PREVIOUS YEAR PAPER

UP PGT 2016 — Home Science (Series A)

UP PGT · 1 or 2 February 2019

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 1 or 2 February 2019. Each question is followed by its answer, and the answer key is repeated on the last page.

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Home Science

1. In commercial cinema houses the size of the film used in film projectors
   (a) 5 mm
   (b) 16 mm
   (c) 8 mm
   (d) 30 mm
   Answer: —

2. Changing the outlook of man by educating him is the basic philosophy of
   (a) Education
   (b) Teaching
   (c) History
   (d) Extension work
   Answer: (d)

3. Example of infection transmissible to man from vertebrates
   (a) Mumps
   (b) Rabies
   (c) Diphtheria
   (d) Polio
   Answer: (b)

4. Expand SARS.
   (a) Systematic Acute Respiratory Syndrome
   (b) Severe Acute Respiratory Syndrome
   (c) Severe Accelerating Respiratory Syndrome
   (d) Slow Acute Respiratory Syndrome
   Answer: (b)

5. Dust, fumes, mist, vapors are impurities present in
   (a) Soil
   (b) Water
   (c) Air
   (d) Soil, water and air
   Answer: (c)

6. Carbohydrates found in virtually all foods except
   (a) Milk
   (b) Meats
   (c) Breads
   (d) Fruits
   Answer: (b)

7. A diet low in saturated fat, trans fats, cholesterol and refined sugars helps to control elevated blood
   (a) Sugar levels
   (b) Lipid levels
   (c) Sodium levels
   (d) Protein levels
   Answer: (b)

8. Human milk is richer source of _____ vitamin.
   (a) Vitamin E
   (b) Vitamin A
   (c) Vitamin D
   (d) Vitamin C
   Answer: (b)

9. Expired air of a patient contains more of
   (a) Carbon monoxide
   (b) Carbon dioxide
   (c) Carbon tetrachloride
   (d) Carbon trioxide
   Answer: (b)

10. The family that interrelates continually with its environment, is called as
   (a) Open system
   (b) Closed system
   (c) Semi-closed system
   (d) Semi-open system
   Answer: (a)

11. Salt is commonly fortified with
i. Vitamin A
ii. Iron
iii. Vitamin B
iv. Folic acid

(a) i and ii are correct
(b) ii and iv are correct
(c) ii and iii are correct
(d) iii and iv are correct

Answer: (b)

12. According to whom moral development occurs in two stages ?

(a) Neugarten
(b) Piaget
(c) Havighrust
(d) Erikson

Answer: (b)

13. Histograms and frequency Poygons are the two graphical representations of

(a) Frequency distribution
(b) Class mark
(c) Frequency table
(d) Binominal distribution

Answer: (a)

14. Prevention of blood loss is called

(a) Homeostasis
(b) Haemostasis
(c) Erythropoiesis
(d) Coagulation

Answer: (b)

15. The period of relaxation in cardiac cycle is

(a) Systole
(b) Cytosol
(c) Diastole
(d) Both (A) and (C)

Answer: (c)

16. Oxygen molecule combines with _____ portion of haemoglobin.

(a) Globulin
(b) RBC
(c) Heme
(d) None of these

Answer: (c)

17. _____ is secreted by 'G' cells of antrum of the stomach.
    (a) Pepsin
    (b) Amylase
    (c) Renin
    (d) Gastrin
    Answer: (d)

18. The gastric secretion consists _____ acid.
    (a) Nitric
    (b) Acetic
    (c) Sulfuric
    (d) Hydrochloric
    Answer: (d)

19. Amylase enzyme for carbohydrate digestion is secreted by
    (a) Mouth
    (b) Pancreas
    (c) Stomach
    (d) Both (A) and (B)
    Answer: (d)

20. Testosterone is secreted by
    (a) Leydig cells
    (b) Seminal cells
    (c) Sertoli cells
    (d) None of these
    Answer: (a)

21. _____ hormone is necessary for ovulation.
    (a) FSH
    (b) ACTH
    (c) TSH
    (d) LH
    Answer: (d)

22. The time of menstrual cycle is called
    (a) Puberty
    (b) Menopause
    (c) Menarche
    (d) Menstruation
    Answer: —

23. Expand ECF.
    (a) External Cell Fluid
    (b) Extra Cell Floor
    (c) Extra Cellular Fluid
    (d) Extension of Cell Fluid
    Answer: (c)

24. _____ synthesize lipids in cells.
    (a) Endoplasmic reticulum
    (b) Smooth endoplasmic reticulum
    (c) Rough endoplasmic reticulum
    (d) Golgi apparatus
    Answer: (b)

25. _____ are self replicative.
    (a) Lysosomes
    (b) Mitochondria
    (c) Golgi complex
    (d) Nucleus
    Answer: (b)

26. Fertilization of ovum takes place in
    (a) Ampullae
    (b) Endometrium
    (c) Uterus
    (d) Corpus luteum
    Answer: —

27. Example for cytoskeleton
    (a) Microtubule
    (b) Microfilament
    (c) Intermediate filament
    (d) All of these
    Answer: (d)

28. pH of blood is
    (a) 7.2
    (b) 6.5
    (c) 8.5
    (d) 7.4
    Answer: (d)

29. Pigments are also known as
    (a) Mordants
    (b) Dyes
    (c) Inks
    (d) None of the above
    Answer: (d)

30. The threads which extend throughout the length of the fabric are termed as _____ threads.
    (a) Filling
    (b) Wrap
    (c) Knop
    (d) Cloud
    Answer: (b)

31. Adding white to color paint to create lighter values is known as
    (a) Value contrast
    (b) Value shade
    (c) Tint
    (d) Shade
    Answer: (c)

32. Series of cards which when presented in proper s uence tell a complete story
    (a) Felt boards
    (b) Flash cards
    (c) Charts
    (d) None of the above
    Answer: (b)

33. The basic system of school introduced for education of children and adults alike
    (a) Bhoodan
    (b) Nai talim
    (c) Pilot project
    (d) Martandum
    Answer: (b)

34. A person, animal, object or substance from which an infection passes to the host
    (a) Source of infection
    (b) Reservoir
    (c) Cases
    (d) None of the above
    Answer: (a)

35. The mode of transmission of acute respiratory infections are
    (a) Water borne
    (b) Air borne
    (c) Water – air borne
    (d) Food borne
    Answer: (b)

36. Types of artificial ventilation
    (a) Exhaust ventilation
    (b) Air conditioning
    (c) Balanced ventilation
    (d) All of the above
    Answer: (d)

37. Compounds that facilitate the release of energy from carbohydrate, fat, and protein
    (a) Fiber
    (b) Minerals
    (c) Water
    (d) Vitamins
    Answer: —

38. Which of the following foods provides the highest ality protein ?
    (a) Corn
    (b) Whole grains
    (c) Gelatin
    (d) Egg
    Answer: (d)

39. The principal carbohydrate that is easily digested by an infant
    (a) Glucose
    (b) Lactose
    (c) Fructose
    (d) Sucrose
    Answer: (b)

40. The diet that is entirely inadequate from a nutritional standpoint
    (a) Soft diet
    (b) Full fluid diet
    (c) Clear fluid diet
    (d) Regular diet
    Answer: (c)

41. Ripper is a
    (a) Sewing tool
    (b) Cutting tool
    (c) Measurement tool
    (d) Pinning tool
    Answer: (a)

42. National Nutritional Anaemia Prophylaxis Programme was launched in India in the year
    (a) 1962
    (b) 1970
    (c) 1980
    (d) 1975
    Answer: (b)

43. A child will be cautious when he understands
    (a) Danger of animals
    (b) Playing
    (c) Drawing
    (d) Day dreaming
    Answer: (a)

44. Muddy water is purified by use of
    (a) Bromine
    (b) Iodine
    (c) Calcium oxide
    (d) Alum
    Answer: (d)

45. Haemolytic Disease of the New born occurs due to
    (a) Rh incompatibility
    (b) Lack of haemoglobin
    (c) ABO incompatibility
    (d) None of the above
    Answer: (a)

46. Heart is composed of _____ muscle.
    (a) Cardiac
    (b) Striated
    (c) Smooth
    (d) None of the above
    Answer: (a)

47. The basic process by which exchange of gases takes place during respiration is
    (a) Osmosis
    (b) Diffusion
    (c) Phagocytosis
    (d) Pinocytosis

    Answer: (b)

48. Gastrointestinal wall is made up of
    (a) Skeletal muscle
    (b) Striated muscle
    (c) Smooth muscle
    (d) Cardiac muscle

    Answer: (c)

49. Oxyntic glands are also known as
    (a) Gastric glands
    (b) Intestinal glands
    (c) Cardiac glands
    (d) Alveolar glands

