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Time : 400 Mins **NEET 11 4 23 TEST 15 AND 16 1** **Marks : 1594**

1. Number of male gametes in one pollen tube is
   a) One b) Two c) Four d) Six
2. If character is controlled by six alleles of a gene, then the possible genotypes would be
   a) 21 b) 729 c) 64 d) 42
3. Which one of the following technique is used to produce the GM crops?
   a) Micropropogation b) Somatic hybridization c) r-DNA technology d) Cross breeding
4. Read the given statements and select the correct option.
   Statement 1: A primary myofilament is composed of a bundle of rod-like molecules of a protein myosin.
   Statement 2: Myosin and actin together form a contractile apparatus.
   a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect
   c) Statement 1 is incorrect but statement 2 is correct d) Both statements 1 and 2 are incorrect
5. Which of the following most appropriately describe haemophilia
   a) Dominant gene disorder b) Recessive gene disorder c) X-linked recessive gene disorder
   d) Chromosomal disorder
6. The percentage of ab gamete produced by AaBb parent will be
   a) 25% b) 50% c) 75% d) 12.5%.
7. Read the given statements and select the correct option.
   Statement 1: The law of segregation is one of the most important contributions to the biology.
   Statement 2: It introduced the concept of heredity factors as discrete physical entities which do not become blended.
   a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect.
   c) Statement 1 is incorrect but statement 2 is correct d) Both statements 1 and 2 are incorrect.
8. Pedology is science of _____ .
   a) Earth b) Soil c) Diseases d) Pollution
9. Which of the following elements in plants is not immobilized?
   a) Sulphur b) Phosphorus c) Calcium d) Potassium
10. Pneumatophores occur in :
    a) Carnivorous plants b) Free-floating hydrophytes c) Halophy.tes d) Submerged hydrophytes
11. A pure line is obtained through
    a) Mass selection b) Hybridisation c) Domestication d) Inbreeding
12. Which one is exclusive characteristic of living beings?
    a) Increase in mass from inside b) Increase in mass both from outside and inside
    c) Perception of events happening in environment and their memory
    d) Isolated metabolic reactions occuring in vitro.
13. Upon stimulation of skeletal muscles, calcium is immediately made available for binding to troponin from
    a) blood b) lymph c) sarcoplasmic reticulum d) bone

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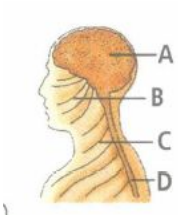
14. In the accompanying diagram of a part of the human body, the structures belonging to the central neural system are labelled as



a) A and C b) B and C c) A and D d) C and D

15. Which one of the folowing statement is correct?
a) Tapetum nourishes the developing pollen b) Hard outer layer of pollen is called intine
c) sporogenous tissue is haploid d) Endothecium produces the microspores

16. During Hatch and Slack pathway, PEP combines with CO_2 in the presence of enzyme PEP Case, to form OAA. This process of initial fixation of CO_2 occurs in
a) mesophyll cells b) bundle sheath cells c) both (a) and (b) d) none of these.

17. _____is the process of synthesis of ATP from ADP and Pi in the presence of light.
a) Phosphorylation b) Photophosphorylation c) Photosystem d) Oxidative phosphorylation

18. Parameters related to age structure include
a) fecundity (birth rate) b) generation time c) death rate d) all of these

19. The process of transformation is not affected by which of the following enzymes?
A. DNase
B. RNase
C. Peptidase
D. Lipase
a) A, B b) A, B, C, D c) B, C, D d) A, B, C

20. Which one single organism or the pair of organism is correctly assigned to its or their named taxonomic group?
a) Yeast used in making bread and beer is a fungus b) Nostoc and Anabaena are examples of protistes
c) Paramecium and plasmodium belong to the same kingdom as that of Penicillium
d) Lichen is a composite organism formed from the symbiotic association of an algae and protozoan

21. All plastids have essentially the same structure because
a) they have to perform the same function b) they are localised in the aerial parts of plants
c) one type of plastid can differentiate into another type of plastid depending upon the cell requirements
d) all plastids have to store starch, lipids and proteins.

22. Read the following statements and select the incorrect one
a) Semen is preserved for artificial insemination by heating.
b)
Mating of animals within the same breed, but having no common ancestors on either side of their pedigree upto 4 - 6 generations is called as outcrossing.
c) Example of interspecific hybridisation is mule d) Hinny is a hybrid between the female ass and stallion.

23. A plant producing seeds but lacking flowers is :
a) Gymnosperm b) Bryophyte c) Angiosperm d) Pteridophyte

24. Casparian strips occur in _____ .
a) Cortex b) Pericycle c) Epidermis d) Endodermis

25. Condensation of chromosomes and appearance of astral rays occur during;
a) Prophase b) Metaphase c) Anaphase d) Telophase

26. Which one of the following animals has two separate circulatory pathways?
a) Lizard b) Whale c) Shark d) Frog

27. Counter current mechanism helps in concentrating urine in animals and mainly operates on
a. Henle's loop
b. Vasa-recta

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c. PCT
d. b only
a) a only b) b only c) a and b d) All of these

28. Approximately how much of the solar energy that falls on the leaves of a plant is converted to chemical energy by photosynthesis?
a) Less than 1% b) 2-10% c) 30% d) 50%

29. The transverse section of a plant shows following anatomical features:
a) Large number of scattered vascular bundles surrounded by bundle sheath.
b) Large conspicuous parenchymatous ground tissue. c) Vascular bundles conjoint and closed
d) Phloem parenchyma absent.

30. Tropical plants have a_____ temperature optimum than the plants adapted to temperate climates.
a) lower b) equal c) higher d) none of these

31. Match column I with column II and select the correct option from the given codes.

Column I	Column II
A. Eurythermal	(i) Able to tolerate narrow range of temperature
B. Stenothermal	(ii) A stage of suspended development
C. Conformers	(iii) Body temperature changes with ambient temperature
D. Diapause	(iv) Able to tolerate wide range of temperature

a) A-(iv), B-(i), C-(iii), D-(ii) b) A-(iv), B-(i), C-(ii), D-(iii) c) A-(ii), B-(iv), C-(iii), D-(i)
d) A-(i), B-(ii), C-(iii), D-(iv)

32. If you suspect major deficiency of antibodies in a person, to which ofthe following would you look for confirmatory evidences?
a) Serum albumins b) Haemocytes c) Serum globulins d) Fibrinogin in plasma

33. Transfonning principle explains
a) Certain rules for growth culture of bacteria b) Ingredients of culture medium
c) Chemical substance released by S type d) Chemical substance released by R type

34. Study the following statements regarding lactic acid bacteria (LAB) which are used to convert milk into curd
(i) They produce acids that coagulate and partially digest the milk proteins.
(ii) A small amount of curd added to the fresh milk as an inoculum contains millions of LAB, which at suitable temperature, multiply and convert milk into curd.
(iii) Conversion of milk into curd improves its nutritional quality by increasing vitamin B12.
(iv) LAB may result in acidity in the stomach of human beings.
Which of the given statements are correct?
a) (i) and (ii) b) (ii) and (iii) c) (i), (ii) and (iii) d) (i), (ii), (iii) and (iv)

35. Seminal plasma in human males is rich in _____
a) fructose and calcium. b) glucose and calcium c) DNA and testosterone d) ribose and porassiurn

36. Introduction of Nile Perchin lake Victoria of South Africa resulted in
a) excessive growth of water weeds b) elimination of water weeds
c) elimination of many species of cichlid fish d) excessive growth of cichlid fish.

37. Assertion: Vigorous contraction of the uterus at the end of pregnancy causes expulsion.
Reason: The stimulatory reflex between the uterine contraction and oxytocin secretion results in weakening contractions.
a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

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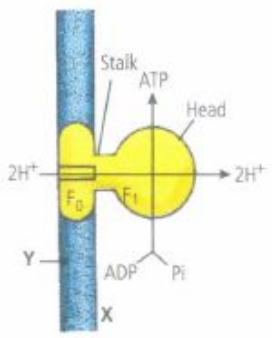
38. Study the given figure and select the incorrect option regarding this.



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a)
The figure represents chemiosmotic ATP synthesis by oxysomes where X is the mitochondrial matrix and Y is the inner mitochondrial membrane

b) Enzyme required for ATP synthesis is ATP synthase, considered to be the complex-V of ETS.

c)
The figure represents oxidative phosphorylation which is the synthesis of energy rich ATP molecules with the help of energy liberated during oxidation of reduced co-enzymes (NADH, FADH2) produced in respiration.

d)
ATP synthase becomes active only when there is a proton gradient having higher concentration of protons (W) on the inner side (F1 side) as compared to the outer side (Fa side).

39. What happens when the pacemaker becomes nonfunctional?
a) Only auricles contract rhythmically b) Only ventricles contract rhythmically
c) Cardiac muscles do not undergo co-ordinated rhythmic movements
d) Auricles and ventricles contract rhythmically

40. Bull frog of India is _____ .
a) Rana tigrina b) R. sylvatlca c) R. ecutesbeiana d) R. esculenta

41. How many pairs of cranial nerves are mixed nerves?
a) 3 b) 5 c) 4 d) 6

42. In oogenesis haploid egg is fertilised by sperm at which stage?
a) Primary oocyte b) Secondary oocyte c) Oogonium d) Ovum

43. If pH of stomach is 1.6, then which enzyme will digest protein?
a) Amylase b) Trypsin c) Erypsin d) Pepsin

44. Pasteurisation of milk involve heating for _____.
a) 60 min at about 90ºC b) 30 min at about 50ºC c) 30 min at about 65ºC d) 60 min at 100ºC

45. Which type of tissue is correctly matched with its location?

a)

Tissue	Location
Areolar tissue	Tendons

b)

Tissue	Location
Transitional epithelium	Tip of nose

c)

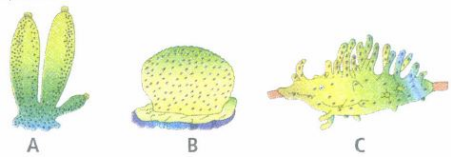
Tissue	Location
Cuboidal epithelium	Lining of stomach

d)

Tissue	Location
Smooth muscle	Wall of intestine

46. Growth is primarily affected by two climatic factors which are?
a) Light and temperature b) Temperature and relative humidity c) Light and wind
d) Rainfall and temperature

47. Identify the given figures A, B and C and select the correct option.



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a)

A	B	C
Sycon	Euspongia	Spongilla

b)

A	B	C
Euspongia	Spongilla	Sycon

c)

A	B	C
Spongilla	Sycon	Euspongia

d)

A	B	C
Euspongia	Sycon	Spongilla

48. Where do you find podocyte cells in human body?
a) Brain b) Liver c) Kidney d) Pancreas

49. Humoral immunity is associated with
a) T-cells b) B-cells c) macrophages d) both (a) and (b)

50. Gibberellins induce_____
a) flowering b) production of hydrolysing enzymes in germinating seeds c) cell division
d) hasten leaf senescence

51. The haemorrhagic disease of new born is caused due to the deficiency of_____
a) vitamin - A b) vitamin - B_1 c) vitamin - B_{12} d) vitamin - K

52. Match the following columns and select the correct option

Column - I	**Column - II**
A. Eosinopnils	(i) Immune response
B. Basophils	(ii) Phagocytosis
C. Neutrophils	(iii) Release histaminases, destructive Enzymes
D. Lymphocytes	(iv) Release granules containing histamine

a) (i),(ii),(iv),(iii) b) (ii),(i),(iii),(iv) c) (iii),(iv),(ii),(i) d) (iv),(i),(ii),(iii)

53. Read the following statements
(i) One codon codes for only one amino acid.
(ii) Some amino acids are coded by more than one codon.
(iii) The sequence of triplet nitrogenous bases in DNA or mRNA corresponds to the amino acid sequence in the polypeptide chain
Give suitable terms for the characteristics of 'genetic code' as per the above statements.

a)

Degeneracy	**Colinearity**	**Unambiguous**
(i)	(iii)	(iii)

b)

Degeneracy	**Colinearity**	**Unambiguous**
(iii)	(ii)	(i)

c)

Degeneracy	**Colinearity**	**Unambiguous**
(ii)	(iii)	(i)

d)

Degeneracy	**Colinearity**	**Unambiguous**
(i)	(ii)	(iii)

54. Bacteria are grouped under four categories according to their shape. Study the given figures and select the correct option regarding this.

a)

A	B	C	D
Cocci	Bacilli	Spirilla	Vibrio

b)

A	B	C	D
Spirilla	Bacilli	Vibrio	Cocci

c)

A	B	C	D
Bacilli	Spirilla	Vibrio	Cocci

d)

A	B	C	D
Bacilli	Spirilla	Cocci	Vibrio

55. What is the position of oldest secondary phloem?
a) Just outside the pericycle b) Just outside the vascular cambium c) Just inside the pericycle
d) Below the vascular cambium

56. Father of Indian embryology is
a) P.Maheshwari b) Swaminathan c) R.Misra d) Butler

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57. $NADP^+$ is reduced to NADPH in _____ .
a) HMP b) Calvin cycle c) glycolysis d) EMP

58. An organism with two identical alleles is___
a) dominant b) hybrid c) heterozygous d) homozygous

59. The excretory structures of flat worms/Taenia are _____ .
a) flame cells b) protonephridia c) Malpighian tubules d) green glancts

60. The semilog of per minute growing bacteria is plotted against time. What will be the shape of graph?
a) Sigmoid b) Hyperbolic c) Ascending straight line d) Descending straight line

61. Cyanobacteria are classified under
a) Protista b) Planta c) Monera d) Algae.

62. Which of the following options represents the correct classification for the given animal?

a)

Phylum	Class	Order	Family	Genus	Species
Chordata	Vertebrata	Chiroptera	Felidae	Canis	tigris

b)

Phylum	Class	Order	Family	Genus	Species
Chordata	Mammalia	Carnivora	Felidae	Panthera	tigris

c)

Phylum	Class	Order	Family	Genus	Species
Vertebrata	Mammalia	Carnivora	Felidae	Panthera	tigris

d)

Phylum	Class	Order	Family	Genus	Species
Mammalia	Felidae	Carnivora	Feliaeeae	Panthera	leo

63. Tidal Volume and Expiratory Reserve Volume of an athlete is 500 mL and 1000 mL, respectively. What will be his Expiratory Capacity if the Residual Volume is 1200 mL?
a) 1500 mL b) 1700mL c) 2200 mL d) 2700 mL

64. If green plant cells are incubated with 0'8 - labelled water, which of the following molecules will become radioactive when the cells are exposed to light?
a) O_2 b) CO_2 c) H_2O d) Suga

65. Read the given statements and select the correct ones.
(i) Root caps are present in prop roots.
(ii) Pneumatophores help to get oxygen for respiration
(iii) Edible part of ginger is underground stem
(iv) Hydrophytes usually possess a well developed root system
a) (i) and (ii) only b) (ii) and (iii) only
c)
Hydrophytes are plants adapted for growing in water. In hydrophytes, roots are of secondary importance so they are poorly developed.
d) (i), (ii), (iii) and (iv)

66. Which of the following companies started selling humulin in the year 1983?
a) Eli Lilly b) Genetech c) GEAC d) None of these

67. Which one of the following is incorrect about the characteristics of protobionts (coacervates and microspheres) as envisaged in the biogenic origin of life?
a) They were able to reproduce. b) They could separate combinations of molecules from the surroundings.
c) They were partially isolated from the surroundings. d) They could maintain an internal environment.

68. The genes causing cancer are
a) structural genes b) expressor genes c) oncogenes d) regulatory genes

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69. Select the wrong statement with respect to the structure of a plant cell:
a) Cellulosic cell wall is present inside the cell membrane. b) Centrioles are usually absent
c) A large central vacuole is present
d) Golgi apparatus is formed of a number of unconnected units called dictyosomes

70. BGA is chiefly used as biofertilizer in the crop of
a) Wheat b) Gram c) Mustard d) Paddy

71. The nature of climax community ultimately depends on _____.
a) climate b) bed rock c) soil organisms d) pool of available nutrients

72. Klinostat is employed in the study of____
a) osmosis b) growth movements c) photosynthesis d) respiration

73. In Hardy- Weinberg equation, the frequency of heterozygous individual is represented by:
a) pq b) q^2 c) P^2 d) 2pq

74. Sella turcica, a depression enclosing the pituitary gland is found in
a) Temporal bone b) parietal bones c) Sphenoid bone d) Frontal bone

75. Lymph nodes form
a) hormones b) lymph c) antigens d) antibodies

76. Which of the following is not a correct match of animal and its habitat?
a) Hydra vulgaris - Sea water b) Hydra gangetica - Freshwater c) Obelia - Sea water
d) Physalia - Sea water

77. The herbicide DCMU kills the weeds because it inhibits
a) respiration b) CO_2 fixation c) cell division d) NO_3^{2-} uptake

78. A colour blind man marries a women with normal sight who has no history of colour blindness in her family. What is the probability of their grandson being colour blind?
a) 0.25 b) 0.5 c) 1 d) Nil

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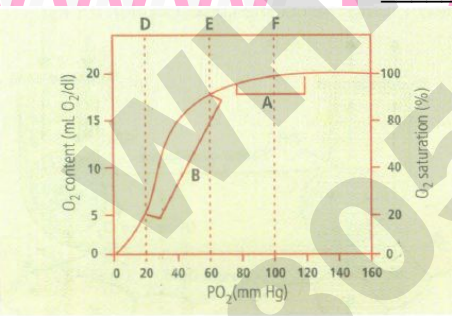
79. Blood can combine with almost _____ of oxygen if the haemoglobin is 100 per cent saturated.



a) 18 mL b) 15 mL c) 20 mL d) 10 mL

80. From among the sets of terms given below, identify those that are associated with the gynoecium.
a) Stigma, ovule, embryo sac, placenta b) Thalamus, pistil, style. ovule
c) Ovule, ovary, embryo sac, tapetum d) Ovule, stamen, ovary, embryo sac

81. In the DNA of an animal percentage of Adenine is 30, then percentage of Guanine will be-
a) 40 b) 30 c) 20 d) 70

82. Select the correct statement about G_1 phase
a) Cell is metabolically inactive. b) DNA in the cell does not replicate
c) It is not a phase of synthesis of macromolecules d) Cell stops growing

83. Anthesis is a phenomenon which refers to_____
a) reception of pollen by stigma b) formation of pollen c) development of anther d) opening of flower bud

84. Consider the following four statements and select the correct option stating which ones are true (T) and which ones are false (F).
(i) The stomach has the lowest pH.

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(ii) The liver contains lipid emulsifier.
(iii) Large intestine secretes many enzymes.
(iv) All proteases function in the lumen of small intestine

a)	b)	c)	d)
(i) (ii) (iii) (iv)	(i) (ii) (iii) (iv)	(i) (ii) (iii) (iv)	(i) (ii) (iii) (iv)
T F T F	F T F T	F F T T	T T F F

85. Which one of the following statements for pparhid of energy is incorrect, whereas the remaining three are correct?
a) Its base is broad. b) It shows energy content of different trophic level organisms.
c) It is inverted in shape. d) It is upright in shape

86. Read the following statements and select the incorrect one.
a) Little decomposition occurs during the formation of primary sludge
b) Formation of primary sludge requires ample aeration
c) Activated sludge possess flocs of decomposer microbes
d) Formation of activated sludge requires aeration

87. Which one of the following is a slime mould?
a) Anabaena b) Rhizopus c) Physarum d) Thiobacillus

88. Who proposed the fluid mosaic model of plasma membrane?
a) Camillo Golgi b) Schleidenand Schwann c) Singer and Nicolson d) Robert Brown

89. Which one is the mis-matched pair?
a) Largest isolated - Egg of an ostrich single cell b) Golgi apparatus - Discovered by Altman
c) Mitochondria - Name was given by Benda d) Lysosomes - Discovered by de Duve

90. Pyramids of energy are -
a) Always upright b) Always Inverted c) Mostly upright d) Mostly inverted

91. First step of taxonomy is
a) Characterisation b) Identification c) Nomenclature d) Classification

92. Somaclones are
a) somatic hybrids b) genetically identical to the original plant c) used to recover disease free plants
d) sterile plants

93. The function of glyoxysome is
a) protein metabolism b) carbohydrate metabolism c) fat metabolism d) protein synthesis

94. Which one of the following cannot be explained on the basis of Mendel's Law of Dominance?
a) Factors occur in pairs. b) The discrete unit controlling a particular character is called a factor
c) Out of one pair of factors one is dominant, and the other recessive
d) Alleles do not show any blending and both the characters recover as such in F_2 generation

95. Which one of the following is not a characteristic of meristematic cells?
a) Presence of intercellular spaces b) Thin cellulosic cell walls c) Presence of prominent nucleus
d) High metabolic rate

96. In plants, which of the following cells are living
a) Xylem vessels b) Meristem c) Cork d) Fibres

97. Vascular cambium and cork cambium are
a) lateral meristems b) intercalary meristems c) primary meristems d) apical meristems

98. The figure given below shows a cell undergoing meiosis.

Which of the options below shows the next stage in the process?

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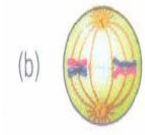
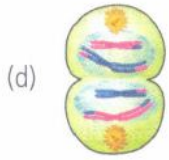
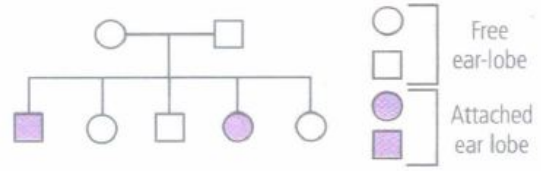
a)

b) 

c)
d) 

99. Given pedigree chart depicts the inheritance of attached ear lobes, an autosomal recessive trait.



Which of the following conclusions drawn is correct?

a) Parents are heterozygous. b) Parents are homozygous dominant.

c) Parents are homozygous recessive. d) None of these

100. The roof of the cranium of frog is formed by _____ .

a) parasphenoid b) alisphenoid c) frontoparietal d) orbitosphenoid

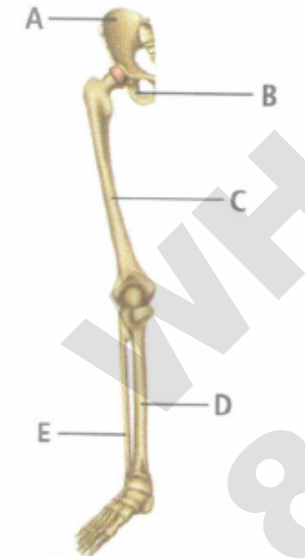
101. Which of these glands is large at the time of birth but in adults, it reduces to a very small size?

a) Thyroid b) Adrenal c) Thymus d) Spleen

102. The chromosome in which centromere lies slightly away from the middle of the chromosome resulting into one shorter arm and one longer arm, is called as

a) metacentric b) submetacentric c) acrocentric d) telocentric.

103. The figure is showing part of right pelvic girdle and lower limb bones. Identify the parts labelled as A to E and select the correct option.



a)

A	B	C	D	E
Sacrum	Pubis	Patella	Metatarsal	Fibula

b)

A	B	C	D	E
Ilium	Ischium	Femur	Tibia	Fibula

c)

A	B	C	D	E
Ilium	Ischium	Femur	Fibula	Tibia

d)

A	B	C	D	E
Ischium	Ilium	Patella	Tibia	Tarsal

104. What gases are produced in anaerobic sludge digesters?

a) Methane and CO_2 only b) Methane, Hydrogen Sulphide and CO_2

c) Methane, Hydrogen Sulphide and O_2 d) Hydrogen Sulphide and CO_2

105. Under which of the following conditions will there be no change in the reading frame of following mRNA?

5'AACAGCGGUGCUAUU3"

a) Deletion of G from 5th position b) Insertion of A and G at 4th and 5th positions respectively

c) Deletion of GGU from 7th, 8th and 9th positions d) Insertion of G at 5th position

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106. Which ecosystem has the maximum biomass?
a) Forest ecosystem b) Grassland ecosystem c) Pond ecosystem d) Lake ecosystem

107. Polygonum type of embryo sac is:
a) 8-nucleate, 7-celled b) 8-nucleate, 8-celled c) 7-nucleate, 7-celled d) 4-nucleate, 3 celled.

108. The most important factor affecting transpiration is
a) Light b) Temperature c) Wind d) Atmospheric humidity

109. Which aquatic fern performs nitrogen fixation?
a) Azolla b) Nostoc c) Salvia d) Salvinia

110. Glycogen is stored in -
a) Liver and muscles b) Liver only c) Muscles only d) Pancreas

111. The molecular action of ultraviolet light is mainly reflected through -
a) Destruction of hydrogen bonds in DNA b) Photodynamic action c) Formation of pyrimidine
d) Formation of sticky metaphase

112. **Assertion:** Second trimester abortions are much more complicated.
Reason: After 12 weeks the foetus becomes intimately associated with the maternal tissues.
a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

113. Which of the following is correct regarding the consequences of over population?
a) It increases the poverty of a country. b) It leads to shortage of food supply. c) It results in unemployment.
d) All of these

114. Arrange the following ecosystems in increasing order of their mean NPP (tons/ha/year).
A. Tropical deciduous forest
B. Temperate coniferous forest
C. Tropical rainforest
D. Temperate deciduous forest
a) B < A < D < C b) D < B < A < C c) A < C < D < B d) B < D < A < C

115. Refer to the given reaction

$$RuBP + O_2 \xrightarrow[Oxygenase]{RuBP} \text{phosphoglyceric acid + Phosphoglycolic acid}$$

It is the first reaction of
a) C_3 pathway b) C_4 pathway c) C_2 pathway d) glycolysis

116. In honeybees, females are _(i)_ having_(ii)_chromosomes and males are_(iii)_having_(iv)_chromosomes.

a)

i	ii	iii	iv
diploid	46	haploid	23

b)

i	ii	iii	iv
haploid	23	diploid	46

c)

i	ii	iii	iv
diploid	32	haploid	16

d)

i	ii	iii	iv
haploid	16	diploid	32

117. Eutrophication refers to -
a) High production in an aquatic ecosystem b) Low production in an aquatic ecosystem
c) Low production in a terrestrial d) Stable production in a terrestrial ecosystem

118. Select the correct option
a) 11th and 12th pairs of ribs are connected to the sternum with the help of hyaline cartilage.
b)
Each rib is a flat thin bone and all the ribs are connected dorsally to the thoracic vertebrae and ventrally to the sternum
c) There are seven pairs of vertebrosternal, three pairs of vertebrochondral and two pairs of vertebral ribs.
d) 8th, 9th and 10th pairs of ribs articulate directly with the sternum.

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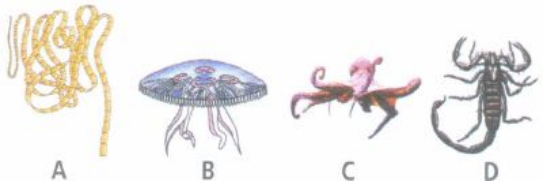
119. The given figures (A - D) show four animals. Select the correct option with respect to a common characteristic of any two of these animals.



a) A and D respire mainly through body wall. b) B and C show radial symmetry.
c) A and B have cnidoblasts for self-defence. d) C and D have a true coelom

120. A young infant may be feeding entirely on mother's milk which is white in colour but the stools which the infant passes out is quite yellowish. What is this yellow colour due to?
a) Pancreatic juice poured into the duodenum b) Intestinal juice c) Bile pigments passed through bile juice
d) Undigested milk protein casein

121. Read the given statements and select the correct option.
Statement 1 : Irrigation without proper drainage of water leads to waterlogging in the soil.
Statement 2 : Waterlogging draws salts to the soil surface, which are deposited as a thin crust on the land surface or start collecting at the roots of the plants.
a) Both statements 1 and 2 are correct. b) Statement 1 is correct but statement 2 is incorrect.
c) Statement 1 is incorrect but statement 2 is correct. d) Both statements 1 and 2 are incorrect.

122. Which one of the following is not true about antibiotics:
a) First, antibiotic was discovered by Alexander Fleming.
b) The term 'antibiotic' was coined by S.Waksman in 1942.
c) Each antibiotic is effective only against one particular kind of germ .
d) Some persons can be only against one particular kind of germ.

123. Which one of the following options shows a correct matching pair?
a) Man - Ureotelic b) Bird - Ammonotelic c) Fish - Uricotelic d) Frog - Uricotelic

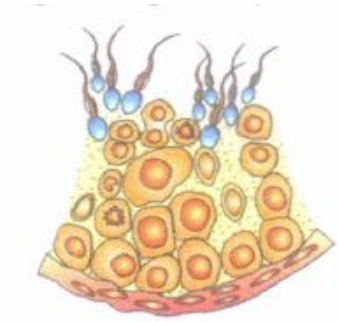
124. The practice of breaking of rocks during rainy season by inserting wooden pegs in them is based on the phenomenon of
a) imbibition pressure b) turgor pressure c) osmotic pressure d) wall pressure

125. The osmotic expansion of a cell kept in water is chiefly regulated by:
a) Mitochondria b) Vacuoles c) Plastids d) Ribosomes

126. **Assertion:** Pasteur coined **Contagium Vivum Fluidum.**
Reason: Pasteur found that virus infected plant of tobacco can cause infection in healthy plant.
a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

127. Hypersecretion of Growth Hormone in adults does not cause further increase in height. because _____
a) Epiphyseal plates close after adolescence. b) Bones loose their sensitivity to Growth Hormone in adults.
c) Muscle fibres do not grow in size after birth. d) Growh Hormone becomes inactive in adults.

128. What does the given figure represent?



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a) Sectional view of ovary b) Sectional view of seminiferous tubule c) L.S. of testis
d) Mature Graafian follicle

129. Part not belonging to uriniferous tubule is _____ .
a) glomerulus b) Henle's loop c) distal convoluted tubule d) collecting tubule

130. The method of directly injecting a sperm into ovum in assisted reproductive technology is called
a) GIFT b) ZIFT c) ICSI d) ET

131. Which one of the following is not normally excreted in urine?
a) Uric acid b) Haemoglobin c) Ketone bodies d) Hippuric acid

132. Which one of the following equipments is essentially required for growing microbes on a large scale, for industrial production of enzymes?
a) Sludge digest b) Industrial oven c) Bioreactor d) BOD incubator

133. A disease which can be transferred from mother to child through placenta is
a) German measles b) Syphilis c) AIDS d) All of these

134. Mayr proposed which type of concept of species:
a) Taxonomic concept b) Biological concept c) Taxonomic and Biological concept d) Genetic concept

135. Match column I with column II and select the correct option from the codes given below.

	Column - I		Column - II
A.	Pseudostratified epithelium	(i)	Connective tissue
B.	Matrix	(ii)	Absorption
C.	Striated myofibril	(iii)	Trachea
D.	Mesothelium	(iv)	Body cavity lining
E.	Microvilli	(v)	Multinucleate

a) A-(i), B-(ii), C-(iii), D-(iv), E-(v) b) A-(ii), B-(v), C-IIv), D-(i), E-(iii) c) A-(iii), B-(i), C-(v), D-(iv),E-(ii)
d) A-(iv), B-(iii), C-(v),D-(i), E-(ii)

136. Kidneys are reddish brown, bean-shaped structures aituated between the levels of_____thoracic and_____lumbar vertebrae.
a) 11th; 10th b) 12th; 3rd c) 10th; 2nd d) 12th; 5th

137. 'Broadly utilitarian' argument for the conservation of biodiversity does not include
a) bioprospecting b) pollination c) aesthetic value d) climatic regulation

138. Which of the following pairs is not correctly matched? mode of reproduction example:
a) Rhizome Banana b) Binary fission Sargassum c) Conidia penicillium d) Offset Water hyacinth

139. Which of the following statements about dark reactions is correct?
a) They occur in darkness. b) They are not light dependent.
c) They are dependent upon the products synthesised during light reactions. d) All of these

140. Find the odd one out:
a) vaccines - immunology b) eco degradation - pesticides c) solar energy converter - pest control
d) recombinant DNA - biotechnology

141. Gross primary productivity is -
a) Rate at which organic molecules are formed in autotroph
b) Rate at which organic molecules are used up by an autotroph
c) Storage of organic molecules in the body of an autotroph
d) Rate at which organic molcules are transfered to next higher tropic level

142. In pultru, coccidiosis is caused by
a) Virus b) Fungus c) Gelminth parasite d) Protozoan

143. Gastric juice of infants contains_____
a) nuclease, pepsinogen, lipase b) pepsinogen, lipase, rennin c) amylase, rennin, pepsinogen
d) maltase, pepsinogen, rennin

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144. A colourblind daughter is born when
a) Father is colourblind, mother is normal b) Mother is coloublind, father is normal
c) Mother is carrier, father is normal d) Mother is carrier, father is colourblind

145. Which of the following statements does not hold true for restriction enzyme?
a) It recognises a palindromic nucleotide sequence. b) It is an endonuclease. c) It is isolated from viruses.
d) It produces the same kind of sticky ends in different DNA molecules.

146. Which of the following immune responses is responsible for rejection of kidney graft?
a) Humoral immune response b) Inflammatory immune response c) Cell-mediated immune response
d) Auto-immune response

147. The cyanobacteria are also referred to as _____ .
a) Protists b) Golden algae c) Slime moulds d) Blue green algae

148. Genetic information is carried by the long chain molecules which are made up of -
a) Amino acids b) Nucleotides c) Chromosomes d) Enzymes

149. The cardiac impulse is initiated and conducted further upto ventricle. The correct sequence of conduction of impulse is

a)

SA Node	AV Node	Purkinje fibre	AV Bundle

b)

SA Node	Purkinje fibre	AV Node	AV Bundle

c)

SA Node	AV Node	AV Bundle	Purkinje fibre

d)

SA Node	Purkinje fibre	AV Bundle	AV Node

150. The primary dentition in human differs from permanent dentition in not having one of the fotlowirig type of teeth_____
a) Premolars b) Molars c) Incisors d) Canine

151. Bull semen of artificial insemination is stored in
a) Ice b) Liquid carbon dioxide c) Liquid oxygen d) Liquid nitrogen

152. Respiratory substrates are the organic substances which are _____ during respiration to liberate energy.
a) oxidised b) reduced c) synthesised d) both (a) and (b)

153. Which of the following is an energy dependent process?
a) Facilitated diffusion b) Active transport c) Endosmosis d) Exosmosis

154. Which organism is held responsible for causing root-Knots in food and fibre crops especially tobacco?
a) Caenorhabditis elegans b) Meloidegyne incognita c) Nicotiana tobaccum d) Ascaris

155. Read the following statements carefully and select the correct ones.
(i) Cardiac fibres are branched with one or more nuclei
(ii) Smooth muscles are unbranched and cylindrical
(iii) Skeletal muscles can be branched or unbranched
(iv) Smooth muscles are non-striated
a) only (iv) b) (ii) and (iii) c) (iii) and (iv) d) only (iii)

