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1. Which of the following is **not** a scale of numerical measurement?
A) Interval scale B) Nominal scale
C) Ordinal scale D) Ratio scale
2. The distribution which should be used in order to find out where certain scores rank relative to all others:
A) Frequency Polygon
B) Probability Distribution
C) Grouped Frequency Distribution
D) Cumulative Frequency Distribution
3. Power of statistical test of a mean depends on:
1. Particular H_1 that is assumed true if H_0 is false
2. Value of α chosen
3. Size of sample
4. Variability of the population under study
A) 1 & 2 only B) 1, 3 & 4 only C) 2 & 3 only D) 1, 2, 3 & 4
4. Arrange the following steps of Research in the correct sequence:
1. Review of Literature 2. Rationale 3. Objectives
4. Methodology 5. Interpretation 6. Results
A) 2, 3, 1, 4, 6, 5 B) 1, 2, 3, 4, 6, 5
C) 3, 2, 4, 1, 5, 6 D) 6, 5, 4, 1, 2, 3
5. Match the research design given in the List-I with their examples given in List-II:
List-I List-II
a. Experimental 1. Researcher collects data referring to past events
b. Longitudinal 2. Researcher observes individuals only once
c. Cross Sectional 3. Researcher investigates changes over a period of time
d. Retrospective 4. Researcher deliberately influences events and investigates the effect of intervention
A) a-4, b-3, c-2, d-1 B) a-2, b-1, c-3, d-4
C) a-2, b-1, c-4, d-3 D) a-4, b-3, c-1, d-2
6. When participants are studied repeatedly at different ages to identify common patterns as well as individual differences in development, it is called the '---- design.
A) Cross sectional B) Sequential
C) Longitudinal D) Microgenetic

7. The concrete operational stage is from:
 A) Birth – 2 years B) 7-11 years
 C) 2 – 7 years D) 11 – 15 years
8. An example of an X linked inheritance:
 A) Down syndrome B) Haemophilia
 C) Tay Sachs Disease D) Phenylketonuria
9. The rights of children came into force as an international law on
 A) 2nd September 1990 B) 5th September 1950
 C) 26th September 1989 D) 14th September 1947
10. Which of the following is **not** a memory strategy?
 A) Operation B) Rehearsal
 C) Organization D) Elaboration
11. The child's earliest type of play is:
 A) Dramatic or make believe B) Free and spontaneous
 C) Constructive play D) None of the above
12. Match the following facts with the terms related to prenatal development:
- | List I | List II |
|--|------------------|
| a. Organ formation | 1. Blastocyst |
| b. Outer layer of cells during germinal period | 2. Teratogens |
| c. Harmful agents causing birth defects | 3. Trophoblast |
| d. The inner layer of cells during germinal period | 4. Organogenesis |
- A) a-4, b-1, c-3, d-2 B) a -1, b-3, c-2, d-4
 C) a-4, b-1, c-2, d-3 D) a-1, b-4, c-3, d-2
13. Which of the following statements on child development is **not** true?
 A) Both infancy and early childhood are times of significant change in the brain
 B) First two months of pregnancy are critical for organogenesis
 C) Experts recommend that young children need 11 to 13 hours of sleep each night
 D) Language development is very rapid during adolescence
14. Which of the following statements regarding nature-nurture is true?
 A) Nurture refers to the environmental influences that shape behaviour
 B) Nature refers to traits, abilities and capacities that are inherited from one's parents
 C) Nature and nurture are two ends of the continuum, with particular behaviours falling somewhere between the ends
 D) All of the above are true