    Answer: (a)

50. Saliva contains the digestive enzyme
    (a) Maltase
    (b) Kinase
    (c) Sucrose
    (d) Ptyalin

    Answer: (d)

51. Seminiferous tubules are present in
    (a) Vas deferens
    (b) Testis
    (c) Seminal vesicle
    (d) Prostate gland

    Answer: (b)

52. Maturation of spermatozoa takes place in
    (a) Epididymis
    (b) Seminal vesicle
    (c) Testis
    (d) Prostate gland

    Answer: (a)

53. FSH stimulates _____ cells in male.
    (a) Leydig cells
    (b) Interstitial cells
    (c) Sertoli cells
    (d) Seminiferous cells
    Answer: (c)

54. Corpus luteum secretes
    (a) Progesterone
    (b) Both (A) and (C)
    (c) Estrogen
    (d) Thyroxine
    Answer: (a)

55. Phospholipids in lipid bilayer of cell membrane are
    (a) Hydrophobic
    (b) Both (A) and (C)
    (c) Hydrophilic
    (d) None of these
    Answer: (b)

56. Power house of the cell is
    (a) Mitochondria
    (b) Lysosomes
    (c) Nucleus
    (d) Endoplasmic reticulum
    Answer: (a)

57. Fallopian tube is also known as
    (a) Oviduct
    (b) Uterus
    (c) Ampullae
    (d) Endometrium
    Answer: (a)

58. Pattern of large flower and leaves on Dacca Saries are known as
    (a) Phulwar
    (b) Jatar
    (c) Toredar
    (d) Panna Hazare
    Answer: (c)

59. Blood is slightly _____ in nature.
    (a) Acidic
    (b) Both (A) and (C)
    (c) Alkaline
    (d) None of these
    Answer: (c)

60. Hue, intensity and value are the three different dimensions of
    (a) Patterns
    (b) Texture
    (c) Color
    (d) Line
    Answer: (c)

61. Of these the correct pair is
    (a) Paithani- Maharashtra
    (b) Baluchari- Banaras
    (c) Brocades- Bengal
    (d) Kanjeevaram – Bengal
    Answer: (a)

62. Most commonly used dyes for " Batik" work are
    (a) Acidic dyes
    (b) Naphthol dyes
    (c) Anionic dyes
    (d) Sulphur dyes
    Answer: (b)

63. Pleats, seams or motifs radiate from focal point in
    (a) Vertical balance
    (b) Radial balance
    (c) Informal balance
    (d) Formal balance
    Answer: (b)

64. Motion pictures are which type of extension teaching method ?
    (a) Spoken and visual
    (b) Spoken
    (c) Visual
    (d) Audio
    Answer: (c)

65. Prevention of disease and promotion of health is the primary objective of
(a) Curative medicine
(b) Primitive medicine
(c) Preventive medicine
(d) Modern medicine

Answer: (c)

66. Whooping cough is caused by
(a) N. meningitides
(b) M. pneumoniae
(c) S. pyogenes
(d) B. pertussis

Answer: (d)

67. Other gases which occur in traces in air are
i. Argon
ii. Neon
iii. Ammonia
iv. Sulphur dioxide
(a) i and ii are correct
(b) ii and iii are correct
(c) iii and iv are correct
(d) i and iv are correct

Answer: (a)

68. Artificial ventilation is mostly resorted to p[illegible]uch as
i. Public halls
ii. Cinemas
iii. Factories
iv. Bus stops
(a) i,ii, iv are correct
(b) i, ii, iii are correct
(c) ii and iii are correct
(d) iii and iv are correct

Answer: (b)

69. Expand EPA.
(a) Essentialpentanoic acid
(b) Ecosapalmitic acid
(c) Eicosapentaenoic acid
(d) Ecosapentanoic antioxidant

Answer: (c)

70. Whey casein ratio of breast milk in early lactation
(a) 60:40
(b) 18:82
(c) 80:20
(d) 90:10
Answer: (c)

71. ICMR requirement during pregnancy is
(a) 21 mg/day
(b) 35 mg/day
(c) 40 mg/day
(d) 10 mg/day
Answer: —

72. Zinc phosphite is used as poison for
(a) Termites
(b) Cockroaches
(c) Rats
(d) Housefly
Answer: (c)

73. Children below six years, expectant and nursing mothers, adolescent girls are the beneficiaries of
(a) Midday meal programme
(b) Balwadi feeding programme
(c) Integrated Child Development Services Scheme
(d) Jawahar Rozgar Yojana
Answer: (c)