156. Blue-baby syndrome is due to the
a) As b) NO_3 c) Cd d) Hg

157. Embryo sac is to ovule as_____ is to an anther.
a) stamen b) filament c) pollen grain d) androecium

158. Who proposed the name sarcode for protoplasm?
a) Von mohl b) Corti c) Dujardin d) Schultz

159. In albuminous seeds, food is stored in _____ and in nonalbuminous seeds, it is stored in _____.
a) endosperm, cotyledon b) cotyledons, endosperm c) nucellus, cotyledons d) endosperm, radicle

160. Match column I with column II and select the correct option from the given codes.

	Column I		Column II
A.	Griffith	(i)	Lac operon

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	Column I		Column II
B.	Hershey and Chase	(ii)	Semi-conservative DNA replication
C.	Meselson and Stahl	(iii)	Transduction
D.	Jacob and Monod	(iv)	Transformation

a) A-(iv), B-(iii). C-(ii), D-(i) b) A-(iii), B-(iv), C-(ii), D-(i) c) A-(iv), B-(ii), C-(iii), D-(i)
d) A-(ii), B-(i), C-(iii), D-(iv)

161. Carrier ions like Na+ facilitate the absorption of substances like:
a) amino acids and glucose b) glucose and fatty acid c) fatty acids and glycerol
d) fructose and some amino acids

162. Balbiani rings (puffs) are sites of _____ .
a) DNA replication b) RNA and protein synthesis c) Synthesis of polysaccharides d) Synthesis of lipids

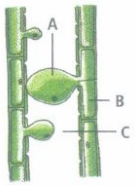
163. The term 'auxin precursor' refers to
a) raw material used in the synthesis of auxin b) compound which inhibits the action of auxin
c) artificially synthesised auxin d) active form of auxin.

164. What is common to the following plants: Nepenthes, Psilotum, Rauwolfia and Aconitum?
a) All are ornamental plants b) All are phylogenic link species c) All are prone to over exploitation.
d) All are exclusively present in the Eastern Himalayas

165. Which of the following cannot fix nitrogen?
a) Nostoc b) Azotobacter c) Spirogyra d) Anabaena

166. Which one of the following pollination is autogamous?
a) Cleistogamy b) Suspensor c) Egg d) Synergid

167. Identify the given figure and select the correct labels for A, B and C.



a)

A	B	C
Callose	Xylem parenchyma	Xylem vessel

b)

A	B	C
Callose	Phloem parenchyma	Phloem vessel

c)

A	B	C
Tylosis	Xylem parenchyma	Xylem vessel

d)

A	B	C
Tylosis	Phloem parenchyma	Phloem vessel

168. In the following question, a statement of assertion is followed by a statement of reason. Mark the correct choice as :
Assertion: Plants have no specialised respiratory organs.
Reason: There is very little transport of gases from one plant part to another
a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

169. Apical dominance in dicot plants is due to the presence of more _____ in the apical bud than in the lateral ones.
a) auxins b) cytokinins c) gibberellins d) ethylene

170. Peat Moss is used as a packing material for sending flowers and live plants to distant places because _____ .
a) it is hygroscopic. b) it reduces transpiration. c) it serves as a disinfectant. d) it is easily available.

171. Match column I with column II and select the correct option from the codes given below.

Column I	Column II

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A. TV + ERV	(i) Expiratory capacity
B. RV + ERV + TV + IRV	(ii) Total lung capacity
C. ERV + RV	(iii) Functional residual capacity

a) A-(i), B-(ii), C-(iii) b) A-(iii), B-(i), C-(ii) c) A-(iii), B-(ii), C-(i) d) A-(ii), B-(iii), C-(i)

172. During expiration, the diaphragm becomes
a) dome-shaped b) oblique c) concave d) flattened.

173. A gene showing codominance has:
a) both alleles independently expressed in the heterozygote b) one allele dominant on the other
c) alleles tightly linked on the same chromosome d) alleles that are recessive to each other

174. For its activity, carboxypeptidase requires formed during an enzymatic reaction is:
a) Nitaccin b) Copper c) zinc d) Iron

175. Which of the following statements is incorrect regarding the Calvin cycle of C_3 plants?
a) First stable product of Calvin cycle in C_3 plants is 3-Phosphoglyceric acid.
b) Sunflower is an example of C_3 plants. c) Calvin cycleoccurs in bundle sheath cells of C_3 plants.
d) Enzyme PEPcase is absent in C_3 plants.

176. Development of male gametophyte is
a) Both b) In-vitro c) Invivo d) Insitu

177. The lymph serves to____
a) transport oxygen to the brain b) transport carbon dioxide to the lungs
c) return the interstitial fluid to the blood d) return the WBCs and RBCs to the lymph nodes

178. Which of the following cannot serve as a vegetative propagule?
a) A piece of potato tuber with eyes b) A middle piece of sugarcane internode c) A piece of ginger rhizome
d) A marginal piece of Bryophyllum lea

179. Which of the following structures are haploid in gymnosperms?
a) Pollen grain, megaspore, embryo b) Pollen grain, megaspore, endosperm c) Megaspore, leaf, root
d) Leaf, root, integument

180. Read the following statements and select the correct option.
Statement 1 : Anatomically, all the tissues present on the inner side of endodermis such as pericycle, vascular bundles and pith constitute the stele.
Statement 2: Eustele is the stele in which vascular bundles are arranged in the form of a ring as present in dicot stems
a) Both statements 1 and 2 are correct. b) Statement 1 is correct but statement 2 is incorrect.
c) Statement 1 is incorrect but statement 2 is correct. d) Both statements 1 and 2 are incorrect.

181. "Human population grows in geometric ratio while food materials increase in arithmetic proportion." It is a statement from
a) Darwin b) Bateson c) Amartya Sen d) Malthus

182. The biggest constraint of plant breeding is
a) availability of desirable gene in the crop and its wild relatives b) infrastructure c) trained manpower
d) transfer of genes from unrelated sources.

183. Multiple alleles control inheritance of____
a) phenyl ketonuria b) colour blindness c) sickle-cell anaemia d) blood groups

184. The back flow of faecal matter from the large intestine into the small intestine is prevented by the presence of
a) epiglottis b) sphincter of Oddi c) ileo-caecal valve d) gastro-oesophageal sphincter.

185. Strobilanthus kunthiana
a) Flowers once in 12 months b) Has blue flowers found in plains of Gujarat and Karnataka
c) Last flowered in September-October 2006 d) Is annual plant with the presence of recovery phase

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186. Read the given statements and select the correct option.
Statement 1: Decomposition is the physical and chemical breakdown of complex organic matter into simple inorganic substances.
Statement 2: Humification is the process of formation of humus from detritus or organic remains.
a) Both statements 1 and 2 are correct. b) Statement 1 is correct but statement 2 is incorrect.
c) Statement 1 is incorrect but statement 2 is correct. d) Both statements 1 and 2 are incorrect.

187. Rate of heartbeat is determined by
a) Purkinje fibres b) papillary muscles c) AV-node d) SA-node.

188. Size of clay particles is
a) Between 0.00002-0.02 mm b) Less than 0.002 mm c) 0.5-1.0 mm d) 0.02-0.2 mm

189. Oil reserve of groundnut is present in _____ .
a) Embryo b) Cotyledons c) Endosperm d) Underground tubers

190. Read the given paragraph. In the resting state, the axonal membrane is (i) with more (ii) charged ions outside than inside. This unequal distribution of ions is due to (1) the selective permeability of the membrane, which forms an almost impenetrable barrier to (iii) and (2) the action of the (iv), which pumps (v) Na^+ out of the neuron for every (vi) K^+ brought in.
Select the option that correctly fills the blanks in the paragraph.

a)

(i)	(ii)	(iii)	(iv)	(v)	(vi)
depolarised	positively	Na^+	sodium-potassium pump	three	two

b)

(i)	(ii)	(iii)	(iv)	(v)	(vi)
depolarised	negatively	Na^+	sodium-potassium pump	three	two

c)

(i)	(ii)	(iii)	(iv)	(v)	(vi)
polarised	negatively	Na^+	sodium-potassium pump	three	two

d)

(i)	(ii)	(iii)	(iv)	(v)	(vi)
polarised	positively	Na^+	sodium-potassium pump	three	two

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191. In the following question, a statement of assertion is followed by a statement of reason. Mark the correct choice as :
Assertion: Oxidation of one molecule of NADH gives rise to 3 molecules of ATP and that of one molecule of $FADH_2$ produces 2 molecules of ATP.
Reason: The number of ATP molecules synthesised depends on the nature of the electron donor.
a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion
c) If assertion is true but reason is false d) If both assertion and reason are false

192. Mother and father of a person with 'O' blood group have 'A' and 'B' blood group respectively. What would be the genotype of both mother and father?
a) Mother is homozygous for 'A' blood group and father is heterozygous for 'B'.
b) Mother is heterozygous for 'A' blood group and father is homozygous for 'B'.
c) Both mother and father are heterozygous for 'A' and 'B' blood group, respectively.
d) Both mother and father are homozygous for 'A' and 'B' blood group, respectively.

193. To determine the genotype of a tall plant of F_2 generation, Mendel crossed this plant with a dwarf plant. This cross represents a
a) test cross b) back cross c) reciprocal cross d) dihybrid cross

194. Which is the most common mechanism of genetic variation in the population of sexually reproducing organism?
a) Chromosomal aberrations b) Genetic drift c) Recombination d) Transduction

195. Which of the following anterior pituitary hormones is linked directly to body whereas other hormones mostly control other glands?
a) Somatotropin b) Somatocrinin c) Somatostain d) Pitocin

196. Which of the following statements is not conect?
a) Goblet cells are present in the mucosa of intestine and secrete mucus
b) Oxyntic cells are present in the mucosa of stomach and secrete HCl
c) Acini are present in the pancreas and secrete carboxypeptidase
d) Brunner's glands are present in the submucosa of stomach and secrete pepsinogen

197. Out of 38 ATP molecules produced per glucose, 32 ATP molecules are formed from NADH/$FADH_2$ in _____ .
a) respiratory chain b) Krebs'cycle c) oxidative decarboxylation d) EMP

198. In transcription in eukaryotes, heterogenous nuclear RNA (hnRNA) is transcribed by
a) RNA polymerase I b) RNA polymerase II c) RNA polymerase III d) all of these

199. Aestivation in the corolla of pisum sativum is
a) Imbricate b) Vexillary c) Quincuncial d) Valvate

200. The factors which include the form, surface and behaviour of the earth with special reference to slopes, mountains, valleys etc. are called
a) Edaphic factor b) Biotic factors c) Climatic factors d) Topographic factors

201. Protein helping in opening of DNA double helix in front of replications fork is____
a) DNA gyrase b) DNA polymerase-I c) DNA ligase d) topoisomeras

202. Monocotyledonous seeds possess a single cotyledon which is represented by
a) scutellum b) aleurone c) tegmen d) endosperm

203. Which one of the following poultry birds is not an English breed?
a) Sussex b) Australorp c) Orpington d) Minorca

204. Modern detergents contain enzyme preparations of _____.
a) Acidophiles b) Alkaliphiles c) Thermoacidophiles d) Thermophiles

205. A plasmolysed cell can be deplasmolysed by placing it in
a) pure water or hypotonic solution b) hypertonic solution c) isotonic solution d) saturated solution.

206. Growth in plants is
a) both determinate and indeterminate b) only determinate c) only indeterminate d) mostly determinate

207. Fill up the blanks in the following paragraph by selecting the correct option.
When migration of a section of population to another place and population occurs, ____(i)____ change in the original as well as in the new population. New genes/alleles are added to the ____(ii)____ population and these are lost from the ____(iii)____population. There would be a ____(iv)____if this gene migration, happens multiple times. If the same change occurs by chance, it is called____(v)___. Sometimes the change in allele frequency is so different in the new sample of population that they become a different species. The original drifted population becomes founders and the effect is called ____(vi)____.

a)

i	ii	iii	iv	v	vi
natural selection	new	old	gene flow	gene frequencies	founder effect

b)

i	ii	iii	iv	v	vi
gene frequencies	old	new	natural selection	gene flow	bottle neck effect

c)

i	ii	iii	iv	v	vi
gene frequencies	new	old	gene flow	genetic drift	founder effect

d)

i	ii	iii	iv	v	vi
mutations	old	new	natural selection	gene flow	bottle neck effect

208. Translation refers to the process of-
a) Polymerisation of nitrogen bases b) Polymerisation of nucleotides c) Polymerisation of nucleosides
d) Polymerisation of amino acids

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209. Which of the following not occurs in Anaphase - I
a) Segreation of homologous chromosomes b) Shortening in spindle
c) Poleward movement of chromosomes d) Division of centromere

210. The main difference between chlorophyll 'a' and 'b' is :
a) Chlorophyll 'a' is all a linear chain compound and 'b' is branched chain
b) Chlorophyll 'a' has no Mg^+ ion in center of molecule
c) In chlorophyll 'a' there is $-CH_3$ group whereas in 'b' it i -CHO group d) All of the above

211. Select the correct statement regarding the specific disorder of muscular or skeletal system _____ .
a) Muscular dystrophy - age related shortening or muscles.
b) Osteoporosis - decrease in bone mass and higher chance of fractures with advancing age.
c) Myasthenia gravis - Auto immune disorder which inhibits sliding of myosin filaments.
d) Gout - inflammation of joints due to extra deposition of calcium.

212. Resistance to jassids in cotton plants and to cereal leaf beetle in wheat plants is due to
a) biochemical characters b) physiological characters c) morphological characters d) none of these

213. The hormone responsible for apical dominance is_____
a) IAA b) GA c) ABA d) florigen

214. Transformation experiment was first performed on which bacteria?
a) E.coli b) Diplococcus pneumoniae c) Salmonella d) Pasteurella pestis

215. In the base sequence of one strand of DNA is GAT, TAG, CAT, GAC what shall be the sequence of its complementary strand:
a) CAT, CTG, ATC, GTA b) GTA, ATC, CTG, GTA c) ATC, GTA, CTG, GTA d) CTA, ATC, GTA, CTG

216. The number of 'ends' in a glycogen molecule would be
a) equal to the number of branches plus one b) equal to the number of branch points c) one
d) two, one on the left side and another on the right side

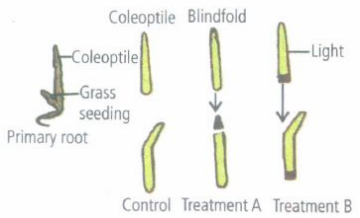
217. Malaria fever coincides with liberation of _____ .
a) Cryptomerozoites b) Metacryptomerozoites c) Merozoites d) Trophozoites

218. The correct sequence of phases of cell cycle is _____ .
a) $G_1 \rightarrow G_2 \rightarrow S \rightarrow M$ b) $S \rightarrow G_1 \rightarrow G_2 \rightarrow M$ c) $G_1 \rightarrow S \rightarrow G_2 \rightarrow M$ d) $M \rightarrow G_1 \rightarrow G_2 \rightarrow S$

219. Thymine is-
a) 5-Methyl uracil b) 4-Methyl uracil c) 3-Methyl uracil d) 1-Methyl uracil

220. Which of the following statements is not correct regarding inbreeding?
a) It is the breeding between animals of the same breed. b) It decreases homozygosity.
c) It exposes harmful recessive genes. d) It helps in accumulation of superior genes.

221. Charles Darwin and his son, Francis experimented with phototropism of grass seedlings by placing a metal foil blindfold over different parts of the seedling's coleoptile. A simplified version of their results is shown below. Which of the following statements best explains their results?



a)
The light signal is perceived a few millimetres below the tip, and these cells cause the coleoptiie to grow toward the light.
b) Both the seedling root and coleoptile perceive and respond to light in the same manner

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c) A chemical messenger must travel from the base of the coleoptile to the tip.
d)
The light signal is perceived at the tip of the coleoptile, but the growth response occurs a few millimetres below the tip.

222. Read the given statements carefully.
(i) Innate immunity is a specific type of defence, that is present at the time of birth.
(ii) Malignant malaria is caused by Plasmodium falciparum.
(iii) Malaria could be confirmed by Widal test.
(iv) Active immunity is slow and takes time to give its full effective response.
(v) Saliva in the mouth acts as physiological barrier for pathogens.
Which of the above statements are correct?
a) (ii), (iv) and (v) b) (i) and (iii) c) (i) and (v) d) (ii), (iii) and (v)

223. In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as :
Assertion: Trypsinogen is activated by enterokinase into active trypsin which in turn activates other enzymes in the pancreatic juice.
Reason: The pancreatic juice contains inactive enzymes which are activated by intestinal juice.
a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion
c) If assertion is true but reason is false. d) If both assertion and reason are false.

224. In a life table, the number of individuals alive at the beginning of the 1st year to 2nd year interval is 800. During this interval, 200 individuals die. The death rate for this interval is
a) 0.25 b) 200 c) 800 d) 0.2

225. Match column I with column II and select the correct option from the given codes

Column I (Sphincter)	**Column II (Location)**
A.Peptic cells s	(i) Mucus
B.Oxyntic cells	(ii) Alkaline fluid
C. Goblet cells	(iii) Pro-enzymes
	(iv) HCl

a) A-(ii), B-(i), C-(iv) b) A-(iv), B-(iii), C-(ii) c) A-(iv), B-(i), C-(ii) d) A-(iii), B-(iv), C-(i)

226. Select the correct option describing gonadotropin activity in a normal pregnant female.
a) High level of FSH and LH stimulates the thickening of endometrium.
b) High level of FSH and LH facilitate implantation of the embryo
c) High level of hCG stimulates the synthesis of estrogen and progesterone
d) High level of hCG stimulates the thickening of endometrium

227. Which one of the following is a wrong statement?
a) Most of the forests have been lost in tropical areas.
b) Ozone in upper part of atmosphere is harmful to animals. c) Greenhouse effect is a natural phenomengn.
d) Eutrophication is anatural phenomenon in freshwater bodies

228. A group of individuals living in a particular geographical area at a particular time is called
a) Local population b) Deme c) Community d) Both (1) & (2)

229. Retroviruses are implicated as a cause for cancer in humans because they____
a) carry gene for reverse transcriptase b) may carry cellular protoncogenes in their genome
c) may carry v-oncogenes in their genome d) carry single stranded RNA as their genetic material

230. All genes located on the same chromosome
a) form different groups depending upon their relative distance b) form one linkage group
c) will not from any linkage groups d) form interactive groups that affect the phenotype.

231. **Assertion:** The body of hemichordates is divisible into proboscis, collar and trunk.
Reason: Proboscis gland helps in digestion.

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a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

232. Which of the microorganism is used for production of citric acid in industries?
a) Lactobacillus bulgaris b) Penicillium citrinum c) Aspergillus niger d) Rhizopus nigricans

233. Which of the following is a man made artificial ecosystem:
a) Grassland ecosystem b) Forest ecosystem c) Ecosystem of artificial lakes & dams d) None of these

234. A primary root grows from 5 cm to 19 cm in a week. Calculate the actual growth rate (AGR) and relative growth rate (RGR) over the period.

a)

AGR	RGR
14 cm	2.8

b)

AGR	RGR
14 cm	3.8

c)

AGR	RGR
3.8 cm	14

d)

AGR	RGR
24 cm	2.8

235. One of the important consequences of geographical isolation is:-
a) Random creation of new species b) No change in the isolated fauna c) Preventing Speciation
d) Speciation through reproductive isolation

236. Bud dormancy is induced by
a) IAA b) GA c) ABA d) ethylene.

237. Pleiotropic genes have
a) repressed phenotype b) hidden phenotype c) multiple phenotype d) all of these

238. Which of the following combination of risk are associated with genetically modified food:
a) Toxicity b) Allergic reaction c) Antibiotic resistance in microorganism present in alimentary canal
d) All the above

239. Out of 'X' pairs of ribs in humans only 'Y' pairs are true ribs. Select the option that correctly represent values of X and Y and provides their explanation.

a)

X = 12,Y = 7	True ribs are attached dorsally to vertebral column and ventrally to the sternum.

b)

X = 12,Y = 5	True ribs are attached dorsally to vertebral column and sternum on the two end.

c)

X = 24,Y = 7	True ribs are dorsal attached to vertebral column but are free on ventral side.

d)

X = 24,Y =.12	True ribs are dorsal attached to vertebral column but are free on ventral side.

240. Proximal and distal convoluted tubules are parts of____
a) seminiferous tubules b) nephron c) oviduct d) vas deferens

241. In class Phycomycetes the mycelium is:-
a) Coenocytic and aseptate b) Coenocytic and septate c) Uninucleate and aseptate
d) Multinucleate and septate

242. Read the following four statement (A-D) about certain mistakes in two of them.
(A) The first transgenic buffalo, Rosie produced milk which was human alpha- lactabumin enriched.
(B) Restriction enzymes are used in isolation of DNA form other macro molecules.
(C) Downstream processing is one of steps of R-DNA technology.
(D) Disarmed pathogen vectors are also used in transfer of R-DNA into the host.
Which are the two statement having mistakes?
a) Statement (A) and (B) b) Statement (B) and (C) c) Statement (C) and (D) d) Statement (A) and (C)

243. Match column I with column II and select the correct answer from the given codes

Column I	Column II
A. Ganga action plan	(i) N_2 fixing
B. Bt cotton	(ii) Ministry of environment and forests
C. Rhizobium	(iii) Insect resistant plant

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Column I	Column II
D. Nostoc	(iv) N_2 fixing bacterium

a) A-(ii), B-(iii), C-(iv), D-(i) b) A-(iii), B-(ii), C-(iv), D-(i) c) A-(ii), B-(iv), C-(iii), D-(i)
d) A-(i), B-(iii), C-(ii), D-(iv)

244. A sterile jacket around gametangia is found among
a) bryophytes b) lichens c) algae d) fungi.

245. Phenomenon of 'industrial melanism' demonstrates:
a) geographical isolation. b) reproductive isolation. c) natural selection. d) induced mutation.

246. High concentration of auxin is present in
a) root apex b) stem apex c) node d) petiole

247. Which organelle is not a part of the endomembrane system?
a) ER b) Golgi complex c) Lysosomes d) Mitochondria

248. Abscisic acid causes____
a) stomatal closure b) stem elongation c) leaf expansion d) root elongation

249. Gibberellins promote the formation of A flowers on genetically B plants in Cannabis whereas ethylene promotes formation of C flowers on genetically D Cannabis plants.

a)

A	B	C	D
male	female	female	male

b)

A	B	C	D
male	male	female	female

c)

A	B	C	D
female	male	male	female

d)

A	B	C	D
female	female	male	male

250. Consider following statements regarding microspheres.
(i) They were spherical in shape and 1-2 μμm in diameter.
(ii) They had concentric double-layered boundaries.
(iii) They could grow in size but were not able to reproduce.
(iv) They used ATP as source of energy.
Which of the above statements is/are incorrect?
a) (i) only b) (ii) only c) (iii) only d) none of these

251. Trichoderma harzianum has proved to be a useful microorganism for
a) gene transfer in higher plants b) biological control of soil-borne plant pathogens
c) bioremediation of contaminated soils d) reclamation of wastelands.

252. Read the following statements and select the correct option.
Statement 1 : The worm-like structure attached to the caecum at the beginning of the large intestine is known as vermiform appendix.
Statement 2 : Vermiform appendix has no apparent digestive function.
a) Both statements 1 and 2 are correct b) Statement 1 is correct but statement 2 is incorrect.
c) Statement 1 is incorrect but statement 2 is correct d) Both statements 1 and 2 are incorrect

253. The primary succession refers to the development of communities on a _____.
a) fleshly cleared crop field b) forest clearing after devastating fire
c) pond, freshly filled with water after a dry phase
d) newly-exposed habitat with no record of earlier vegetation

254. Which one of the following ions is essential for photolysis of water?
a) Manganese b) Zinc c) Copper d) Boron

255. The macronutrient _____ is a component of all organic compounds but is not obtained from soil.
a) carbon b) hydrogen c) oxygen d) nitrogen

256. Which one of the following groups of animals is correctly matched with its characteristic feature without any exception?
a) Reptilia: possess 3-chambered heart with an incompletely divided ventricle.
b) Chordata: possess a mouth with an upper and a lower jaw
c) Chondrichthyes: possess cartilaginous endoskeleton. d) Mammalia: give birth to young ones.

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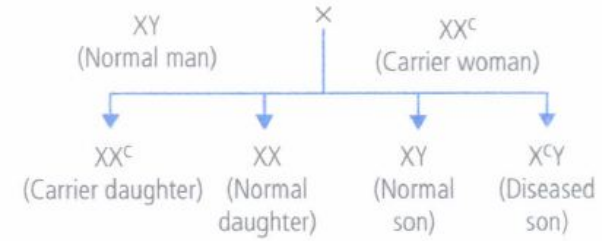
257. Inheritance of which of the following traits is shown in the given cross?



a) X-linked dominant trait b) X-linked recessive trait c) Autosomal recessive trait
d) Autosomal dominant trait

258. All veins carry deoxygenated blood except
a) pulmonary vein b) hepatic vein c) hepatic portal vein d) renal vein.

259. Which of the following is required for micro-injection method of gene transfer?
a) Micro-particles b) Micro-pipettes c) Divalent cations d) UV radiations

260. The main reason why antibiotics could not always treat the bacteria-mediated diseases is
a) insensitivity of the individual following prolonged exposure to antibiotics
b) inactivation of antibiotics by bacterial enzymes c) decreased efficiency of immune system
d) the development of mutant bacterial strains resistant to antibiotics

261. Root hairs develop from the region of:
a) Maturation b) Elongation c) Root cap d) Meristematic activity

262. The initial step in the digestion of milk in humans is carried out by_____
a) Lipase b) Trypsin c) Rennin d) Pepsin

263. Which of the following statements are correct about heartwood?
(i) It does not help in water conduction.
(ii) It is also called alburnum.
(iii) It is light in colour and is very soft.
(iv) It has tracheary elements which are filled with tannins, resins, ete.
a) (ii) and (iv) b) (i), (ii) and (iii) c) (ii), (iii) and (iv) d) (i) and (iv)

264. The following ie required both by the process of respirtion and photosynthesis
a) Carbohydrates b) Sunlight c) Chlorophyll d) Cytochromes

265. The disease related with deficiency of molybdenum Is;
a) Whiptail disease of cauliflower b) Little leaf disease c) Reclamation disease of cereals
d) Brown heart disease

266. Which of the following stains is not used for staining chromosomes?
a) Basic Fuchsin b) Safranin c) Methylene green d) Carmine

267. In meiosis crossing over is initiated at :-
a) Pachytene b) Leptotene c) Zygotene d) Dipotene

268. Multicellular branched rhizoicls and leaf gametophytes are characteristics of _____ .
a) all bryophytes b) some bryophytes c) all pteridophytes d) some pteridophytes

269. Where do certain symbiotic microorganisms normally occur in human body?
a) Caecum b) Oral lining and tongue surface c) Vermiform appendix and rectum d) Duodenum

270. Study the following table which shows different organisms with their taxonomic categories.

Common name	Family	Order	Class	Phylum/Division
Man	Hominidae	Primata	Mammalia	**A**
Housefly	Muscidae	Diptera	**B**	Arthropoda
Mango	**C**	Sapindales	Dicotyledonae	Angiospermae
Wheat	Poaceae	Poales	**D**	Angiospermae

Select the correct option for A, B, C and D.

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a)

A	B	C	D
Chordata	Insecta	Anacardiaceae	Monocotyledonae

b)

A	B	C	D
Animalia	Arachnida	Anacardiaceae	Monocotyledonae

c)

A	B	C	D
Chordata	Arachnida	Polygonaceae	Monocotyledonae

d)

A	B	C	D
Non-chordata	Insecta	Anacardiaceae	Dicotyledonae

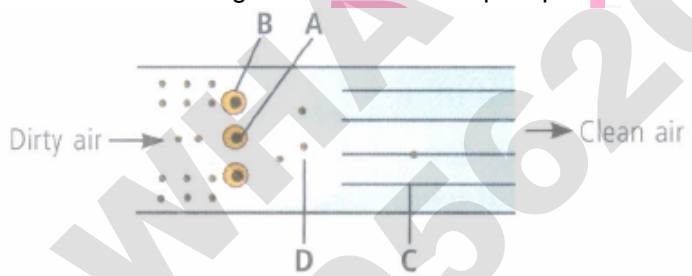
271. Read the following statements with one or two blanks in each one of them.
(i) A genus containing more than one species is called _____ genus, e.g., _____
(ii) _____ is a collection of dried, pressed and preserved plants mounted on _____ sheets, properly labelled, systematically arranged and available for reference study.
(iii) Living fossils are ancient organisms persisting in modern times _____ gradual morphological changes.
(iv) A_____ is comprehensive treatise of a taxonomic group, generally, a genus or a family, providing all taxonomic data related to that group.
Which of the following correctly fills any two of the above statements?
a) (i) monotypic, **Homo**; (ii) Herbarium, paper b) (ii) Manual, paper; (iii) with c) (iii) without; (iv) Monograph
d) (i) polytypic, **Solanum**; (iv) Monograph

272. Systemic heart refers to____
a) the two ventricles together in humans b) the heart that contracts under stimulation from nervous system
c) left auricle and left ventricle in higher vertebrates d) entire heart in lower vertebrates

273. In turmeric, stem is a
a) Tuber b) Bulb c) Rhizome d) Corm

274. What is the source of the Ti (Tumor inducing) plasmid which is modified and used as a cloning vector to deliver desirable genes into plants cells?
a) Agrobacterium tumifaciens b) Thermophilus aquaticus c) Pyrococcus furiosus d) Aedes aegypti

275. Given below is a diagram of electrostatic precipitator. Identify A, B, C and D and select the correct option.



a)

A	B	C	D
Negatively charged wire	Negatively charged dust particles	Discharge corona	Collection plate

b)

A	B	C	D
Negatively charged wire	Discharge corona	Collection plate	Negatively charged dust particles

c)

A	B	C	D
Positively charged wire	Positively charged dust particles	Discharge corona	Collection plate

d)

A	B	C	D
Positively charged wire	Discharge corona	Collection plate	Positively charged dust particles

276. **Assertion:** Light is essential in poultry farm management.
Reason: 14-16 hours of light including daylight is required for optimum production of eggs.
a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

277. Probes are constructed from short segment of

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a) ss DNA attached with radioactive marker b) ds DNA attached with radioactive marker
c) Hn RNA attached with fluorescent marker d) ds RNA attached with fluorescent marker

278. Which of the following hormones is not secreted by anterior pituitary?
a) Growth hormone b) Follicle stimulating hormone c) Oxytocin d) Adrenocorticotrophic hormone

279. A sex gland which contributes fluid containing sugar fructose that provides spermatozoa energy for swimming and hormone prostaglandins that stimulate contractions in the female reproductive tract to aid sperm-ovum interaction is
a) Cowper's gland b) prostate gland c) seminal vesicle d) preputial gland

280. Read the following statements and select the correct option.
Statement 1: Reproduction cannot be considered as defining property of living organisms.
Statement 2: There are many living organisms which do not reproduce, e.g., mules, worker bees, etc.
a) Statement 1 is incorrect but statement 2 is correct b) Both statements 1 and 2 are incorrect
c) Both statements 1 and 2 are correct d) Statement 1 is correct but statement 2 is incorrect.

281. Respiratory process is regulated by certain specialised centres in the brain. One of the following listed centres can reduce the inspiratory duration upon stimulation.
a) Medullary inspiratory centre b) Pneumotaxic centre c) Apneustic centre d) Chemosensitive centre

282. Select the incorrect statement_____
a) In male grasshoppers 50 % of sperms have no sex-chromosome
b) In domesticated fowls, sex of progeny. depends on the type of sperm rather than egg
c) Human males have one of their sexchromosome much shorter than the other
d) Male fruit fly is heterogametic.

283. An important evidence in favour of organic evolution is the occurrence of____
a) Analogous and vestigial organs b) Homologous organs only c) Homologous and analogous organs
d) Homologous and vestigial organs

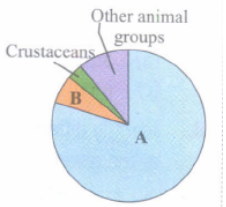
284. A nucleoside differs from a nucleotide is not having
a) Phosphate b) Sugar c) Phosphate & sugar d) Nitrogen base

285. The apical meristem of the root is present _____ .
a) In all the roots b) Only in radicals c) Only in tap roots d) Only in adventitious roots

286. The principal nitrogenous excretory compound in humans is synthesised___
a) in kidneys but eliminated mostly through liver b) in kidneys as well as eliminated by kidneys
c) in liver and also eliminated by the same through bile d) in the liver, but eliminated mostly through kidneys

287. A baby boy aged two years is admitted to play school and passes through a dental check - up The dentist observed that the boy had twenty teeth. which teeth were absent?
a) canines b) pre-molars c) Molars d) Incisors

288. Given pie diagram represents the proportionate number of species of major groups of invertebrates. Identify the groups A and B



a) A = Insects, B = Molluscs b) A = Molluscs, B = Insects c) A = Insects, B = Annelids
d) A = Molluscs, B = Annelids

289. Read the following four statements (i) to (iv) with certain mistakes in two of them.
(i) Fructose is generally absorbed by simple diffusion.
(ii) The digestive wastes, solidified into coherent faeces in the rectum initiate an endocrinal action causing an urge or desire for its removal.
(iii) The food mixes thoroughly with the acidic gastric juice of the stomach by the churning movements of its muscular wall and is called the chyme.

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(iv) The secretions of the brush border cells of the mucosa along with the secretions of the goblet cells constitute the succus entericus.

Which of the above two statements have mistakes

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

290. One of the following is not a common disorder associated with digestive system.

a) Tetanus b) Diarrhoea c) Jaundice d) Dysentery

291. Genes for cytoplasmic male sterility in plants are generally located in _____ .

a) cytosol b) chloroplast genome c) mitochondrial genome d) nuclear genome

292. **Assertion:** Tendons attach one bone to another bone.

Reason: Ligaments attach skeletal muscles to bones.

a) If both assertion and reason are true and reason is the correct explanation of assertion.

b) If both assertion and reason are true but reason is not the correct explanation of assertion.

c) If assertion is true but reason is false. d) If both assertion and reason are false.

293. Match column I with column " and select the correct option from the given codes.

	Column I		Column II
A.	Cyclostomes	(i)	Hemichordata
B.	Aves	(ii)	Urochordata
C.	Tunicates	(iii)	Agnatha
D.	Balanoglossus	(iv)	Pisces
E.	Osteichthyes	(v)	Tetrapod

a) A-(i), B-(ii), C-(iii), D-(iv), E-(v) b) A-(ii), B-(iii), C-(iv), D-(i), E-(v) c) A-(iii), B-(v), C-(ii), D-(i), E-(iv)

d) A-(iii), B-(i), C-(v), D-(ii), E-(iv)

294. Genetic drift operates in :

a) Non- reproductive population b) slow reproductive population c) Small isolated population

d) Large isolated population

295. Which part of poppy plant is used to obtain the drug Smack?

a) Roots b) Latex c) Flowers d) Leaves

296. Spindle fibres attach on to :-

a) Telomere of the chromosome b) Kinetochore of the chromosome c) Centromere of the chromosome

d) Kinetosome of the chromosome

297. Which of the following set represents micronutrients?

a) B, Ni, Mo, Mn, Fe b) B, N, Mo, Mn, P c) S, Ca, B, Mo, Fe d) N, Mo, Mn, K, Mg

298. If map distance between genes P and Q is 4 units, between P and R is 11 units, and between Q and R is 7 units, the order of genes on the linkage map can be traced as follows.

a)

b)

c)

d)

299. Which one of the following is the correct matching of the site of action on the given substrate, the enzyme acting upon it and the end product?

a) Duodenum: Triglycerides Monoglycerides b) Small intestine: Starch Disaccharide (Maltose)

c) Small intestine; Proteins Amino acids d) Stomach: Fats Micelles

300. Which of the following is not a tool of genetic engineering?

a) Cloning vector b) Restriction enzyme c) Foreign DNA d) GMO

301. DNA synthesis can be specifically measured by estimating the incorporation of radio labelled,

a) Uracil b) Adenine c) Thymidine d) Deoxyribose sugar

302. A major characteristic of the mono cot root is the presence of:

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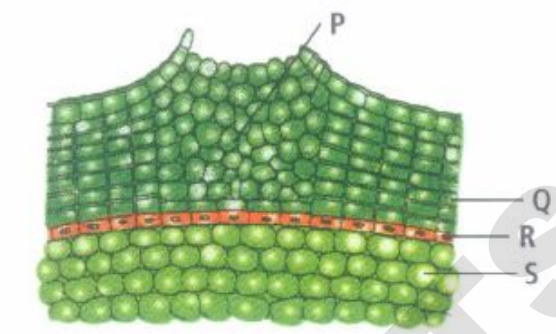
a) Cambium sandwiched between phloem and xylem along the radius b) Open vascular bundles
c) Scattered vascular bundles d) Vasculature without cambium

303. The sensory receptors that respond to sound, develop receptor potentials when their:
a) hair are bent b) pigments absorb pressure c) surface proteins are altered by a change in pH
d) sodium-potassium pumps become deactivated.

304. Select the incorrect pair out of the following
a) Monadelphous - Hibiscus b) Diadelphous - Cucurbita c) Polyadelphous - Citrus
d) Syngenesious - Helianthus

305. Assertion: Asexual reproduction involves formation of clones of an organism
Reason : Clones are morphologically and genetically similar individuals.
a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion
c) If assertion is true but reason is false d) If both assertion and reason are false

306. The given transverse section of stem showing periderm, identify the parts labelled P, Q, R, S and select the correct option.



a)

P	Q	R	S
Complementary cells	Cork	Phellogen	Phelloderm

b)

P	Q	R	S
Complementary cells	Cork	Phelloderm	Phellogen

c)

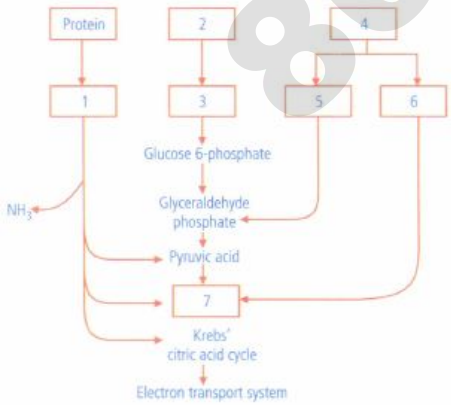
P	Q	R	S
Lenticels	Phelloderm	Phellogen	Cork

d)

P	Q	R	S
Complementary cells	Phelloderm	Phellogen	Phelloderm

307. Which is sweet in taste, but is not a sugar?
a) Starch b) Saccharine c) Lactose d) Protein

308. Refer to the following flow chart representing the cellular respiration and its fuels. Blanks 1, 2, 3, 4, 5, 6 and 7 are respectively



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a) amino acids, carbohydrate, glucose, fats, glycerol, fatty acid, acetyl Co-A
b) fats, acetyl Co-A, amino acid, fatty acid, carbohydrate, glycerol, glucose
c) fatty acid, glucose, acetyl Co-A, glycerol, fats, carbohydrate, amino acid
d) carbohydrate, fats, glycerol, fatty acids, amino acid, glucose, acetyl Co-A.

309. Meristem culture is the culture of
a) axillary or apical shoot meristems b) anthers c) plant seeds d) young embryos.

310. Which of the following is required as inducers) for the expression of lac operon?

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a) Glucose b) Galactose c) Lactose d) Lactose and galactose

311. Which is not a control measure to reduce particulate matter in environment?
a) Cyclonic separators b) Scrubbers c) Effluent treatment d) Electrostatic precipitator

312. The hormone, which is related to the urine concentration in mammals, is
a) antidiuretic hormone b) testosterone c) oxytocin d) all of these

313. Typhoid fever is caused by_____ .
a) Giardia b) Salmonella c) Shigella d) Escherichia

314. Which of the following is under the direct control of neurosecretory cells?
a) Pars distalis and pars intermedia b) Pars intermedia and pars nervosa c) Pars nervosa only
d) Pars distalis only

315. In Pinus/Cycas/gymnosperms, the endosperm is _____ .
a) triploid b) haploid c) diploid d) tetraploid

316. Brain depends on blood for the supply of
a) ATP and glucose b) oxygen and ATP c) oxygen and glucose d) oxygen and glucose

317. Which one of the following techniques made it possible to genetically engineer living organism?
a) Hybridization b) Recombinant DNA techniques c) X- ray diffration d) Heavier isotope labelling

318. In pteridophyta, reduction division occurs when:-
a) Prothallus is formed b) Spores are formed c) Sex organs are formed d) Gametes are formed

319. Tetradyanamous conditions occur in
a) Cruciferae b) Malvaceae c) Solonaceae d) Liliaceae

320. In which of the following hormone works from outside the cell?
a) Estrogen b) Cortisol c) Insulin d) Thyroxine

321. Bryophytes comprise _____ .
a) Sporophyte of longer duration b) Dominant phase of sporophyte which is parasitic
c) Dominant phase of gametophyte which produces spores
d) Small sporophyte phase generally parasitic on gametophyte

322. Which of the following statements is correct regarding sexual reproduction in Basidiomycetes?
a) Plasmogamy occurs by the fusion of two somatic cells of different strains.
b) Karyogamy and meiosis occur in the basidium producing four basidiospores
c) Basidiospores are exogenously produced on the basidium. d) All of these

323. Refer to the given statements and select the correct ones.
(i) Fossils are remains of hard parts of life forms in rocks.
(ii) Dinosaurs disappeared about 65 mya.
(iii) Animals called lobe fins evolved into reptiles.
(iv) Study of fossils is called palaentology.
a) (i), (ii) and (iv) b) (ii) and (iv) c) (i), (iii) and (iv) d) None of these

324. **Assertion:** Darwin's finches of Galapagos islands have different types of modified beaks according to their food habits.
Reason: Adaptive radiation, leads to development of different functional structure from a common ancestral form.
a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

325. Assertion : In a microsporangium, the tapetal cells possess little cytoplasm and generally have a single prominent nucleus.
Reason : During microsporogenesis, the microspore mother cells (MMCs) undergo mitotic divisions to produce haploid microspore tetrads.

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a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false d) If both assertion and reason are false

326. Which of the following statements is/are correct?
a) The current interest in the manipulation of microbes, plants and animals has raised serious ethical issues
b) One possible risk of genetic engineering is the accidental production of antibiotic resistant microorganisms
c) Although risks are possible, genetic engineering offers more of a contribution to human welfare than threats
d) All of these

327. Stems modified into flat green organs performing the functions of leaves are known as:
a) Scales b) Cladodes c) Phyllodes d) Phylloclades

328. All the following are objectives of dairy farm manaqernent, except
a) Improvement in quality of milk b) Selection of good breeds having high yielding potential
c) Selection of breeds which are vulnerable to diseases d) Maintenance of quality and quantity of fodder

329. Which one of the following is not a living fossil?
a) Sphenodon b) Archaeopteryx c) Peripatus d) King crab

330. **Assertion:** Saheli, the new oral contraceptive for the females contains a steroidal preparation.
Reason: 'Saheli' is taken daily without a break.
a) If both assertion and reason are true and reason is the correct explanation of assertion
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

331. Many animals use the diurnal and seasonal variations in light intensity and photoperiod to time their
a) migration b) reproductive activities c) suspension d) all of these

332. Which of the following is a free living aerobic non-photosynthetic nitrogen fixer?
a) Rhizobium b) Azotobacter c) Azospirillum d) Nostoc

333. Genetic drift operates only in_____
a) smaller populations b) larger populations c) Mendelian populations d) island populations

334. The concept of "Omnis cellula-e cellula" regarding cell division was first proposed by _____ .
a) Theodore Schwann b) Schleiden c) Aristotle d) Rudolf Virchow

335. Characteristics of a terrestrial biome are strongly influenced by its
a) fauna b) all of these c) flora d) climate

336. **Assertion:** Cats and dogs have some similarities.
Reason: Cats and dogs belong to the same Family Canidae.
a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false.

337. The exponential growth can be mathematically expressed as
a) $L_t=L_0+rt$ b) $W_1=W_0+e^{rt}$ c) $W_1=W_0e^{rt}$ d) $L_t=L_0-rt$

338. An organised and differentiated cellular structure having cytoplasm but no nucleus is _____ .
a) Vessels b) Xylem parenchyma c) Sieve tubes d) Tracheids

339. **Assertion:** Turner's syndrome is caused due to absence of anyone of the X and Y sex chromosome.
Reason: Such individuals show masculine as well as feminine development
a) If both assertion and reason are true and reason is the correct explanation of assertion.
b) If both assertion and reason are true but reason is not the correct explanation of assertion.
c) If assertion is true but reason is false. d) If both assertion and reason are false

340. Holstein-Friesian, Brown Swiss and Jersey are all well known

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a) exotic breeds of cow b) exotic breeds of goat c) exotic breeds of poultry

d) animal husbandry scientists.

341. Match column I with column II and select the correct option from the given codes.

Column I	Column II
A. Edible delicacies	(i) Penicillium, Streptomyces
B. Experimental genetics	(ii) Neurospora crassa
C. Source of antibiotics	(iii) Puccinia, Ustilago
D. Rust and smut diseases	(iv) Morels and truffles

a) A-(iv), B-(ii), C-(iii), D-(i) b) A-(iii), B-(i), C-(ii), D-(iv) c) A-(iv), B-(ii), C-(i), D-(iii)
d) A-(iv), B-(iii), C-(ii), D-(i)

342. The joint of femur with pelvic girdle is
a) hinge joint b) non-movable joint c) pivot joint d) ball and socket joint

343. In angiosperms various stages of reductional division can best be studied in
a) young anthers b) mature anthers c) young ovules d) endosperm cells

344. Refer to the given flow chart.

Identify X and select the correct option
a) Communities b) Biospheres c) Biomes d) Species

345. Many attempts to improve livestock in the tropics have been made, mainly by 'upgrading' through crossbreeding them with temperate breeds. The major problems faced during the failed cattle breeding are
a)
the breeding programmes have been too complicated in terms of logistics, technology and requirements of resources without considering the infrastructure available.
b)
indiscriminate crossbreeding of indigenous breeds with exotic breeds without enough consideration of environmental conditions for production.
c)
lack of analysis of the different socio-economic and cultural roles that livestock play in each situation, usually leading to wrong breeding objectives and neglect of the potentials of various indigenous breeds of livestock.
d) All of these.

346. The term 'chimeric DNA' refers to:
a) DNA with overhanging stretches b) DNA with palindromic sequence c) a recombinant DNA
d) molecular scissors

347. Pick up the wrong statement.
a) Nuclear numbrane is present is Monera b) Cell wall is absent in Animalia
c) Protista have photosynthetic and heterotrophic modes of nutrition d) Some fungi are edible.

348. In which of the following pairs of parts of a flowering plant is epidermis absent?
a) Root tip and shoot tip b) Shoot bud and floral bud c) Ovule and seed d) Petiole and pedicel

349. Which of the following movement is not related to auxin level?
a) Bending of shoot towards light b) Movement of root towards soil c) Nyctinastic leaf movements
d) Movement of sunflower head tracking the sun

350. The purplish red pigment rhodopsin contained in the rods type of photo receptor cells of the human eye, is a derivative of _____
a) vitamin B b) vitamin C c) vitamin D d) vitamin A

351. Match column I with column II and select the correct option from the codes given below.

	Column I		Column II
A.	Dixon and Jolly	(i)	Root pressure
B.	Stomata	(ii)	Only water available to plants

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	Column I		Column II
C.	Manometer	(iii)	Transpiration
D.	Capillary water	(iv)	Transpiration pull
E.	Potometer	(v)	Rate of transpiration

a) A-(iv), B-(iii), C-(v). D-(ii), E-(i) b) A-(i), B-(iii), C-(iv), D-(ii), E-(v) c) A-(iv), B-(iii), C-(i), D-(ii), E-(v)
d) A-(v). B-(iv), C-(iii), D-(ii), E-(i)

352. Ascaris lumbricoides infection occurs through _____ .
a) sole of uncovered feet b) contaminated food & water c) improperly cooked measly pork
d) from air through inhalation

353. In Krebs'cycle FAD participates as electron acceptor during the conversion of_____
a) succinyl Co-A to succinic acid b) a-ketoglutarate to succinyl Co-A c) succinic acid to fumaric acid
d) fumaric acidto malic acid

354. The term "molecular scissors" generally refers to:
a) DNA polymerases b) RNA polymerases c) Restriction endonucleases d) DNA ligases

355. Cartilage is formed by
a) chondrocytes b) osteoblasts c) osteoclasts d) fibroblasts.

356. PCR proceeds in three distinct steps governed by temperature they are in order of:
a) Denaturation, Annealing, Synthesis b) Synthesis, Annealing, Denaturation
c) Annealing, Synthesis, Denaturation d) Denaturation, Synthesis, Annealing

357. The giant Redwood tree (Sequoia sempervirens) is a an
a) angiosperm b) free fern c) pteridophyte d) gymnosperm.

358. The inhibitor which does not resemble the substrate in structure and binds to the enzyme at site other than the active site is called
a) competitive inhibitor b) non-competitive inhibitor c) activator d) substrate analogue.

359. Meristematic tissues are composed of
a) mature cells b) fully differentiated cells c) cells that cannot divide
d) immature cells with power to divide.

360. A chemical believed to be involved in flowering is_____
a) gibberellin b) kinetin c) florigen d) IBA

361. Botanical name of cauliflower is _____ .
a) Brassica oleracea var. capitata b) Brassica campestris c) Brassica oleracea var. botrytis
d) Brassica oleracea var. gemmifera

362. During the process of fertilisation the pollen tube of the pollen grain usually enters the embryo sac through
a) integument b) nucellus c) chalaza d) micropyle

363. Which of the following contraceptive methods correctly matches with its mode of action?
a)

Contraceptive method	Mode of action
Tubectomy	Makes the uterus unsuitable for implantation

b)

Contraceptive method	Mode of action
Oral pills	Inhibit ovulation and implantation

c)

Contraceptive method	Mode of action
Diaphragms	Spermicidal and increases phagocytosis of sperms within the uterus

d)

Contraceptive method	Mode of action
IUDs	Blocks gamete transport

364. The most apparent change during the evolutionary history of **Homo sapiens** is traced in

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a) loss of body hair b) walking upright c) shortening of the jaws d) remarkable increase in the brain size

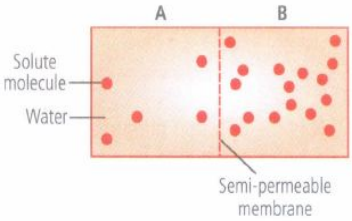
365. The amino acid having 5 in its composition is-
a) Cystine b) Cysteine c) Methionine d) All

366. Which of the following pair of organelles does not contain DNA?
a) Chloroplasr and Vacuoles b) Lysosomes and Vacuoles c) Nuclear envelope and Mitochondria
d) Mitochondria and Lysosomes

367. Stratification is well developed in
a) Tropical rain forests b) Grasslands c) Alpine vegetations d) Temperate forests

368. Rhizome of ginger is a modification of stem because
a) It bears Adventitious roots b) It bears nodes and internodes c) It is underground
d) It stores food material

369. Based on the figure given below which of the following statements is not correct?

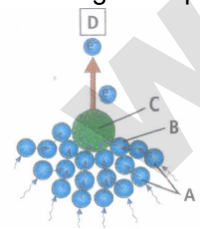


a) Movement of solvent molecules will take place from chamber A to B.
b) Movement of solute will take place from A to B.
c) Presence of a semi-permeable is a pre-requisite for this process to occur.
d) The direction and rate of osmosis depends on both the pressure gradient and concentration gradient.

370. Two friends are eating together on a dining table. One of them suddenly starts coughing while swallowing some food. This coughing would have been due to improper movement of
a) epiglottis b) diaphragm c) neck d) tongue

371. Tetrad of megaspores produced from megaspore mother cell is mostly
a) Isobilateral b) Linear c) Tetrahedral d) Decussate

372. Given figure depicts the light harvesting complex (LHC) of photosystem I (PS I).



Select the correct identification for A, B, C and D

a)

A	B	C	D
Core molecules	Antenna molecule	P_{680}	Primary eacceptor

b)

A	B	C	D
Antenna molecules	Core molecule	P_{700}	Primary e- accepto

c)

A	B	C	D
Antenna molecules	Core	P_{700}	Plastocyanin molecule

d)

A	B	C	D
Core molecules	Reaction center	P_{680}	Plastocyanin

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373. Stomatal movement is not affected by____
a) O_2 concentration b) Light c) Temperature d) CO_2 concentration

374. The thickening of walls of arteries is called____
a) arthritis b) atherosclerosis c) anaeurysm d) Both (a) and (c)

375. During ana phasic movements of chromosomes, _____of each chromosome is/are towards the pole and _____of the chromosome trail(s) behind.

a) centromere, arms b) arms, centromere c) chromatids, centromere d) none of these

376. One of the oldest, best preserved and most complete hominid fossil commonly known as 'Lucy' belongs to the genus:
a) Australopithecus b) Oreopithecus c) Dryopithecus d) Pithecanthropus

377. The lining of intestinal wall from outside to inside is made up of
a) circular muscles → longitudinal muscles → mucosa → submucosa
b) longitudinal muscles → circular muscles → submucosa → mucosa
c) mucosa → submucosa → circular muscles → longitudinal muscles
d) submucosa → longitudinal muscles → circular muscles → mucosa

378. A chemical carcinogen present in tobacco smoke is responsible for
a) skin cancer b) pancreatic cancer c) stomach cancer d) lung cancer

379. A perennial plant differs from biennial in _____ .
a) Having underground perennating structure b) Having asexual reproductive structures
c) Being tree species d) Not dying after seasonal production of flowers

380. Even in absence of pollinating agents seed-setting is assured in
a) Commelina b) Zostera c) Salvia d) Fig

381. AIDS virus has
a) Single strand DNA b) Double strand DNA c) Single strand RNA d) Double strand RNA

382. The dB is a standard abbreviation used for the quantitative expression of:
a) A particular pollutant b) The dominant Bacillus in a culture c) A certain pesticide
d) The density of bacteria in a medium

383. First experimental proof for semi-conservative DNA replication was shown in
a) Streptococcus pneumoniae b) Escherichia coli c) Neurospora crassa d) Rattus rattus

384. Passive absorption of minerals depend on____
a) temperature b) temperature and metabolic inhibitor c) rnetabolic inhibitor d) humidity

385. Warburg effect refers to
a) decreased photosynthetic rate at very high O_2 concentration
b) increased photosynthetic rate at very high O_2 concentration
c) decreased photosynthetic rate at very low O_2 concentration
d) increased photosynthetic rate at very low O_2 concentration.

386. Identify the incorrectly matched pair.

a)

Pair of skeletal parts	Category
Sternum and ribs	Axial skeleton

b)

Pair of skeletal parts	Category
Clavicle and glenoid cavity	Pelvic girdle

c)

Pair of skeletal parts	Category
Humerus and ulna	Appendicular skeleton

d)

Pair of skeletal parts	Category
Malleus and stapes	Ear ossicles

387. Pigment-containing membranous extensions in some cyanobactena are___
a) Basal bodies b) pneumatophores c) Chromatophores d) Heterocysts

388. Maximum number of existing transgenic animals is of:
a) Fish b) Mice c) Cow d) Pig

389. Stem modified into leaf like structure and leaves are changed into spines in
a) Phyllode b) Tuber c) Phylloclade d) All the above

390. Sugar found in haemolymph of insects is called-
a) Maltose b) Lactose c) Trehalose d) Galactose

391. Root pressrue develops due to_____
a) Low osmotic potential in soil b) Passive absorption c) Increase in transpiration d) Active absorption

392. Substances like glucose, amino acids, Na+ etc. in the filtrate are reabsorbed by

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a) Active transport b) Passive transport c) Both active and passive transport d) Facilitated diffusion

393. Which of the following statements are correct?
(i) Benzene hexachloride (BHC) is a non-biodegradable pollutant.
(ii) Anthropogenic air pollutants are natural in origin.
(iii) Carbon monoxide is a primary air pollutant.
(iv) Sulphur dioxide causes brown air effect during traffic congestion in cities.
a) (i) and (iii) b) (i) and (ii) c) (ii) and (iii) d) (ii) and (iv)

394. Match the following and mark the correct option

	Column-I		Column-II
A	Fast muscle fibres	(i)	Myoglobin
B	Slow muscle fibres	(ii)	Lactic acid
C	Actin filament	(iii)	Contractile unit
D	Sarcomere	(iv)	I-band

a) A-(i), B-(ii), C-(iv), D-(iii) b) A-(ii), B-(i), C-(iii), D-(iv) c) A-(ii), B-(i), C-(iv), D-(iii)
d) A-(iii), B-(ii), C-(iv), D-(i)

395. The energy-releasing metabolic process in which substrate is oxidised without an external electron acceptor is called
a) Glycolysis b) Fermentation c) Aerobic respiration d) Photorespiration

396. The substance given to cancer patients in order to activate their immune system and destroy the tumour is
a) histamine b) interleukin c) α-interferon d) morphine

397. The sequence that controls the copy number of the linked DNA in the vector, is termed.
a) Palindromic sequence b) Recognition site c) Selectable marker d) Ori site

398. In an ecosystem the function of the producers is to
a) Convert organic compounds into inorganic compounds
b) Trap solar energy and convert it into chemical energy c) Utilize chemical energy d) Release energy

399. Formation of ozone hole is maximum over _____.
a) India b) Antarctica c) Europe d) Africa

400. Which of the following is odd one from the following about liver worts?
a) Foot, Seta, Capsule b) Spore, Archegonium, Antheridum
c) Protonema, Primary protonema & Secondary protonema d) Parenchyma, Gemmae, Scales

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