PREVIOUS YEAR PAPER

UP PGT 2021 — Home Science (Series A)

UP PGT · 17 or 18 August 2021

125 questions · +3.4 for a correct answer, −0 for a wrong one · 120 minutes

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Questions from the U.P. Secondary Education Services Selection Board's paper of 17 or 18 August 2021. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/up-pgt/previous-year-papers/up-pgt-2021-home-science-series-a/

Home Science

1. Which one is not a principle of design ?
   (a) Proportion
   (b) Emphasis
   (c) Space
   (d) Harmony
   Answer: (c)

2. Last step of extension teaching is
   (a) Attention
   (b) Satisfaction
   (c) Desire
   (d) Knowledge
   Answer: (b)

3. The digestive juice which converts undigested carbohydrates into disaccharides is
   (a) Amylase
   (b) Tripsin
   (c) Chymotripsin
   (d) Lipase
   Answer: (a)

4. Voluntary nervous system is also known as
   (a) Central nervous system
   (b) Peripheral nervous system
   (c) Sympathetic nervous system
   (d) Parasympathetic nervous system
   Answer: (a)

5. Which of the following is not a method to study Human Development ?
   (a) Experimental method
   (b) Case study method
   (c) Clinical method
   (d) Book method
   Answer: (d)

6. The persons suffering from high blood pressure should eat diet with
   (a) Low sodium chloride diet
   (b) Low protein diet
   (c) High fiber diet
   (d) High fat diet
   Answer: (a)

7. Contraction of blood vessels of skin is function of
   (a) Parasympathetic nervous system
   (b) Olfactory nerves
   (c) Sympathetic nervous system
   (d) Optic nerves
   Answer: (c)

8. For 1° F rise in temperature during fever, the basal metabolic rate increases by
   (a) 10%
   (b) 7%
   (c) 20%
   (d) 25%
   Answer: (b)

9. Phulkari is a famous embroidery of which State of India ?
   (a) Uttar Pradesh
   (b) Maharastra
   (c) West Bengal
   (d) Punjab
   Answer: (d)

10. Which is present in high amount in colostrum ?
   (a) Vitamin 'A'
   (b) Vitamin 'B'
   (c) Mineral
   (d) Iron
   Answer: (a)

11. In vital capacity of lungs how much is the amount of complementary air ?
    (a) 300 – 400 cubic cm
    (b) 1600 cubic cm
    (c) 600 cubic cm
    (d) 900 cubic cm
    Answer: (b)

12. A person breaths/minute
    (a) 72 times
    (b) 45 times
    (c) 18 times
    (d) 60 times
    Answer: (c)

13. The diameter of red blood cells is about
    (a) 2 cm
    (b) 7 micrometers
    (c) 15 micrometers
    (d) 1 cm
    Answer: (b)

14. Protein molecules present in cytoplasm known as
    (a) R. N. A.
    (b) D. N. A.
    (c) Amino acids
    (d) None of these
    Answer: (c)

15. Phrynoderma occurs due to deficiency of which nutrient ?
    (a) Calcium
    (b) Essential fatty acid
    (c) Vitamin
    (d) Protein
    Answer: (b)

16. Basic dyes are soluble in
    (a) Acids
    (b) Alcohols
    (c) Water
    (d) None of the above
    Answer: (c)

17. Which of the following stage of cognitive development is found during period of birth to two years ?

(a) Sensorimotor stage
(b) Pre-operational stage
(c) Concrete operational stage
(d) Formal operational stage

Answer: (a)

18. Total period of one cardiac cycle is

(a) 5 seconds
(b) 0.8 second
(c) 0.2 second
(d) 2 seconds

Answer: (b)

19. Hormone that causes contraction of uterus during child birth is

(a) Vasopressin
(b) Leutenising hormone
(c) Gonadotrophin
(d) Oxytocin hormone

Answer: (d)

20. Which form of protein is found in Mother's milk ?

(a) Lactoalbumine
(b) Lactoglobuline
(c) Casein
(d) None of these

Answer: (d)

21. "Values provide motivation to human behaviour". This statement was given by

(a) Francis Magrabi
(b) Nickel and Dorscy
(c) Lewis Mumford
(d) Vargese and Ogale

