

ENTRANCE TEST - 2025
School of Applied Sciences & Technology
Home Science

Total Questions: 60**Roll No.**

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Time Allowed: 70 Minutes**Important Instructions for Candidates:**

1. Candidates shall compulsorily use only **blue/ black ball point pen**. In no case gel/ink pen or pencil should be used.
2. Compulsorily write your **roll number** in the space provided at the top of this page of the question booklet.
3. Fill up the necessary information in the spaces provided on OMR Answer sheet including **Question Booklet Number** and **Question Booklet Series**.
4. 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.
5. All entries in the OMR Answer Sheet, including answers to questions, are to be recorded in the Original Copy only.
6. **Choose only one correct/most appropriate response** for each question among the options A, B, C and D and darken the circle of the appropriate response completely. Incompletely darkened circle is not correctly read by the OMR scanner and no complaint to this effect shall be entertained.
7. **Do not darken more the one circle of option for any question. A question with more than one darkened response shall be considered wrong.**
8. **There will be negative marking for wrong answers. Each wrong answer will lead to deduction of 0.25 marks per wrong answer from the score.**
9. Only those candidates who obtain positive score in Entrance Test shall be eligible for admission.
10. Do not make any stray mark on the OMR sheet as this may lead to errors while scanning.
11. OMR answer sheet must be handled carefully and it should not be folded or mutilated, as in such case it will not be properly evaluated by the machine.
12. No Electronic gadgets including calculators, mobiles, smart watches, blue tooth etc. shall be permitted inside the examination hall.
13. Rough work, if any, should be done on the blank sheets provided with the question booklet.
14. Ensure that the OMR Sheet is signed by the Examinee as well as by the invigilator.
15. At the end of the examination, fold the OMR Sheet along the crease on the top and tear off the top strip to separate the Original OMR Sheet from the Duplicate Copy.
16. Hand over the Original OMR answer sheet to the invigilator and retain the candidate's copy of OMR, Question Booklet and Admit card for your reference.
17. 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.
18. Any deficiency on the OMR shall be the responsibility of the candidate himself/herself.

- Q1. Which principle states that different children develop at different rates?
- Principle of continuity
 - Principle of individual differences
 - Principle of sequentially
 - Principle of integration
- Q2. Which dimension of development includes changes in motor skills, brain structure, and hormonal influences?
- Cognitive development
 - Physical development
 - Moral development
 - Personality development
- Q3. Fetal Alcohol Syndrome (FAS) is characterized by:
- Facial abnormalities, growth deficits, and CNS damage
 - Extra digits and enlarged liver
 - Premature graying of hair
 - Hyperactivity without physical defects
- Q4. In the Middle Ages, older children were seen as:
- Infants
 - Innocent
 - Persons with identities of their own
 - Small adults
- Q5. These tests present a series of relatively ambiguous stimuli, which are designed to elicit unique responses that reflect the examinee's emotions, thoughts, needs, conflicts and personality characteristics, which test is this?
- Socio-metric tests
 - Observation
 - Projective tests
 - Interview
- Q6. The disadvantage of employing Naturalistic Observation is:
- Controlled situation can be artificial.
 - Lack of control
 - Cannot measure attitudes or other nonbehavioral phenomena
 - Provides good description of behavior
- Q7. In case study, one can have:
- An in-depth study of a culture or subculture
 - Findings of positive or negative relationship between variables
 - An in-depth study of a single individual
 - Findings, especially when derived from lab experiments
- Q8. Which psychometric test is used to identify strengths and weaknesses in cognitive functioning and to inform educational and intervention planning?
- Otis-Lennon School Ability Test
 - Wechsler Intelligence Scale for children
 - Big Five Personality Test
 - Minnesota Multiphasic Personality Inventory
- Q9. According to Miss Grace Owing, which of the following is NOT mentioned as one of the seven objectives of pre-primary schools?
- To provide healthy environment to the children like space, fresh air, light and sun shine
 - To provide continuous medical supervision
 - To prepare children primarily for academic achievement in primary school
 - To establish real unity between external environment and home life

Q10. According to Rousseau's educational philosophy, what is his primary recommendation for teaching children?

- a) Using detailed verbal explanations and descriptions
- b) Teaching by doing and using activities rather than words
- c) Having children memorize important information
- d) Providing strict direction and constant guidance

Q11. What did Friedrich Froebel consider as the foundation of his kindergarten educational philosophy?

- a) Verbal instruction and memorization
- b) Play as self-active representation of inner necessity
- c) Isolation from society to develop individual skills
- d) Strict discipline and obedience

Q12. According to Maria Montessori, what is the primary source of motivation for a child's learning?

