizes:
 A) Economic contributions made by older adults
 B) Institutionalization to reduce familial burden
 C) Lifelong physical and intellectual decline
 D) Active engagement in meaningful roles across domains (social, economic, civic)
- 24) In smart clothing the characteristics of electronic devices are usability, functionality, durability and _____.
 A) Comfort
 B) Fashion
 C) Safety
 D) Aesthetics
- 25) The sizing standard offered by British Standard Institution (BSI) inclusive of terms, definitions and body measurement procedures is
 A) BS EN 13402-1:2001
 B) BS EN 13402-2:2002
 C) BS EN 13402-2:2003
 D) BS EN 13402-4:2004
- 26) Which of the following amino acid has a hydroxyl group?
 A) Valine
 B) Leucine
 C) Alanine
 D) Threonine
- 27) Decision making is the _____ of management process.
 A) Heart
 B) Resource
 C) Value
 D) Goal

- 28) Scale and Proportion are
 A) Elements of interior design
 B) Principles of interior design
 C) Properties of colour
 D) Aims of Interior design
- 29) The main component of Poshan Abhiyan where Aanganwadi workers and supervisors are equipped with smart phones with a software is
 A) ICDS Common Application Server
 B) ICDS Computer Aided Software
 C) ICDS Common Application Software
 D) ICDS Computer Application Software
- 30) The term referring the name of a product, company or designer that has a distinctive image and perceived set of value associated with it
 A) Bill
 B) Brand
 C) Code
 D) Couture
- 31) In this type of research, the researcher has to use facts or information already available and analyse that to make a critical evaluation of the material.
 A) Conceptual research
 B) Experimental research
 C) Descriptive research
 D) Analytical research
- 32) When is the communication process complete?
 A) When the sender transmits the message
 B) When the message enters the channel
 C) When the message leaves the channel
 D) When the receiver understands the message
- 33) National literacy mission was started on
 A) 6th May 1985
 B) 10th May 1986
 C) 5th May 1988
 D) None of the above
- 34) Triticum Compactum is also known as _____.
 A) Hard wheat
 B) Durum wheat
 C) Soft wheat
 D) Semi soft wheat
- 35) Which day is celebrated as the National Consumers' Day?
 A) 25th September
 B) 24th October
 C) 24th December
 D) 25th March
- 36) Money income is received in the form of ____.
 A) Salary
 B) Satisfaction
 C) Investment
 D) Resources
- 37) Dominant Paradigm (Choose the odd one)-
 A) Growth Centered model leading to economic growth
 B) Increase in disparity and marginalization of weaker
 C) Social and environmental development
 D) Increase in GDP
- 38) Planned strategy for development communication approach is based on the idea of
 A) Individual channel
 B) Local people
 C) Team approach
 D) NGOs
- 39) Electron transport chain is located in the ____.
 A) Outer mitochondrial membrane
 B) Mitochondrial matrix
 C) Inner mitochondrial membrane
 D) Nucleus
- 40) Behavioural skills of a person includes
 A) Knowledge
 B) Attitude
 C) Skills
 D) All the above
- 41) Which government agency in India regulates food safety and standards?
 A) BIS
 B) FSSAI
 C) NABARD
 D) FPO
- 42) Which of the following is a primary colour?
 A) Purple
 B) Green
 C) Yellow
 D) Brown

- 43) Educational Games provides
- A) emotional development
 - B) Physical fitness
 - C) Psychomotor development
 - D) All the above
- 44) The Times of India is published by –
- A) Benett, Coleman & Co. Ltd.
 - B) HT media Ltd.
 - C) Agarwal group
 - D) Dainik group
- 45) Which of the following statement about the nominal measurement scale is false?
- A) The nominal scale is used for measuring qualitative variables
 - B) Variables measured on the nominal scale are only related to naming
 - C) There is no measure of distance between the values of variables measured on the nominal scale
 - D) In case of variables measured on the nominal scale, the differences in the numbers represent real differences in the variable
- 46) What indicates a colour's brightness and dullness?
- A) Hue
 - B) Value
 - C) Shade
 - D) Intensity
- 47) A Non-profit body promoted by Doordarshan for Public Service Communication is-
- A) Lok Seva Sanchar Parishad
 - B) Rashtriya Seva Sanchar Parishad
 - C) Nagrik Seva Sanchar Samiti
 - D) None of above
- 48) PIB stands for.....
- A) Personal Information Bureau
 - B) Press Institute of Bombay
 - C) Public Information Bureau
 - D) Press Information Bureau
- 49) The key enzyme in fatty acid synthesis is
- A) Enoyl reductase
 - B) Acetyl transacyclase
 - C) Acetyl-CoA carboxylase
 - D) Phosphofructokinase
- 50) Human Development Index is a composite of
- A) Income, trade and investment indicator
 - B) Poverty, human rights and unemployment indicators
 - C) Income, health and education indicators
 - D) Health, education and quality of life indicator
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Rough Work: