

**NECO GCE BIOLOGY PAST QUESTIONS 2025 (UPDATED TILL LAST 3 YEARS)**

1. The following processes release carbon dioxide into the atmosphere EXCEPT

- A. combustion
- B. decomposition
- C. putrefaction
- D. respiration
- E. transpiration

2. Which of the following is a characteristic of mollusc?

- A. Bodies are protected by hard exoskeleton
- B. Bodies are segmented
- C. Body walls have three layers
- D. Presence of paired jointed appendages
- E. The head bears a pair of antennae

3. These groups of bacteria are harmless EXCEPT

- A. denitrifying
- B. nitrifying
- C. nitrogen-fixing
- D. parasitic
- E. saprophytic

4. Which of the following enzymes act on carbohydrates?

- A. Amylase
- B. Lipase
- C. Pepsin
- D. Renin
- E. Trypsin

5. Which of the following body characteristics distinguishes Ascaris from Earthworms?

- A. Bilaterally symmetrical
- B. Cylindrical
- C. Segmented
- D. Soft
- E. Unsegmented

6. Plants use Nitrogen in the form of

- A. ammonia
- B. ammonium
- C. nitrates
- D. nitrites
- E. urea

7. Digested food is carried from small intestine to the liver by the

- A. hepatic artery
- B. hepatic portal vein
- C. hepatic vein
- D. inferior vena cava
- E. superior vena cava

8. Which of the following enables mammals to maintain balance?

- A. Cochlea
- B. Eustachian tube
- C. Ossicle
- D. Semi-circular canal
- E. Tympanic membrane

9. Cellular respiration occurs in the

- A. chloroplast
- B. endoplasmic reticulum

- C. food vacuole
- D. mitochondrion
- E. nucleus

10. Which of these vertebrae is of the same number in man and rabbit?

- A. Caudal
- B. Cervical
- C. Lumbar
- D. Sacral
- E. Thoracic

11. These animals exhibit camouflage EXCEPT

- A. chameleon
- B. crab
- C. crocodile
- D. lizard
- E. snake

12. The male reproductive part of a flower is made up of

- A. anther and filament
- B. ovary and ovule
- C. ovule and style
- D. stigma and filament
- E. style and stigma

13. Which of these is a simple dehiscent fruit?

- A. Achene
- B. Cypsela
- C. Legume
- D. Nut
- E. Samara

14. Which of the following processes converts nitrates in the soil to atmospheric nitrogen?

- A. Denitrification
- B. Lightning
- C. Nitrification
- D. Putrefaction
- E. Rainfall

15. The part of the male reproductive organ where sperm cells are produced is called?

- A. epididymis
- B. penis
- C. seminal vesicle
- D. seminiferous tubules
- E. vas deferens

16. Mycelium is a feature of

- A. algae
- B. bacteria
- C. ferns
- D. fungi
- E. viruses.

17. Root hairs are extensions of the

- A. cortex
- B. endodermis
- C. epidermis
- D. piliferous layer
- E. vascular bundle

18. The structure in cell concerned with the synthesis of proteins is the

- A. endoplasm reticulum
- B. ribosome

- C. nucleus
- D. plasma membrane
- E. golgi apparatus

19. Which of the following is an abiotic factor in an ecosystem?

- A. Food
- B. Host
- C. Parasite
- D. Predator
- E. Pressure

20. Exoskeleton is a characteristic feature of

- A. amoeba
- B. earthworm
- C. hydra
- D. millipede
- E. tapeworm

21. The type of placentation found in tomato fruit is called

- A. axile
- B. bisal
- C. free central
- D. marginal
- E. parietal

22. Which of these influences growth movement in plants?

- A. Acetic acid
- B. Auxins
- C. Chlorophyll
- D. Enzyme
- E. Ethylene

23. Which of the following is bryophyte?

- A. Bladderwort
- B. Flytrap
- C. Liverwort
- D. Pitcher
- E. Sundew

24. The basic unit of classification of living things is the

- A. class
- B. genus
- C. kingdom
- D. phylum
- E. species

25. Fern plants carry out Photosynthesis in the

- A. frond
- B. rhizome
- C. sorus
- D. stolon
- E. thallus

26. The following plants have self-pollinated flowers EXCEPT?

- A. groundnut
- B. okra
- C. rice
- D. wheat

27. These processes are involved in asexual reproduction EXCEPT

- A. budding
- B. fertilization
- C. fission

**D.** spore formation

**E.** vegetative propagation

28. The cortex of a herbaceous stem is made up of

**A.** collenchyma and parenchyma

**B.** collenchyma and sclerenchyma

**C.** parenchyma and sclerenchyma

**D.** pericycle and endodermis

**E.** sclerenchyma and endodermis

29. Excess amino acids are converted into urea by the

**A.** heart

**B.** kidney

**C.** liver

**D.** muscles

**E.** spleen

30. The products of respiration in higher plants are

**A.** carbondioxide, energy and starch

**B.** carbondioxide, energy and water

**C.** carbondioxide, oxygen and water

**D.** carbondioxide, starch and water

**E.** glucose, energy and water

31. What will be the phenotypic ratio in the f1 generation, if a dominant red flowered plant (RR) is crossed with recessive white flowered plant (rr)?

**A.** 1 red : 1 white

**B.** 2 red : 0 white

**C.** 3 red : 1 white

**D.** 4 red : 0 white

**E.** 4 red : 4 white

32. Which of these organisms reproduces by budding?

- A. Amoeba
- B. Euglena
- C. Hydra
- D. Paramecium
- E. Volvox

33. Which of these is NOT a pollutant?

- A. Carbondioxide
- B. Lead oxide
- C. Nitrogen gas
- D. Nitrogen oxide
- E. Sulphur dioxide

34. Villi are finger-like structures found in the

- A. large intestine
- B. rectum
- C. small intestine
- D. stomach
- E. tongue

35. Over-grazing encourages soil

- A. acidity
- B. conservation
- C. erosion
- D. fertility
- E. formation

36. In mammals, tissue respiration takes place in the

- A. alveoli
- B. cells



- C. lungs
- D. nose
- E. trachea

37. A dehiscent fruit formed from several fused carpels with many seeds is classified as a/an

- A. achene
- B. capsule
- C. caryopsis
- D. follicle
- E. legume

38. The topmost layer of a typical soil profile is

- A. clay
- B. coarse sand
- C. fine sand
- D. gravel
- E. humus

39. Which of these is NOT part of a seed?

- A. Cotyledon
- B. Embryo
- C. Endosperm
- D. Pericarp
- E. Testa

40. Which of the following functions of the body are nephrons associated with?

- A. Circulation
- B. Digestion
- C. Excretion
- D. Reproduction
- E. Respiration

41. In a moss plant, spores are produced in the
- A. capsule
  - B. leaf
  - C. rhizoid
  - D. seta
  - E. stalk
42. The following practices are adopted in the conservation of tropical rain forest EXCEPT
- A. afforestation
  - B. creation of game reserve
  - C. creation of forest reserve
  - D. re-afforestation
  - E. deforestation
43. Which of these is a courtship behavior in toad?
- A. Display of body parts
  - B. Display of color
  - C. Pairing
  - D. Production of scent
  - E. Territoriality
44. Loamy soil - is used for crop production because of its
- A. high humus content
  - B. high percentage of clay
  - C. high porosity
  - D. low gravel content
  - E. low humus content
45. What will the phenotypic ratio when a tall pea plant (TT) is crossed with a short pea plant (Tt)?
- A. 0:04
  - B. 1:03

**C. 2:02**

**D. 3:01**

**E. 4:00**

46. Liver destroys old red blood cells to produce digestive substance called

**A. amalyse**

**B. bile**

**C. insulin**

**D. lipase**

**E. rennin**

47. Which of these is NOT an example of reflex action

**A. Walking**

**B. Banging of feet on an object**

**C. Blinking of the eyes**

**D. Jerking of the knee**

**E. Sneezing**

48. Which of these is produced by pancreas?

**A. Insulin**

**B. Pepsin**

**C. Ptyalin**

**D. Renin**

**E. Streapsin**

49. Which of the following crop diseases is caused by a fungus?

**A. Cassava blight**

**B. Cocoa black pod**

**C. Groundnut rosette**

**D. Lettuce mosaic**

**E. Yam mosaic**

50. The splitting of water molecule by light during photosynthesis is called
- A. chemosynthesis
  - B. haemolysis
  - C. hydrolysis
  - D. photolysis
  - E. haemolysis
51. The function of ribosome is
- A. excretion of waste
  - B. protein synthesis
  - C. reproduction
  - D. respiration
  - E. secretion of hormones.
52. The following are functions of the liver EXCEPT
- A. deamination of excess amino acids and proteins
  - B. excretion of bile pigments
  - C. manufacture of blood plasma
  - D. production of heat
  - E. storage of vitamins and minerals
53. During fertilization, the direction in which the pollen tube grows is controlled by
- A. Ovary
  - B. ovule
  - C. pollen grains
  - D. pollen tube nucleus
  - E. style
54. Crime detection in a forensic laboratory involves the use of
- A. blood transfusion
  - B. blood analysis

- C. fingerprints
- D. genetic combination
- E. tongue rolling ability

55. Which of these factors least affects population size?

- A. Availability of food
- B. Disease
- C. Immigration
- D. Rate of reproduction
- E. Variation

56. Which of the following is NOT a natural method of birth control?

- A. Abstaining from sex
- B. Prolonged breast feeding
- C. Rhythm method
- D. Use of condom
- E. Withdrawal method

57. Which of the following modes of nutrition is autotrophic?

- A. Holophytic
- B. Holozoic
- C. Parasitic
- D. Saprophytic
- E. Symbiotic

58. The network of blood capillaries in the kidney capsule is referred to as

- A. capsule
- B. glomerulus
- C. pelvis
- D. pyramid
- E. ureter

59. Petals join together to form a tube known as
- A. epigynous
  - B. gamopetalous
  - C. hypogynous
  - D. polypctalous
  - E. polysepalous
60. The following attract insects to flowers for pollination EXCEPT
- A. brightly coloured petals
  - B. broad and grooved corolla
  - C. presence of anther with light pollen grains
  - D. presence of nectar
  - E. presence of sweet scent
61. Which of these organisms exists as a filament?
- A. Diatom
  - B. Euglena
  - C. Paramecium
  - D. Spirogyra
  - E. Volvox
62. The structure that separates the thoracic from abdominal cavity is
- A. diaphragm
  - B. intercostal muscle
  - C. rib
  - D. sternum
  - E. thoracic vertebrae
63. Meiosis involves all the following EXCEPT
- A. exchange of genes
  - B. production of cells with diploid number of chromosomes

- C. production of cells with haploid number of chromosomes
- D. production of two daughter cells
- E. two nuclear divisions

64. The two nuclei contained in the germinating pollen grain are

- A. egg and palisade
- B. generative and sperm
- C. generative and tube
- D. spongy and tube
- E. tube and cellular

65. The following are ways of preserving food EXCEPT

- A. boiling
- B. canning
- C. drying
- D. freezing
- E. salting

66. The following are the functions of a worker termite EXCEPT

- A. building of tunnels
- B. construction of fungus garden
- C. feeding the young
- D. fetching food
- E. protecting the nest

67. The group of organisms at the base of the pyramid of numbers are

- A. decomposers
- B. primary consumers
- C. producers
- D. secondary consumers
- E. tertiary consumers

68. Spider belongs to which of the following classes in the phylum arthropoda?

- A. Arachnida
- B. Chilopoda
- C. Crustacean
- D. Insect
- E. Myriapoda

69. Intercostal muscles are found in the ----- region

- A. abdominal
- B. chest
- C. head
- D. limb
- E. neck

70. Which of these is an example of physiological variation?

- A. Blood group
- B. Eye colour
- C. Fingerprint
- D. Height
- E. Weight

71. The main constituents of glomerular filtrate are

- A. blood and water
- B. blood and urea
- C. glucose and water
- D. salt and blood
- E. water and urea

72. The following are types of finger prints EXCEPT

- A. arch
- B. compound



- C. loop
- D. simple
- E. whorl

73. Which of the following is a biotic factor that affects population?

- A. Predator
- B. Salinity
- C. Space
- D. Temperature
- E. Water

74. Amoeba engulfs food particles by means of its

- A. contractile vacuole
- B. cytoplasmic membrane
- C. food vacuoles
- D. nucleus
- E. pseudopodia.

75. The type of association in which one organism benefits and the other neither benefits nor is harmed is called

- A. commensalism
- B. mutualism
- C. parasitism
- D. saprophytism
- E. symbiosis

76. The following are associated with succession EXCEPT

- A. changes in species composition
- B. competition among organisms
- C. decrease in number of organisms
- D. diversity of organisms
- E. habitat change

77. Which of the following is NOT found in animal cell?

- A. Chloroplast
- B. Endoplasmic reticulum
- C. Golgi apparatus
- D. Mitochondria
- E. Nucleus

78. A woman removed a hot aluminium pot with her bare hand and suddenly throws it down. What type of action has taken place?

- A. Conditional
- B. Instinctive
- C. Involuntary
- D. Learned
- E. Voluntary

79. A situation in which the African king fish encases itself in a cocoon, mud and mucus until the next rainy season is called

- A. adaptation
- B. aestivation
- C. diapause
- D. dormancy
- E. hibernation

80. The developing embryo is attached to the mother's uterus by

- A. amnion
- B. blood vessels
- C. placenta
- D. umbilical cord
- E. uterine cavity

81. Which of the following organisms maintains a fairly constant body temperature?

- A. Chicken
- B. Fish
- C. Lizard
- D. Toad
- E. Snake

82. Which of the following is an anabolic process

- A. Excretion
- B. Fermentation
- C. Photolysis
- D. Photosynthesis
- E. Transportation

83. The dental formula  $i \frac{3}{3}, c \frac{1}{1}, pm \frac{4}{4}, m \frac{2}{3}$  represents that of a

- A. Cat
- B. Dog
- C. Man
- D. Rabbit
- E. Sheep

84. The following are kidney diseases EXCEPT

- A. diuresis
- B. Hepatitis
- C. kidney stones
- D. nephritis
- E. oedema.

85. The following are involved in reflex action EXCEPT

- A. brain cells
- B. intermediate neuron

- C. motor neuron
- D. receptor
- E. sensory neuron

86. The association between a tapeworm and an infected mammal illustrates

- A. commensalism
- B. parasitism
- C. predation
- D. saprophytism
- E. symbiosis.

87. An example of a natural source of light energy is

- A. electricity
- B. food
- C. heat
- D. petrol
- E. sun

88. The following parts of the ear are involved in hearing EXCEPT

- A. auditory meatus
- B. cochlea
- C. eardrum
- D. eustachian tube
- E. ossicles

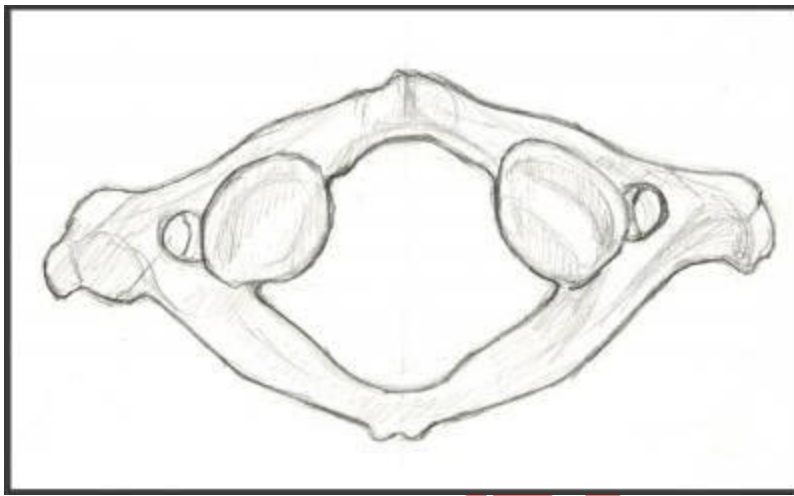
89. In mammals, fertilization takes place in the

- A. ovary
- B. oviduct
- C. uterus
- D. vagina
- E. vulva

90. An organism with identical allelic genes is described as

- A. dihybrid
- B. heterozygous
- C. homozygous
- D. monohybrid
- E. recessive

91.