15. Ego-centrism means:
 A) Talking about others B) Talking for the sake of others
 C) Talking about oneself D) Development of clear speech
16. Father of theory of operant conditioning:
 A) B. F. Skinner B) Sigmund Freud
 C) Jean Piaget D) Ivan Petrovich Pavlov
17. Attitudes, feelings and interests are----- component.
 A) Cognitive B) Affective C) Temporal D) Physical
18. The components of intelligence are:
 1. Hardwork 2. Memory
 3. Imagination 4. Problem solving ability
- A) 1, 2 & 4 only B) 2, 3 & 4 only
 C) 1 & 3 only D) 1, 2, 3 & 4
19. Assertion (A): Height or length of children below the age of two years should be measured with an infantometer.
 Reason (R): An infantometer is used for children who cannot stand properly
- A) Both A and R are wrong
 B) Both A and R are correct
 C) A is correct but R is wrong
 D) A is wrong but R is correct
20. Arrange the developmental tasks during early childhood period sequentially:
 1. Learning to talk 2. Bladder control
 3. Learning to walk 4. Learning gender differences
 5. Distinguishing right and wrong 6. Getting ready to read
- A) 2, 1, 3, 5, 4, 6 B) 5, 2, 3, 6, 1, 4
 C) 3, 1, 2, 4, 6, 5 D) 1, 3, 4, 2, 6, 5
21. Level of IQ of an educable mentally challenged child:
 A) 0-25 B) 50-75 C) 25-100 D) 75-100
22. Assertion (A): Consistent sleep routines are advisable for all children right from birth
 Reason (R): It increases separation anxiety and deprives stimulation.
- A) Both A and R are correct
 B) Both A and R are wrong
 C) A is correct and R is wrong
 D) A is wrong R is correct

33. The "Garibi Hatao" slogan was coined by:
 A) Pt. Nehru
 B) Mahatma Gandhi
 C) R N Tagore
 D) Indira Gandhi
34. Sarvodaya Movement was started by:
 A) A.T. Mosher
 B) G.R. Gokhale
 C) Vinoba Bhave
 D) Sir Daniel Hamilton
35. Basic element at the core of extension education:
 A) Man himself
 B) Man and environment
 C) Institutions
 D) Farmers
36. The number of subordinates one has to supervise is called:
 A) Span of control
 B) Principle of Authority
 C) Principle of Communication
 D) Line of Authority
37. To keep a watch on what is happening:
 A) Supervision
 B) Monitoring
 C) Evaluation
 D) None of the above
38. When an external person, institution or development agency has done an evaluation work, it is called:
 A) Internal evaluation
 B) External evaluation
 C) Both A and B
 D) Neither A nor B
39. Assertion (A): All human communication has some source, either a person or a group of persons with a purpose.
 Reason (R): The purpose of the on source has to be expressed in the form of message.
- A) Both A and R are wrong B) A is correct, but R is wrong
 C) Both A and R are correct D) A is wrong, but R is correct
40. Assertion (A): Intrapersonal communication is important for self-reflection.
 Reason (R): Self-reflection is important for communicating with others.
- A) A is correct, but R is wrong
 B) Both A and R are correct
 C) A is wrong, but R is correct
 D) Both A and R are correct, but R is not the correct explanation of A

41. Match List – I with List – II:
- | | |
|--------------------|-----------------------------|
| List – I | List – II |
| a. David K. Berto | 1. Diffusion of innovations |
| b. Edgar Dale | 2. Communication Model |
| c. Rogers E.M. | 3. Rapid Rural Appraisal |
| d. Robert Chambers | 4. Cone of Experience |
- A) a-2, b-4, c-3, d-1 B) a-3, b-4, c-2, d-1
 C) a-2, b-1, c-3, d-4 D) a-2, b-4, c-1, d-3
42. The target group for National Literacy Mission:
- A) Below 15 years B) 35-44 years
 C) 15-35 years D) 15-65 years
43. ----- is an intense educational activity for motivating and mobilizing a community to action.
- A) Brainstorming B) Colloquium
 C) Campaign D) Symposium
44. The leader who clearly articulates the goal, the agenda and the expectations, providing the specific guidance to the group members is called:
- A) Directive leader B) Participative leader
 C) Supportive leader D) Achievement oriented leader
45. Sarva Shiksha Abhiyan (SSA) was launched for Universalization of:
- A) High School Education in Urban Areas
 B) Middle School Education in Rural area
 C) Non-formal Education
 D) Elementary Education
46. Assertion (A): Newspaper is a print media. It is one of the mass media.
 Reason (R): All mass media are print media
- A) Both A and R are correct B) A is correct, but R is wrong
 C) Both A and R are wrong D) A is wrong, but R is correct
47. Which of the following are presentation type visual aids?
1. Pamphlet 2. Flash card 3. Slides 4. Bulletin Board
- A) 1 & 2 only B) 2 & 3 only C) 3 & 4 only D) 1,2 & 4 only
48. Identify the vitamin used to develop golden rice:
- A) Beta – carotene B) Vitamin C
 C) Vitamin B D) Phylloquinone