Answer: (b)

22. Which of the following is not a natural dye ?

(a) Indigo
(b) Henna
(c) Turmeric
(d) Sulphur

Answer: (d)

23. The heart is divided into right and left side by a septum which is composed of myocardium and _____ tissue.
    (a) Endocardium
    (b) Adipose
    (c) Fibrous
    (d) Capillary

    Answer: (c)

24. Which one is not present in R.B.C. ?
    (a) Nucleous
    (b) Haemoglobin
    (c) Plasma
    (d) Water

    Answer: (a)

25. Which period is called stage of storm and stress ?
    (a) Infancy
    (b) Childhood
    (c) Adolescence
    (d) Adulthood

    Answer: (c)

26. Artificial ventilation method is
    (a) Conduction
    (b) Plenum system
    (c) Convection
    (d) Privy system

    Answer: (b)

27. To emphasise on particular object which type of lighting is used ?
    (a) Shade lighting
    (b) Track lighting
    (c) Indirect lighting
    (d) Spot lighting

    Answer: (d)

28. The National Adult Education Programme was started in
    (a) 1978
    (b) 1979
    (c) 1975
    (d) 1977

    Answer: (a)

29. Factor that directly affects the interior of a house
    (a) Structure of house
    (b) Site of house
    (c) (A) and (B) both
    (d) None of these
    Answer: (a)

30. Functions of testes are
    (a) Production of sperms
    (b) Secretion of testesterone hormone
    (c) Both of the above
    (d) None of these
    Answer: (c)

31. Which of the following is function of larynx ?
    (a) To allow food into pharynx
    (b) To allow food into trachea
    (c) To not allow food into trachea
    (d) None of the above
    Answer: (c)

32. Which one is not a soft diet ?
    (a) Soup
    (b) Kheer
    (c) Pudding
    (d) Khichadi
    Answer: (a)

33. _____ makes the innermost part of uterus.
    (a) Ligament
    (b) Endometrium
    (c) Hymen
    (d) Vagina
    Answer: (b)

34. 'Developing Objective' is a step of
    (a) Controlling
    (b) Planning
    (c) Policy Making
    (d) Evaluation
    Answer: (b)

35. Characteristics of early childhood
    (a) Preschool age
    (b) Pregang age
    (c) Curiosity age
    (d) All of the above
    Answer: (d)

36. Percentage of water in Saliva
    (a) 96.9%
    (b) 43.7%
    (c) 99.27%
    (d) 45%
    Answer: (c)

37. Plasma proteins make up about _____ of blood.
    (a) 7%
    (b) 15%
    (c) 20%
    (d) 50%
    Answer: (a)

38. In extension teaching method special preference is given to
    (a) Flexibility
    (b) Difference
    (c) Dependency
    (d) None of the above
    Answer: (a)

39. Which antigen is present in 'O' blood group ?
    (a) A
    (b) B
    (c) A and B
    (d) None
    Answer: (d)

40. Part of large intestine is
    (a) Caecum
    (b) Colon
    (c) Rectum
    (d) All above
    Answer: (d)

41. Between the two layers of pericardium there is a fluid, which is known as
(a) Cell fluid
(b) Lymphatic fluid
(c) Endocardial fluid
(d) Pericardial fluid
Answer: (d)

42. Jagenburg machine is used for
(a) Printing
(b) Dyeing
(c) Weaving
(d) Finishing
Answer: (b)

43. Trypsin and Chymotrypsin act on which pH ?
(a) 2 – 3 pH
(b) 4 – 6 pH
(c) 7.4 – 8.0 pH
(d) On any pH
Answer: (c)

44. Growth hormone is synthesised by
(a) Basophil cells
(b) Adenohypophysis
(c) Hypothalamus
(d) Mid brain
Answer: (b)

45. According to principles of development brain matures between the age of
(a) 6 – 8 years
(b) 2 – 4 years
(c) 10 – 12 years
(d) 14 – 16 years
Answer: (a)

46. Which of the following method of fabric construction is related with the process of “fabric made directly from fibres” ?
(a) Braid method
(b) Felt method
(c) Weaving method
(d) Knitting method
Answer: (b)

47. The first Committee of Health in India was established in the year 1946 and it is known as
(a) Public Health Service
(b) Central Social Welfare Board
(c) Bhor Committee
(d) Health Committee
Answer: (c)

48. The uniovular/identical twins may be
(a) Both female
(b) Both male
(c) Both male or both female
(d) One male and one female
Answer: (c)

49. Constipation caused due to weakening of muscles of digestive system is known as
(a) Intestinal constipation
(b) Spastic constipation
(c) Atonic constipation
(d) Anal constipation
Answer: (c)

50. Which one is common in plant cell and animal cell
(a) Chlorophyll
(b) Glycogen
(c) Starch
(d) Nucleous and protoplasm
Answer: (d)

51. There are _____ oxygen binding sites in a haemoglobin molecule.
(a) 6
(b) 7
(c) 2
(d) 4
Answer: (d)

52. In adulthood red blood cells are formed in
(a) liver
(b) spleen
(c) bone marrow
(d) lymph nodes
Answer: (c)

53. A filter known as English filter
    (a) Slow sand filter
    (b) Rapid filter
    (c) Gravity filter
    (d) Pressure filter

    Answer: (a)

54. Which amino acid is absent in pulses ?
    (a) Lysine
    (b) Methionine
    (c) Lucine
    (d) Isoleucine

    Answer: (b)

55. Vital capacity of lungs is measured by
    (a) Sphigmomanometer
    (b) Barometer
    (c) Thermometer
    (d) Spirometer

    Answer: (d)

56. The part of outer skin which we see on the top is known as
    (a) Stratum Lucidum
    (b) Stratum Germinatium
    (c) Stratum Granulosum
    (d) Stratum Corneum

    Answer: (d)

57. "Ab-A-Rawan", "Shabnam" and "Woft-A-Hawa" are the types of
    (a) Chanderi saree
    (b) Brocade of Varanasi
    (c) Muslin of Dacca
    (d) Peetamber of Hyderabad

    Answer: (c)

58. Diet recommended in Peptic Ulcer
    (a) Soft diet
    (b) Liquid diet
    (c) Bland diet
    (d) Low caloric diet

    Answer: (c)

59. At what stage, there is a feeling of sexual opposition in social development ?
    (a) Infancy
    (b) Early childhood
    (c) Late childhood
    (d) Adolescence
    Answer: (c)

60. The long threads or warp threads which are parallel to the selvedge is known as
    (a) On grain
    (b) Off grain
    (c) Both the above
    (d) None of the above
    Answer: (a)

61. _____ is the amount of blood ejected from ventricle every minute.
    (a) Heart rate
    (b) Electrocardiogram
    (c) Rhythm
    (d) Cardiac output
    Answer: (d)

62. Method of biological treatment of sewage purification is
    (a) Septic tank
    (b) Activated sludge process
    (c) Sewage farming
    (d) All of the above
    Answer: (d)

63. _____ is a system of body which supply blood to the smallest unit i.e. cell.
    (a) Heart
    (b) Blood circulatory
    (c) Arteries
    (d) Veins
    Answer: (b)

64. High blood pressure can be associated with
    (a) lower back pain
    (b) Nervous system problems
    (c) Kidney problem
    (d) Vitamin A deficiency
    Answer: (c)

65. The oldest and simplest type of organizational structure is
    (a) Vertical organization
    (b) Functional organization
    (c) Line organization
    (d) Line and staff organization

    Answer: (c)

66. Normally, the fertilization of ovum takes place in
    (a) Uterus
    (b) Fallopian tube
    (c) Ovary
    (d) Cilia

    Answer: (b)

67. Consumer Protection Act came into force in the year
    (a) 1986
    (b) 1987
    (c) 1988
    (d) 1989

    Answer: (a)

68. Which bacteria is used in fermentation process of ık ?
    (a) Streptococcus
    (b) Nitrifying
    (c) Vibrio cholera
    (d) Cocus

    Answer: (a)

69. Which element is responsible for nomenclature of vitamin ?
    (a) Carbon
    (b) Hydrogen
    (c) Nitrogen
    (d) Oxygen

    Answer: (c)

70. The group of same type of cells is known as
    (a) Cell
    (b) Skeleton
    (c) Tissues
    (d) Muscles

    Answer: (c)

71. Life of a person begins from
    (a) Birth
    (b) Conception
    (c) Growth
    (d) Development

    Answer: (b)

72. _____ is a resist technique of dyeing.
    (a) Block printing
    (b) Tie and dyeing
    (c) Batik dyeing
    (d) Stencil printing

    Answer: (b)

73. Zari work is famous from
    (a) Varanasi
    (b) Madras
    (c) Karnataka
    (d) Sindh

    Answer: (a)

74. The _____ is the sum of the separate scores for r sures divided by their number.
    (a) Mean
    (b) Mode
    (c) Median
    (d) None of these

    Answer: (a)

75. Uncontrolled production of white blood cells is called
    (a) Anaemia
    (b) Leukaemia
    (c) Immunity
    (d) Haemorrhage

    Answer: (b)

76. Which one is helpful in clotting of blood ?
    (a) Albumin
    (b) Globulin
    (c) Fibrinogen
    (d) None of these

    Answer: (c)

77. Which among the following is a multicellular living organism ?
(a) Virus
(b) Amoeba
(c) Bacteria
(d) Protozoa
Answer: —

78. Systolic pressure range during adulthood is
(a) 50 – 60
(b) 70 – 80
(c) 80 – 90
(d) 110 – 125
Answer: (d)

79. Smallest structural and functional unit of Kidney is called as
(a) Nephron
(b) Neuron
(c) Cell
(d) Urethra
Answer: (a)

80. How much urine a healthy person excretes in 24 hours ?
(a) 0.5 Litre
(b) 2.5 Litre
(c) 2.0 Litre
(d) 1.5 Litre
Answer: (d)

81. In proxino-distal direction development begins from which organ ?
(a) Spinal cord
(b) Head
(c) Chest
(d) Leg
Answer: (a)

82. For printing of 500 mt. to 5000 mt. cloth which method of printing is suitable ?
(a) Batik printing
(b) Block printing
(c) Screen printing
(d) None of above
Answer: (c)

83. Harness
    (a) Is a cylinder of warp
    (b) Is a cylinder of weft
    (c) Is a cylinder of cloth
    (d) Is a frame of a loom

    Answer: (d)

84. Mass contact method of extension teaching is
    (a) Audio-visual aids
    (b) Social media
    (c) Internet
    (d) All the above

    Answer: (d)

85. When infectious disease spreads within a limited area and during a limited period, known as
    (a) Epidemic
    (b) Pandemic
    (c) Endemic
    (d) Sporadic

    Answer: (c)

86. Thymus gland is involved in the formation of
    (a) Lymphocytes
    (b) Bones
    (c) Larynx
    (d) Insulin

    Answer: (a)

87. Low protein diet is given to the patients who is suffering from
    (a) Mal Nutrition
    (b) Acute Fever
    (c) Jaundice
    (d) Low weight

    Answer: (c)

88. Which method is not concerned with disposal of waste water ?
    (a) Dilution
    (b) Dumping
    (c) Chemical treatment
    (d) Biological treatment

    Answer: (b)

89. This method provides water connection to sub-divisions of pipes in the mohallas
(a) Grid System
(b) Ring System
(c) Tree System
(d) Radial System
Answer: (c)

90. For stitching of cotton clothes needle size is required
(a) 12 No.
(b) 20 No.
(c) 18 No.
(d) 16 No.
Answer: (d)

91. The group of tissues found covering the body and lining cavities is
(a) Epithelial tissue
(b) Cartilage
(c) Adipose tissue
(d) Fiberous tissue
Answer: (a)

92. When cloths are dyed in fiber stage before spinni .hen it is called
(a) Top dyeing
(b) Stock dyeing
(c) Yarn dyeing
(d) Piece dyeing
Answer: (b)

93. The requirement of which of the following mineral is high during typhoid fever ?
(a) Calcium
(b) Magnesium
(c) Iodine
(d) Iron
Answer: (d)

94. Functions of lungs is to purify the blood by the exchange of oxygen and carbon dioxide. This is called _____ of blood.
(a) Inspiration
(b) Oxygenation
(c) Carbonification
(d) Expiration
Answer: (b)

95. "Ability" is a
    (a) human resource
    (b) Non-human resource
    (c) Physical resource
    (d) Social resource
    Answer: (a)

96. Thickness and fineness of Yarn of wool is termed as
    (a) Counts
    (b) Denier
    (c) Skein
    (d) Novelty yarn
    Answer: (a)

97. The oldest method of hand printing in textile is
    (a) Roller printing
    (b) Screen printing
    (c) Block printing
    (d) Stencil printing
    Answer: (a)

98. The quantity of gastric juice secreted in normal a s may range from
    (a) 1500 – 2500 ml/day
    (b) 1000 – 1500 ml/day
    (c) 500 – 1000 ml/day
    (d) 2500 – 3000 ml/day
    Answer: (a)

99. Nerves which are affected by the external stimulus are
    (a) Motor nerves
    (b) Trachlear nerves
    (c) Sensory nerves
    (d) Vagus nerves
    Answer: (c)

100. Which one is the hottest colour according to Prang ?
    (a) Red and orange
    (b) Green and purple
    (c) Blue and yellow
    (d) Purple and blue
    Answer: (a)

101. Control and regulation of muscles necessary for body balance is done by

(a) Thalamus
(b) Olfactory lobe
(c) Cerebellum
(d) Cerebrum

Answer: (c)

102. Vasopressin is also known as

(a) Oxytocin
(b) Anti diuretic hormone
(c) Leutenising hormone
(d) Growth hormone

Answer: (b)

103. Whole grain cereals are an important source of which Vitamin ?

(a) B – Vitamin
(b) A – Vitamin
(c) E – Vitamin
(d) C – Vitamin

Answer: (a)

104. A market where all the seller sell same items in s e price, is known as

(a) Wholesale market
(b) Perfect competitive market
(c) Imperfect competitive market
(d) Retail market

Answer: (b)

105. Who considers “Extension education as the method of imparting knowledge to the rural society” ?

(a) Dhama
(b) Leagans
(c) Krishnamachari
(d) Burett

Answer: (a)

106. Small intestine is divided into three parts, Duodenum, Jejunum and _____

(a) Rectum
(b) Caecum
(c) Ileum
(d) Colon

Answer: (c)

107. Approximately at what age children start control over their bladder and bowel ?

(a) 1½ year
(b) 2½ year
(c) 2 year
(d) 3 year

Answer: (c)

108. Moireing is produced by

(a) Applying colour
(b) Moisture, heat and pressure
(c) Hot rollers
(d) Chemicals

Answer: (c)

109. Progesterone and Oestrogen hormones are secreted by

(a) Carpus Callosum
(b) Carpus Luteum
(c) Carpus Uterai
(d) Carpus Albikens

Answer: (b)

110. Contact with radio and doordarshan is called

(a) Individual contact
(b) Group contact
(c) Mass contact
(d) None of these

Answer: (c)

111. Moisture test is applicable on which fibre ?

(a) Cotton
(b) Rayon
(c) Asbestos
(d) Glass

Answer: (a)

112. Which International Agency is associated with “Applied Nutrition Programme” (ANP) in India ?

(a) CARE
(b) ICDS
(c) NIPCID
(d) UNICEF

Answer: (d)

113. According to Hurlock infancy period is
(a) from birth to 2 years
(b) from birth to 2 weeks
(c) from birth to 1 year
(d) from fertilization to 2 weeks
Answer: (b)

114. Kindergarten school for kids was established by
(a) J. J. Rousseau
(b) Jean Piaget
(c) Pestalozzi
(d) Frobell
Answer: (d)

115. Which of the following is a Monosaccharide ?
(a) Sucrose
(b) Starch
(c) Glucose
(d) Celulose
Answer: (c)

116. Synthetic dye is innovated by
(a) William Henry Parkin
(b) Moureau
(c) J.T. Dickson
(d) George Audemas
Answer: (a)

117. Outermost layer of eyes is
(a) Choroid
(b) Sclera
(c) Retina
(d) None of the above
Answer: (b)

118. “National Environmental Engineering Research Institute” is situated at
(a) Nagpur
(b) Mumbai
(c) Chennai
(d) Kolkata
Answer: (a)