In which region of the body is the diagram illustrated found?

- A. Abdominal
- B. Chest
- C. Neck
- D. Tail
- E. Waist

92. What type of fruit is pineapple?

- A. Aggregate
- B. Capsule
- C. Complex
- D. Multiple
- E. Simple

93. Which of the following is NOT a type of supporting tissue in plants?

- A. Cambium
- B. Collenchyma
- C. Parenchyma
- D. Sclerenchyma
- E. Xylem

94. The medium of transportation in higher plants is

- A. cell sap
- B. cytoplasm fluid
- C. phloem
- D. water
- E. xylem

95. The vitreous humour in the human eye assists in ..... of objects

- A. contraction
- B. conversion
- C. reflection
- D. refraction
- E. retention

96. The gland that secretes the hormone glucagon is ... gland

- A. adrenal
- B. endocrine
- C. pancreas
- D. pituitary
- E. thyroid

97. Which of these is NOT an example of heterotrophic mode of nutrition?

- A. Holozoic
- B. Holophytic

- C. Parasitic
- D. Saprophytic
- E. Symbiotic

98. In a test for reducing sugar, the food substance is usually warmed with

- A. Benedict's solution
- B. Millon's reagent
- C. Sodium hydroxide
- D. Sudan III
- E. 1% copper II sulphate solution

99. Which of the following does NOT influence plant growth?

- A. Light
- B. Nutrients
- C. Temperature
- D. Vitamins
- E. Water

100. Which of the following fruits is an example of a caryopsis?

- A. Cashew nut
- B. Cornbretum
- C. Maize
- D. Orange
- E. Tridax

101. Which of these nitrogenous bases is NOT a part of RNA?

- A. Adenine
- B. Cytosine
- C. Guanine
- D. Thymine
- E. Uracil

102. Which of the following processes removes carbon (IV) oxide from the atmosphere?

- A. Combustion
- B. Excretion
- C. Photosynthesis
- D. Respiration
- E. Transpiration

103. The practice of growing more than one type of crop on the same plot of land is called

- A. continuous cropping
- B. crop rotation
- C. mixed cropping
- D. mixed farming
- E. subsistence farming

104. Which of the following is NOT an evidence of organic evolution?

- A. Comparative anatomy
- B. Embryology
- C. Fossil records
- D. Homologous features
- E. Spontaneous generation.

105. Blood carrying digested food from the small intestine flows into the liver via the

- A. hepatic portal vein
- B. hepatic vein
- C. hepatic artery
- D. mesenteric artery
- E. renal vein

106. Which of the following does NOT occur during photosynthesis?

- A. Carbon dioxide is evolved
- B. Energy from the sun is utilized



- C. Glucose is synthesized
- D. Oxygen is given off
- E. Split of water

107. Which of the following is NOT a function of placenta in mammals?

- A. absorption of food
- B. gaseous exchange
- C. removal of wastes
- D. secretion of hormones
- E. secretion of enzymes.