49. The natural pigment, annatto is obtained from:
 A) Algae B) Turmeric C) Achiote D) Carrots
50. The toxic compound present in kesar dhal is:
 A) Mimosine B) Canavanine C) BOAA D) Indospicine
51. Pellagra is caused due to deficiency of:
 A) Riboflavin B) Niacin C) Cobalamine D) Thiamine
52. Save Grain Campaign was launched by Govt. of India during:
 A) 1967 – 68 B) 1968 – 69 C) 1969 – 70 D) 1970 - 71
53. The process represented by the symbol Radura:
 A) Pasteurisation B) Irradiation
 C) Canning D) Fortification
54. FSSAI stands for:
 A) Food Safety and Standards Authority of India
 B) Food Safety Standards Act of India
 C) Food Safety and Standard Authority of India
 D) Food Standard and Safety Act of India
55. The unit used to represent the requirement of Vitamin D in RDA, 2020:
 A) µg/day B) mg/day C) g/day D) IU/day
56. Select the order of basic five food group (ICMR 2011):
 1. Cereals, grains and products 2. Fats and sugars
 3. Pulses and Legumes 4. Milk and Meat Products
 5. Fruits and vegetables
 A) 1, 3, 4, 5, 2 B) 3, 1,5, 2, 4 C) 1, 5, 2, 4, 3 D) 3, 1, 4, 5, 2
57. The National Food Security Bill proposes food grain entitlements for upto ----- of the rural and ----- of the urban population.
 A) 85% , 40% B) 50%, 50% C) 75% , 50% D) 60% , 40%
58. Identify the anti-nutritional factor that cause agglutination of RBC's:
 A) Gossypol B) Hemagglutinins
 C) Thiaminases D) Goitrogens
59. Section of FFDCA which specifies provision on misbranding:
 A) Section 201 B) Section 702 (a)
 C) Section 408 D) Section 502

60. BHA Stands for:
- A) Butylated Hydroxyl Anisole
 - B) Butylated Hydroxy Anisole
 - C) Butylated Hydroxy Alanine
 - D) Butylated Hydroxyl Alanine
61. According to WHO, the weight at birth of an LBW baby will be -----.
- A) < 2500 grams
 - B) <1500 grams
 - C) < 2000 grams
 - D) <3000 grams
62. Identify the exact sequential order of sugar cookery:
- A) Thread - Soft ball – Firm ball – Hard ball – Hard crack – Soft crack – Caramel
 - B) Thread – Firm ball – Soft ball – Soft crack – Hard crack – Hard ball – Caramel
 - C) Thread – Soft ball – Firm ball – Hard ball – Soft crack – Hard Crack – Caramel
 - D) Thread – Firm ball – Soft crack – Soft ball – Hard crack – Hard ball – Caramel
63. The eating disorder where an individual repeatedly eats inedible item is referred to as:
- A) Bulimia nervosa
 - B) Anorexia nervosa
 - C) Binge eating
 - D) Pica
64. ----- appear as two small twisted ropes of thickened white one on each end of the yolk and anchor the yolk in the centre of the egg.
- A) Vitelline membrane
 - B) Chalaza
 - C) Germinal disc
 - D) Albumen
65. SGLT require----- to transport glucose across cell membranes.
- A) K
 - B) Ca
 - C) Na
 - D) Zn
66. Match the following:
- | | |
|-------------------|---------------------|
| List I | List II |
| a. Denaturation | 1. Moist heat |
| b. Gelatinisation | 2. Proteins |
| c. Dextrinization | 3. Free fatty acids |
| d. Rancidity | 4. Dry heat |
- A) a-2, b-1, c-4, d-3
 - B) a-1, b-2, c-3, d-4
 - C) a-3, b-1, c-4, d-2
 - D) a-1, b-2, c-4, d-3

67. CCCF stands for:
- A) Codex Committee and Commission in food
 - B) Codex Committee on Contaminants in food
 - C) Codex Committee on Contamination of food
 - D) Codex Commission on Contaminants of food
68. The species of yeast known as Baker's Yeast:
- A) *S. cerevisiae*
 - B) *S. carlsbergensis*
 - C) *S. boulardii*
 - D) *S. ellipsoideus*
69. Assertion (A) : Adequate calcium and phosphorous in the appropriate ratio of 1- 2: 1 in addition to magnesium and vitamin D is vital for bone health and development of infant.
Reason (R) : Bone mass accumulation in infancy is essential for the prevention of poor childhood growth and adult osteoporosis.
- A) A is wrong, but R is correct
 - B) A is correct, but R is wrong
 - C) A is correct, but R is not the correct explanation of A
 - D) A is correct and R is the correct explanation of A
70. According to WHO, an individual is said to be pre – obese if his/ her BMI falls between the range:
- A) 30.0 – 34.9
 - B) 25.0 – 29.9
 - C) 35.0 – 39.9
 - D) 23.0 – 28.9
71. Which of the following statements is/are **incorrect**?
1. Cereals are deficient in lysine and rich in methionine.
 2. Pulses are deficient in methionine and rich in lysine.
 3. Combination of cereals and pulses can improve protein quality.
 4. Combination of cereals and pulses may decrease protein quality.
- A) 1, 2 & 4 only
 - B) 3 only
 - C) 1,2 & 3 only
 - D) 4 only
72. Assertion (A) : Endocrine disorder can result in decrease in BMR.
Reason (R) : Deficiency of iodine results in hypothyroidism that may lead to decrease in BMR.
- A) A is wrong, but R is correct
 - B) A is correct, but R is wrong
 - C) Both A and R are correct
 - D) Both A and R are wrong
73. The first step in management process:
- A) Organizing
 - B) Controlling
 - C) Planning
 - D) Evaluating

74. Crux of management process:
A) Money B) Budget
C) Labour D) Decision making
75. The conscious seeking of simplest, easiest and quickest method of doing work:
A) Work triangle B) Work curve
C) Work simplification D) Work schedule
76. The lowest level in Ikebana:
A) Hikae B) Soe C) Jushi D) Shin
77. The line that can create an effect of flexibility and aesthetics in interior decoration:
A) Zig-zag B) Diagonal C) Vertical D) Curved
78. An example for instrumental value:
A) Love B) Efficiency
C) Ability to appreciate D) Honesty
79. Thin sheets of wood produced by slicing with a knife, by sawing or by rotary cutting:
A) Glazed wood B) Laminated wood
C) Layered wood D) Veneers
80. Entrance structure in Kerala architecture is called:
A) Nalukettu B) Padippura C) Malika D) Tharavaadu
81. Yellow, red purple and blue purple together constitute ---- colour harmony.
A) Analogous B) Direct complementary
C) Double complementary D) Split complementary
82. A simple device used for making time and motion study at home:
A) Cycle graph
B) Pathway chart
C) Micromotion film analysis
D) Body mechanics
83. Define time cost:
A) Actual time required for completing a work
B) Cost of time plan
C) Average time required for completing a work
D) Amount paid for part time service
84. Satisfaction derived from the use of real income:
A) Money income B) Imaginary income
C) Psychic income D) Income profile

85. Summarized statement of the assets and liabilities at the end of a year:
 A) Spread sheet B) Balance sheet
 C) Expenditure account D) Budget
86. The result obtained when one large object placed near the centre balances a smaller object at a greater distance from the centre is ----- balance.
 A) Symmetrical B) Asymmetrical
 C) Formal D) Bisymmetrical
87. Scientist who developed principles of motion economy:
 A) F.R. Gilberth B) Marvin Mundell
 C) Stephen Hawking D) Werner Heisenberg
88. Mixing equal quantity of primary and secondary colours results in---- colours.
 A) Bright B) Intermediate
 C) Warm D) Cool
89. Father of low-cost housing:
 A) Daniel Kevles B) Laurie Baker
 C) Ernst Haeckel D) Benjamin Banneker
90. Fatigue developed out of disease condition is ----- fatigue.
 A) Physiological B) Psychological
 C) Pathological D) Boredom
91. Work triangle shows the relationship of:
 A) Work, Worker, Work place
 B) Refrigerator, Stove, Sink
 C) Heaven, Man, Earth
 D) Time, Work, Productivity
92. An example for organic fertilizer:
 A) Fish amino acid B) Neem oil
 C) 18:18:18 D) Trichoderma
93. Design which deviates from natural elements:
 A) Naturalistic design B) Stylized design
 C) Historical design D) Traditional design
94. Objects arranged equal distance around a centre point:
 A) Emphasis
 B) Proportion
 C) Rhythm through gradation
 D) Radial balance

95. The colours harmony produced with colours which forms three corners of an equilateral triangle in a Prang's colour system is ----- colour harmony
A) Analogous B) Tetrads
C) Triad D) Split complimentary
96. Tackling a stain without washing the whole product:
A) Pin and string method B) Dry cleaning
C) Spring cleaning D) Spot cleaning
97. A pattern is developed by:
A) Addition of colour B) Addition of decoration
C) Repeating motifs D) Repeating textures
98. Primary properties of textile fibre:
1. High length to width ratio 2. Physical shape
3. Uniformity 4. Specific Gravity
A) 1 & 2 only B) 1 & 3 only C) 2 & 3 only D) 1 & 4 only
99. The longitudinal section of which fibre shows a plain glass rod like appearance under microscope?
1. Cotton 2. Silk 3. Nylon 4. Rayon
A) 1 & 2 only B) 2 & 3 only C) 3 & 4 only D) 2 only
100. Fibre which is an example for regenerated textile fibre:
A) Nylon B) Polyester C) Rayon D) Cotton
101. Retting is done to:
A) Rot away woody portions from the stalks of flax
B) Increase the weight of cotton fabric
C) Remove gummy substance from silk
D) Enhance the crimp in wool fibres
102. Identify the natural fibres:
A) Cotton, Linen, Nylon B) Silk, Wool, Cotton
C) Rayon, Polyester, Cotton D) Rayon, Silk, Linen
103. The process of converting fibre to yarn:
A) Blending B) Carding C) Spinning D) Roving
104. Arrange in correct sequence:
1. Combing 2. Sorting and blending 3. Carding 4. Spinning
A) 1, 3, 4, 2 B) 2, 4, 3, 1 C) 2, 3, 1, 4 D) 3, 1, 2, 4

105. Match the following:
- | | |
|-----------|------------------|
| List-I | List-II |
| a. Rayon | 1. Ring spinning |
| b. Cotton | 2. Melt spinning |
| c. Nylon | 3. Wet spinning |
- A) a-3, b-2, c-1 B) a-3, b-1, c-2
C) a-2, b-3, c-1 D) a-2, b-1, c-3
106. Which of the statement/s are true about rapier loom?
1. Production speed is 600 ppm
 2. Fancy fabrics can be produced
 3. Higher production cost than other shuttleless looms
 4. Only suitable for weaving of hydrophobic yarns
- A) 1 & 2 only B) 2 & 3 only C) 4 only D) 2 only
107. True bias direction is at ----angle to the selvedge.
- A) 30° B) 45° C) 90° D) 180°
108. Natural dyes from animal sources:
1. Tyrian Purple
 2. Lac
 3. Indigo
 4. Marigold
- A) 1 & 2 only B) 2 & 3 only C) 1 & 4 only D) 3 & 4 only
109. Dyeing done at fibre stage:
- A) Cross-dyeing B) Union-dyeing
C) Stock dyeing D) Piece dyeing
110. Textile finish that utilises vinyl resins and synthetic rubber:
- A) Water proofing B) Flame proofing
C) Anti-bacterial D) Schreinerizing
111. Chemical used for mercerization of cotton:
- A) HCl B) H₂SO₄ C) NaOH D) KOH
112. Product certification granted by an independent organisation with regard to particular standard:
- A) Brand names B) Quality marks
C) Registered Trademarks D) Eco-marks
113. Soaps are:
- A) Potassium salts of fatty acids
 - B) Calcium salts of fatty acids
 - C) Magnesium salts of fatty acids
 - D) Sodium salts of fatty acids

114. In the fashion cycle, the state at which people are **not** willing to buy the garment at regular price:
A) Introduction B) Rise in popularity
C) Decline in popularity D) Rejection
115. Outline of a person or object:
A) Line B) Form C) Shape D) Silhouette
116. A fashion designer should:
1. Sketch design 2. Select fabrics and patterns
3. Interact with customers occasionally 4. Look after the production line
A) 1, 2 & 3 only B) 1 & 2 only
C) 2 & 4 only D) 1, 3 & 4 only
117. An individual with stout figure should wear dress with:
A) Bright colours B) Shiny surface
C) Soft fabrics D) Horizontal lines
118. Which one among the following is **not** a psychological need of fashion?
A) Conformity B) Desire for variety
C) Expressing creativity D) Making profit
119. Which of the following has got feminine characteristics?
A) Straight line B) Curved line
C) Diagonal line D) Zig-zag line
120. Use of yellow and purple colour in a colour wheel makes ----- colour harmony.
A) Monochromatic B) Complementary
C) Double complementary D) Neutral
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