119. Acid Rain was invented by
(a) Robert Angum Smith
(b) Robert Miles
(c) Robert Dillong
(d) Robert Brown
Answer: (a)

120. For optimum nutrition of infant which of the following fatty acid is more required ?
(a) Butyric Acid
(b) Linolic Acid
(c) Caproic Acid
(d) Arachdonic Acid
Answer: (b)

121. Warmth or coolness of colour is known as
(a) Hue
(b) Value of colour
(c) Intensity of colour
(d) None of these
Answer: (a)

122. The hormone that regulates spermatogenesis is
(a) Insulin
(b) Glucagon
(c) Thyroid
(d) Androgen
Answer: (d)

123. _____ is not used in the purification of water through chemical disinfection method.
(a) Charcoal
(b) Alum
(c) Bleaching Powder
(d) Lime
Answer: (a)

124. Every cell in the body has nucleus, with the exception of
(a) Skin
(b) Mature erythrocytes
(c) Liver
(d) Nerve cells
Answer: (b)

125. In normal condition number of white blood cells in the blood are

(a) 6,000 – 8,000

(b) 4,000 – 6,000

(c) 10,000 – 12,000

(d) 12,000 – 14,000

Answer: (a)

Answer key

Answer key from the U.P. Secondary Education Services Selection Board's official answer key for this sitting. "—" means the key gave none.

Home Science

1	**(c)**	2	**(b)**	3	**(a)**	4	**(a)**	5	**(d)**	6	**(a)**
7	**(c)**	8	**(b)**	9	**(d)**	10	**(a)**	11	**(b)**	12	**(c)**
13	**(b)**	14	**(c)**	15	**(b)**	16	**(c)**	17	**(a)**	18	**(b)**
19	**(d)**	20	**(d)**	21	**(b)**	22	**(d)**	23	**(c)**	24	**(a)**
25	**(c)**	26	**(b)**	27	**(d)**	28	**(a)**	29	**(a)**	30	**(c)**
31	**(c)**	32	**(a)**	33	**(b)**	34	**(b)**	35	**(d)**	36	**(c)**
37	**(a)**	38	**(a)**	39	**(d)**	40	**(d)**	41	**(d)**	42	**(b)**
43	**(c)**	44	**(b)**	45	**(a)**	46	**(b)**	47	**(c)**	48	**(c)**
49	**(c)**	50	**(d)**	51	**(d)**	52	**(c)**	53	**(a)**	54	**(b)**
55	**(d)**	56	**(d)**	57	**(c)**	58	**(c)**	59	**(c)**	60	**(a)**
61	**(d)**	62	**(d)**	63	**(b)**	64	**(c)**	65	**(c)**	66	**(b)**
67	**(a)**	68	**(a)**	69	**(c)**	70	**(c)**	71	**(b)**	72	**(b)**
73	**(a)**	74	**(a)**	75	**(b)**	76	**(c)**	77	**—**	78	**(d)**
79	**(a)**	80	**(d)**	81	**(a)**	82	**(c)**	83	**(d)**	84	**(d)**
85	**(c)**	86	**(a)**	87	**(c)**	88	**(b)**	89	**(c)**	90	**(d)**
91	**(a)**	92	**(b)**	93	**(d)**	94	**(b)**	95	**(a)**	96	**(a)**
97	**(a)**	98	**(a)**	99	**(c)**	100	**(a)**	101	**(c)**	102	**(b)**
103	**(a)**	104	**(b)**	105	**(a)**	106	**(c)**	107	**(c)**	108	**(c)**
109	**(b)**	110	**(c)**	111	**(a)**	112	**(d)**	113	**(b)**	114	**(d)**
115	**(c)**	116	**(a)**	117	**(b)**	118	**(a)**	119	**(a)**	120	**(b)**
121	**(a)**	122	**(d)**	123	**(a)**	124	**(b)**	12	**(a)**		