- a) External rewards and recognition
- b) Fear of punishment or discipline
- c) The satisfaction derived from the work itself
- d) Competition with other children

Q13. Which of the following is a key determinant of parenting behavior?

- a) The parent's level of education and socioeconomic status
- b) The child's extracurricular activity preferences
- c) The proximity of the nearest shopping mall
- d) The family's preferred type of cuisine

Q14. Which of the following best describes a key characteristic of the mother's role in child development?

- a) Providing discipline and encouraging independence in the child
- b) Serving as the primary model for male behavior and social status
- c) Offering tenderness, emotional security, and physical care, especially in early childhood
- d) Focusing mainly on teaching practical skills like household repairs

Q15. How do parents primarily influence the development of a child's self-concept?

- a) By providing financial support and material resources to the child
- b) Through their treatment—positive or negative—which shapes the child's self-perception and confidence
- c) By enrolling the child in extracurricular activities to build social skills
- d) By allowing the child to make all decisions independently without guidance

Q16. A place with a collection of toys and resource materials selected specially for supporting children's development is a:

- a) Mall
- b) Parents' Corner
- c) Toy Library
- d) Parent Library

Q17. This type of child-rearing style is considered to be the best style amongst the 4 styles, which is it?

- a) Authoritative Style
- b) Permissive Style
- c) Uninvolved Style
- d) Authoritarian Style

- Q18. Which theory suggests that people move through life surrounded by concentric circles of intimate relationships on which they rely for assistance, well-being and social support?
- Physical Exchange Theory
 - Social Convoy Theory
 - Attachment Theory
 - Emotion Relations Theory
- Q19. Which type of memory declines with age?
- Sensory Memory
 - Working Memory
 - Semantic Memory
 - Procedural Memory
- Q20. Which stage of grief is usually considered the third stage of grief as per Kübler-Ross Model?
- Anger
 - Bargaining
 - Acceptance
 - Denial
- Q21. Which vitamin deficiency causes beriberi?
- Vitamin B1
 - Vitamin B6
 - Vitamin B12
 - Vitamin C
- Q22. How much energy is provided by 1g of carbohydrate?
- 4 kcal
 - 7 kcal
 - 9 kcal
 - 2 kcal
- Q23. Which form of benzoic acid is commonly used as a food preservative?
- Benzoate
 - Sodium benzoate
 - Potassium benzoate
 - Calcium benzoate
- Q24. Food allergies primarily affect food choice by:
- Increasing food variety
 - Influencing cultural food habits
 - Restricting consumption of certain foods
 - Encouraging fast food consumption
- Q25. Which part of the heart initiates the heartbeat?
- Atrioventricular node (AV node)
 - Sinoatrial node (SA node)
 - Bundle of His
 - Purkinje fibers
- Q26. During inspiration, the diaphragm:
- Contracts and moves downwards
 - Relaxes and moves upwards
 - Contracts and moves upwards
 - Relaxes and moves downwards
- Q27. The enzyme pepsinogen secreted by the stomach is activated into pepsin by:
- Trypsin
 - Hydrochloric acid
 - Bile salts
 - Amylase
- Q28. Which of the following hormones are directly affected by GnRH?
- Testosterone and estrogen
 - FSH and LH
 - Progesterone and prolactin
 - TSH and ACTH

- Q29. Which is the primary protein found in cow's milk?
- Albumin
 - Casein
 - Gelatin
 - Collagen
- Q30. Which of the following conditions can cause protein denaturation?
- Heat
 - Changes in PH
 - Exposure to salts
 - All of these
- Q31. Which component of egg is primarily responsible for its emulsifying properties?
- Egg white protein
 - Egg yolk lecithin
 - Albumin
 - None
- Q32. Astringency is best described as a sensation of:
- A sour taste caused by acidity
 - A burning sensation
 - Sweetness of the tongue
 - A dry puckery sensation in the mouth
- Q33. Which nutrient is primarily responsible for proper development of neural tube in fetus?
- Vitamin A
 - Folic acid
 - Calcium
 - Iron
- Q34. Energy intake during pregnancy typically needs to increase by approximately?
- 100-200 kcal
 - 300-400 kcal
 - 700-800 kcal
 - No increase is needed
- Q35. Which of the following is an indicator of chronic malnutrition in children?
- Obesity
 - Stunting
 - Anaemia
 - None of these
- Q36. Which nutrient deficiency is often associated with Pica?
- Vitamin C deficiency
 - Protein deficiency
 - Iron deficiency anaemia
 - Calcium deficiency
- Q37. Which clinical sign indicates irreversible damage in vitamin A deficiency?
- Night blindness
 - Bitot's spots
 - Keratomalacia
 - Conjunctival xerosis
- Q38. Body mass index is a part of which ABCD assessment?
- Anthropometric
 - Biochemical
 - Clinical
 - Dietary
- Q39. Poshan Abhiyan was launched in which year?
- 2015
 - 2018
 - 2020
 - 2012
- Q40. Which age group is most vulnerable to PEM?
- Adults aged 30-50
 - Adolescents
 - Children under 5 years of age
 - Elderly above 65 years