74. A child gains control over movements as walking, running during
(a) 1 or 2 years
(b) 7 or 8 years
(c) 4 or 5 years
(d) 2 or 3 years
Answer: (c)

75. Physical method of purification of water is
(a) Boiling
(b) Dilution
(c) Sedimentation
(d) Oxidation
Answer: (a)

76. _____ are granulocytes.
(a) Neutrophils
(b) Eosinophils
(c) Basophils
(d) All of the above
Answer: (d)

77. _____ converts fibrinogen to fibrin.
(a) Thromboxane
(b) Prothrombin
(c) Thrombocyte
(d) Thrombin
Answer: (d)

78. Deglutition is the process of
(a) Swallowing
(b) Excretion
(c) Chewing
(d) None of these
Answer: (a)

79. Resuscitator is used for
(a) Blood transfusion
(b) Artificial respiration
(c) Dialysis
(d) Ultrafiltration
Answer: (b)

80. Following do not form the part of gastrointestinal tract
(a) Liver
(b) Gall bladder
(c) Pancreas
(d) All of these
Answer: (d)

81. _____ activates pepsinogen in the stomach.
(a) Pepsin
(b) HCl
(c) Renin
(d) Amylase
Answer: (b)

82. An example for steroid hormone
    (a) Insulin
    (b) Epinephrine
    (c) Glucagon
    (d) Estrogen
    Answer: (d)

83. The process of conversion of spermatid to spermatozoa is called
    (a) Spermatogenesis
    (b) Spermatozoa
    (c) Spermiation
    (d) Spermiogenesis
    Answer: (d)

84. One spermatogonia cell gives rise to _____ spermatozoa.
    (a) 8
    (b) 5
    (c) 4
    (d) 1
    Answer: (c)

85. The remaining granulosa and theca interna cells after ovulation form
    (a) Corpus luteum
    (b) Follicles
    (c) Theca externa
    (d) Endometrium
    Answer: (a)

86. _____ separates nucleus from cytoplasm.
    (a) Nuclear pore
    (b) Nuclear membrane
    (c) Nucleoplasm
    (d) Cytoplasmic membrane
    Answer: (b)

87. _____ synthesize protein in the cell.
    (a) Peroxisomes
    (b) Ribosomes
    (c) Nucleus
    (d) Vesicles
    Answer: (b)

88. DNA is present in
    (a) Nucleus
    (b) Mitochondria
    (c) Both (A) and (B)
    (d) Golgi apparatus
    Answer: (c)

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

90. Average volume of blood in a normal adult is
    (a) 2 L
    (b) 5 L
    (c) 7 L
    (d) 1.5 L
    Answer: (b)

91. The most dominant visual element of a garment a[illegible]he first thing visible from distance is
    (a) Line
    (b) Color
    (c) Texture
    (d) Silhouette
    Answer: (d)

92. Batik, tie and dye and ikat printings are type of
    (a) Blotch prints
    (b) Resist prints
    (c) Discharge prints
    (d) Pigment prints
    Answer: (b)

93. Felt is not made with yarns but with
    (a) Loose fibers
    (b) Lace
    (c) Satin
    (d) Selvedges
    Answer: (a)

94. Clothing choice of fun, fashion, bright color is associated with
    (a) Superiority
    (b) Youthfulness
    (c) Happiness
    (d) Sadness
    Answer: (c)

95. An agency that is required to bridge the gulf between the research workers and people at large is
    (a) Extension
    (b) Gram Panchayat
    (c) School
    (d) Social Group
    Answer: (a)

96. Bulletin, Leaflets, News stories are grouped under
    (a) Individual contacts
    (b) Mass contacts
    (c) Group contacts
    (d) All of the above
    Answer: (b)

97. Expand DPT.
    (a) Diphtheria- pertussis- tetanus
    (b) Diphtheria-pneumonia-tetanus
    (c) Diarrheal- pertussis- tetanus
    (d) Diphtheria- pertussis- toxoid
    Answer: (a)

98. Widely used live bacterial vaccine
    (a) OPV
    (b) PPV
    (c) HIB
    (d) BCG
    Answer: (d)

99. Automobiles combustion, domestic fuel burning are sources of _____ pollution.
    (a) Water
    (b) Soil
    (c) Air
    (d) Noise
    Answer: (c)