Q41. Which model of communication is known as S.M.C.R model?

- a) Aristotle model
- b) Leagns model
- c) Shannon and weaver model
- d) David Berlol

Q42. Which of the following is not a characteristic of good programme planning?

- a) It should be suitable for staff, planning groups and other individuals
- b) It should clearly state the important problems or needs
- c) It should not clearly reveal the situation on major subject
- d) All of the above

Q43. Which among the following consist of the principles of extension programme planning?

- a) Involves local people and their institutions
- b) It's an educational process
- c) Only a
- d) Both a and b

Q44. Which of the following is a primary function of communication?

- a) Confusion
- b) Entertainment
- c) Information sharing
- d) Imitation

Q 45. Extension programme planning is a?

- a) Decision making process
- b) Require advance thinking
- c) Both a and b
- d) None of the above

Q46. Which of the following is not a type of organizational communication?

- a) Downward communication
- b) Upward communication
- c) Cross communication
- d) Circular communication

Q47. Which of the following best describe downward communication in an organization?

- a) Communication between employee at the same organizational level
- b) Communication from subordinates to superiors
- c) Communication from management to employees
- d) Informal communication among peers

Q48. Which type of communication is also known as grapevine communication?

- a) Formal
- b) Informal
- c) Intrapersonal
- d) Interpersonal

Q.49. Which of the following is an example of a group contact in extension teaching?

- a) Office calls
- b) Personal letters
- c) Demonstration meetings
- d) Leaflets

Q.50 Which method falls under mass contacts in extension teaching?

- a) Telephone calls
- b) Leader training meetings
- c) Tours
- d) Radio

- Q 51. The protection of women from domestic violence act (PWDVA) was enacted in which year?
- 1995
 - 2001
 - 2005
 - 2010
- Q 52. UN Women body dedicated to gender equality and the empowerment of women, was established in?
- 2010
 - 2020
 - 2022
 - none of above
- Q 53. In which social structure male is the sole decision maker?
- Matriarchal
 - Patriarchal
 - Egalitarian
 - Communal
- Q 54. Indecent Representation of Women (Prohibition) Act, was enacted in which year?
- 1985
 - 1986
 - 1987
 - 1988
- Q 55 Which of the following best defines gender?
- The biological differences between males and females
 - The roles, behaviors and attributes that society considers appropriate for men and women
 - A person's physical anatomy
 - The chromosome pattern of an individual
- Q56. Purpose of involving people in programme planning is that the program is meant for?
- People
 - NGO
 - Govt.
 - None
- Q57. Programme planning model includes?
- Organization for planning
 - Execution of plan of work
 - Both a and b
 - None
- Q58. As per S. V. Supe, there are _____ steps in extension programme planning?
- Four
 - Five
 - Eight
 - Ten
- Q59. Importance of Extension programme planning consist of?
- To aid in the development of leadership
 - To ensure careful consideration of what is to be done
 - To avoid wastage of time and money and promote general efficiency
 - All of the above
- Q60. Evaluation should be done at?
- At each stage of the programme
 - During implementation of the programme
 - At the end of programme
 - All of the above

ENTRANCE TEST-2024**SCHOOL OF APPLIED SCIENCES AND TECHNOLOGY****HOME SCIENCE**

Question Booklet Series

A

Total Questions : 60

Time Allowed : 70 Minutes

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1. The word communication originates from the word "Communis" which means _____.
 (A) Community
 (B) Knowledge
 (C) Common
 (D) None of the above
2. The original model of communication given by Aristotle consists of _____ elements or ingredients.
 (A) 2
 (B) 3
 (C) 4
 (D) 5
3. The process of symbolising the idea or converting it into a message is known as _____.
 (A) Ideation
 (B) Encoding
 (C) Transmission
 (D) Receiving
4. Problems regarding the interpretation of meaning by the receiver as compared to the intended meaning of the sender is called as _____.
 (A) Technical problem
 (B) Semantic Problem
 (C) Influential Problem
 (D) Effectiveness Problem
5. Extension education is an applied science consisting of contents derived from :
 (A) Researches
 (B) Accumulated field experiences
 (C) Relevant principles from related sciences
 (D) All of the above
6. The idea of starting the 'Etawah Pilot Project' was conceived and born in _____.
 (A) 1932
 (B) 1947
 (C) 1958
 (D) 1960
7. Which of the following is not considered as Non-Projected Visual Aids ?
 (A) Chalk board
 (B) Flash card
 (C) Flip-chart
 (D) Films
8. Short series of lectures usually by two to five speakers each with different viewpoints is called as _____.
 (A) Symposium
 (B) Forum dialogue
 (C) Group interview
 (D) Debate discussion
9. Rate of metabolism on rest is known as :
 (A) SDA
 (B) BMR
 (C) Catabolism
 (D) Both (A) and (B)
10. Prevalence of anaemia in India among women is about _____.
 (A) 10%
 (B) 30%
 (C) 60%
 (D) 95%

11. Protein constitutes _____ of our body weight.
- 20%
 - 40%
 - 60%
 - 80%
12. Cheilosis is a symptom associated with the deficiency of _____.
- Thiamine
 - Niacin
 - Pyridoxin
 - Riboflavin
13. Which of the following are vulnerable to losses during cooking?
- Calcium
 - Vitamin C
 - Thiamine
 - Both (B) and (C)
14. Polished rice loses about _____ of vitamin B1.
- 10%
 - 20%
 - 70%
 - 100%
15. Which of the following is/are micronutrients?
- Fats
 - Proteins
 - Vitamins
 - All of the above
16. The new food guide that replaces the *Basic Food Groups Guide* is called :
- Exchange lists for weight reduction
 - Dietary guide for Indians
 - The Food Guide pyramid
 - Exchange list guide for meal planning
17. Which of the following is orderly, coherent and progressive besides referring to only qualitative changes?
- Growth
 - Development
 - Both
 - None
18. The goal of developmental changes includes :
- Self-realization
 - Achievement of genetic potential
 - Self actualization
 - All of the above
19. Which of the following is not a phylogenetic function of maturation?
- Swimming
 - Crawling
 - Walking
 - Sitting
20. Havighurst has referred to maturational readiness as _____.
- Hereditary potential
 - Development
 - Teachable moment
 - All of the above

21. During the 9 months before birth the individual normally grows from a microscopically small germ cell to an infant of approximately _____ pounds in weight.
- (A) 2
(B) 4
(C) 7
(D) 10
22. In case of the female reproductive cells, there are _____ preparatory processes and in case of men there are _____ preparatory processes.
- (A) 2, 3
(B) 3, 2
(C) 2, 2
(D) 3, 3
23. "Ambidextrous" is a term associated with :
- (A) Sexual development
(B) Cognitive learning
(C) Left and right handedness
(D) Stunting
24. Which of the following learning methods of emotional development means "learning by association" ?
- (A) Imitation
(B) Identification
(C) Training
(D) Conditioning
25. The freezing point of a solvent , _____ when a solute dissolves in it.
- (A) Depresses
(B) Increases
(C) Remains unchanged
(D) None of the above
26. _____ is the internal friction which tends to bring to rest portions of the fluids moving relative to one another.
- (A) Freezing point
(B) Osmotic point
(C) Viscosity
(D) All of the above
27. The opacity of an emulsion is determined by _____.
- (A) Droplet size
(B) Droplet concentration
(C) Difference in refractive indices of two phases
(D) All of the above
28. The bond formed through the sharing of one or more pairs of electrons between two atoms is known as _____.
- (A) Ionic bond
(B) Octet bond
(C) Covalent bond
(D) Non-covalent bond
29. Which instrument is most suitable to measure the internal diameter of a test tube ?
- (A) Metre rule
(B) Vernier callipers
(C) Measuring tape
(D) Screw gauge
30. The number of base units in SI are _____.
- (A) 3
(B) 6
(C) 7
(D) 9