100. The essential fatty acids include
(a) Stearic acid and oleic acid
(b) Oleic acid and linoleic acid
(c) Palmitic acid and linolenic acid
(d) Linoleic acid and linolenic acid
Answer: (d)

101. Solid food added to infant's diet is called
(a) Beikost
(b) Wemian
(c) Soft food
(d) Biscuits
Answer: (a)

102. Miscarriages, LBW, and preterm birth are associated with
(a) Low folate levels
(b) Low lipid levels
(c) Low carbohydrate levels
(d) Low protein levels
Answer: (a)

103. To remove stains from sinks, cement floor _____ used.
(a) Oxalic acid
(b) Vinegar
(c) Ammonia
(d) Bleaches
Answer: (d)

104. Primary social system surrounding the family system are
(a) Friends
(b) Relatives
(c) Neighbors
(d) All of the above
Answer: (d)

105. In babyhood most of the weight gain comes from an increase in
(a) Bone
(b) Muscle
(c) Fat
(d) Skin
Answer: (c)

106. Mumps, chicken pox, pulmonary tuberculosis are examples of
(a) Biological transmission
(b) Vehicle transmission
(c) Air transmission
(d) Trans-placental transmission
Answer: (c)

107. A set of observations taken at specified times, usually at equal intervals
(a) Correlation
(b) Time series
(c) Sampling
(d) Mean
Answer: (b)

108. Thrombocytes are also known as
(a) Lymphocytes
(b) WBCs
(c) RBCs
(d) Platelets
Answer: (d)

109. The basic propulsive movement of gastrointestinal tract is called
(a) Contraction
(b) Mastication
(c) Expulsion
(d) Peristalsis
Answer: (d)

110. _____ functions as tissue oxygen buffer in the body.
(a) Potassium
(b) Sodium
(c) Carbon di Oxide
(d) Haemoglobin
Answer: (d)

111. The chewing of food is called
(a) Digestion
(b) Grinding
(c) Mastication
(d) None of these
Answer: (c)

112. _____ cells secrete acid solution in the stomach.
(a) Chief
(b) Parietal
(c) Oxyntic
(d) Peptide
Answer: (b)

113. Expand ACTH.
(a) Adenocorticotropic Hormone
(b) Adrenocorticotropic Hormone
(c) Attenuated Cell Tropic Hormone
(d) Attached Cell Transport Hormone
Answer: (b)

114. _____ stimulates Leydig cells to secrete testosterone.
(a) FSH
(b) ACTH
(c) LH
(d) ADH
Answer: (c)

115. Expand FSH.
(a) Follicular Stimulating Hormone
(b) First Stimulation Hormone
(c) Follicle Starting Hormone
(d) Folliculation Stimulus Hormone
Answer: (a)

116. Ovulation is the process of
(a) Formation of ovum
(b) Expulsion of ovum
(c) Growth of ovum
(d) None of these
Answer: (b)

117. Which one is common in plant cell and animal cell ?
(a) Chlorophyll
(b) Glycogen
(c) Starch
(d) Nucleus and Protoplasm
Answer: (d)

118. _____ provides intercellular digestive system.
(a) Ribosomes
(b) Golgi
(c) Lysosomes
(d) Intestine
Answer: (c)

119. Expand ATP.
(a) Adenosine Tri Phosphate
(b) Arginine Tetra Phosphate
(c) Adenosine Tetra Phosphate
(d) Arginine Tri Phosphate
Answer: (a)

120. Outermost layer of ovum
(a) Corona radiata
(b) Epithelium
(c) Zona pellucida
(d) None of these
Answer: (a)

121. _____ is a connective tissue.
(a) Stomach
(b) Cardiac tissue
(c) Blood
(d) None of these
Answer: (c)

122. Major portion of erythropoietin is secreted by
(a) Stomach
(b) Lungs
(c) Heart
(d) Kidney
Answer: (d)

123. Dyes that are applied in cold bath with ice are
(a) Anionic dyes
(b) Cationic dyes
(c) Vat dyes
(d) Azo dyes
Answer: (d)

124. Example of twill weave fabric

(a) Muslin

(b) Sports Coat

(c) Bed Spread

(d) Khaki

Answer: (d)

125. Drafting is a construction plan of all the positions of the garment i.e. bodice and
i. Collar
ii. Pocket
iii. Sleeve

(a) i and ii are correct

(b) i and iii are correct

(c) ii and iii are correct

(d) i,ii and iii are correct

Answer: (d)

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