31. The word "Science" is derived from the Latin word _____.
 (A) Scientific
 (B) Scientism
 (C) Scienca
 (D) Scientia
32. _____ calorimetry is conducted under constant pressure conditions whereas _____ calorimetry is conducted under constant volume conditions.
 (A) Bomb ; Calibration
 (B) Calibration ; Bomb
 (C) Coffee Cup ; Bomb
 (D) Bomb ; Bomb
33. Kilocalorie needs during pregnancy exceed normal requirements by approximately _____.
 (A) 100 kcal
 (B) 300 kcal
 (C) 900 kcal
 (D) 1200 kcal
34. Which one of the following can be considered as the best source of dietary iron ?
 (A) Liver
 (B) Lean meat
 (C) Spinach
 (D) Dried fruits
35. A normal infant triples its birth weight by the age of _____ months.
 (A) 5
 (B) 12
 (C) 20
 (D) 24
36. An infant's foetal/prenatal iron stores begin to diminish between _____.
 (A) 0-1 months
 (B) 1-2 months
 (C) 2-3 months
 (D) 4-6 months
37. _____ is the father of Phycology.
 (A) Hippocrates
 (B) S. P. Philip
 (C) Joseph Lister
 (D) F. E. Fritsch
38. _____ is the fusion of morphologically or physiologically dissimilar gametes.
 (A) Isogamy
 (B) Anisogamy
 (C) Oogamy
 (D) None of the above
39. The living differentiated cells, which have lost the capacity to divide, can regain the capacity of division under certain conditions. This phenomenon is termed as _____.
 (A) Differentiation
 (B) Dedifferentiation
 (C) Redifferentiation
 (D) Adifferentiation
40. _____ showed that the green substance (chlorophyll) is located in special bodies called chloroplasts.
 (A) Julius Von Sachs
 (B) T.W. Englemann
 (C) V. N. Cornelis
 (D) E. G. Emerson

41. The non-metric unit for measuring the sedimentation rate is called _____ unit.
- Pascal
 - Svedberg
 - Candella
 - None of the above
42. *Wuchereria* is responsible for causing _____. 47. _____ is an approach to plan and prepare the budget from scratch.
- Ringworm
 - Ascariasis
 - Amoebiasis
 - Filariasis
- Traditional Budgeting
 - Participative Budgeting
 - Negotiated Budgeting
 - Zero based budgeting
43. How similar is the DNA sequencing of any two random people ? 48. The budget which is usually produced first and drives each of the budgets that follow is called _____.
- 33.3%
 - 55.5%
 - 77.7%
 - 99.9%
- Cash budget
 - Sales budget
 - Master budget
 - Zero budget
44. The animals in which the body cavity is absent are called _____. 49. In the advanced countries of the world in the beginning of the 19 Century, the death rate ranged between _____ per thousand.
- Acoelomates
 - Coelomates
 - Pseudochoelomates
 - All of them
- 7-8
 - 10-15
 - 10-20
 - 35-50
45. Which of the following is considered as the Contingent function of money ? 50. The policy of minimum governmental interference in the economic affairs of the individual and society is called as _____.
- Distribution of national income
 - Equalization of marginal utility
 - Basis of credit system
 - All of the above
- Dirigisme
 - Capitalism
 - Georgism
 - Laissez-faire

51. The PURA model (Providing Urban Amenities in Rural Areas) focuses on which of the following connectivities?
- Economic
 - Electronic
 - Knowledge
 - All of the above
52. Which of the following is not considered as the responsibility of the consumer?
- To think independently
 - To be heard
 - To be an ethical consumer
 - To speak out
53. The study of the cultural, behavioural and sociological aspects of spatial distances between individuals is called _____.
- Proxemics
 - Kinesics
 - Para Language
 - None of the above
54. The use of _____ to add and convey meaning to your words is referred to as para-language.
- Volume
 - Tone
 - Voice
 - All of the above
55. _____ communication helps form the 'self' which includes many dimensions like physical, emotional and habits.
- Interpersonal
 - Intrapersonal
 - Informal
 - Personnel
56. In a/an _____ communication, the sender sends the message and does not wait for a response from the receiver in the conversation.
- Synchronous
 - Asynchronous
 - Both (A) and (B)
 - None of the above
57. Which of the following is **not** considered as a barrier in the Intercultural communication?
- Ethnocentric behaviour
 - Stereotyping
 - Cultural shock
 - Empathy
58. The _____ proposes the specific patterns and biases, an individual uses when forming impressions about people, situations, objects etc.
- Perceptual accentuation theory
 - Primacy-Recency theory
 - Implicit personality theory
 - Attribution theory
59. _____ is the ancient performance form of picture-story recitation, which involves sung narration accompanied by reference to painted banners, placards and music.
- Scroll
 - Cantastoria
 - Patachitra
 - All of the above
60. The _____ theory is based on the economic model of profits and losses.
- Equity Theory
 - Social Exchange Theory
 - Functional Theory
 - CMM (Coordinated Management of Meaning Theory)