108. The following are ways of caring for the mammalian skin EXCEPT

- A. eating balanced diet
- B. exposing the skin to adequate sunlight
- C. using skin toning creams
- D. using moisturising creams to prevent drying
- E. washing the skin with clean water and soap

109. Which of these is NOT a structural adaptation of desert plants for water conservation?

- A. Broad leaves with many stomata
- B. Leaves reduced into spines
- C. Scale leaves
- D. Stems and leaves with thick cuticle
- E. Sunken stomata

110. Poor growth and yellowing of leaves in plants is due to deficiency of

- A. boron
- B. calcium
- C. copper
- D. iron
- E. phosphorus

111. Which of the following is a nitrifying bacterium?

- A. Azotobacter
- B. Clostridium
- C. Nitrobacter
- D. Rhizobium
- E. Staphylococcus

112. In the process of succession, a climax community is established when

- A. a stable community is achieved
- B. the colonizers accommodate the new comers
- C. the colonizers are wiped out
- D. the first inhabitants settle down
- E. the new comers dominate the original inhabitants

113. The speed of wind can be measured with an instrument called

- A. anemometer
- B. barometer
- C. hygrometer
- D. photometer
- E. thermometer

114. All these statements are correct about a vein EXCEPT that it

- A. carries blood to the heart
- B. contains blood at low pressure
- C. has no valve
- D. possesses fairly thick walls
- E. usually carries deoxygenated blood

115. Tsetse-fly is a vector of a disease known as

- A. cholera
- B. dysentery

- C. elephantiasis
- D. malaria
- E. trypanosomiasis

116. The process which reduces the nitrogen content of the soil is

- A. ammonification
- B. denitrification
- C. nitrogen fixation
- D. nitrification
- E. putrefaction

117. Birds excrete nitrogenous wastes in form of

- A. ammonia
- B. sweat
- C. urea
- D. uric acid
- E. urine

118. A waterlogged habitat with low light penetration and very low quantity of dissolved oxygen best describes a/an habitat

- A. estuarine
- B. marine
- C. sahel savanna
- D. swampy
- E. tropical rainforest

119. Deficiency of calcium in a child's diet causes

- A. cretinism
- B. goiter
- C. kwashiorkor
- D. rickets
- E. scurvy

120. Which of these is a direct photosynthetic product?

- A. fats
- B. glucose
- C. latex
- D. protein
- E. starch

121. The number of chromosomes in a gamete is represented by

- A.  $n$
- B.  $2n$
- C.  $4n$
- D.  $23n$
- E.  $46n$

122. An example of a carnivorous plant is

- A. cassytha
- B. lichen
- C. mucor
- D. mushroom
- E. sundew

123. Autotrophs include all the following EXCEPT

- A. chemosynthetic bacteria
- B. diatoms
- C. green plants
- D. phytoplankton
- E. zooplankton

124. Which of these statements best defines pyramid of energy?

- A. energy flow from one trophic level to another
- B. energy flow from one habitat to another

- C. the amount of energy in a given area
- D. the loss of energy from one organism to another
- E. the rate of energy flow in an area

125. Dry, horny scales in reptiles help them to

- A. carryout gaseous exchange
- B. escape from predator
- C. facilitate movement
- D. look for mating partners
- E. prevent water loss.

126. In terms of evolutionary trend, which of these invertebrates evolved first?

- A. Annelida
- B. Arthropoda
- C. Coelentrata
- D. Platyhelminthes
- E. Protozoa

127. The tricuspid valve is located between the

- A. left auricle and left ventricle
- B. left and right auricles
- C. right and left ventricles
- D. right auricle and right ventricle
- E. right auricle and left ventricle

128. The following can increase crop production EXCEPT

- A. erosion control
- B. fertilizer application
- C. mechanization
- D. monocropping
- E. pest control

129. Which of the following enzymes requires acidic medium to function?

- A. Amylase
- B. Erepsin
- C. Maltose
- D. Pepsin
- E. Ptyalin

130. Which of the following is NOT a type of exoskeleton?

- A. Cartilage
- B. Chitin
- C. Hoot
- D. Nail
- E. Shell

131. All of these are vertebrates EXCEPT

- A. lizard
- B. rat
- C. starfish
- D. tilapia fish
- E. toad

132. The function of the ribosomes is the

- A. absorption of carbon dioxide from the air
- B. control of all the vital activities of the cell
- C. provision of energy for cellular activities
- D. synthesis of secretory products
- E. synthesis of proteins and enzymes

133. Which of the following is NOT a transmissible character?

- A. dimple cheek
- B. ability to roll tongue

- C. colour blindness
- D. sickle-cell anaemia
- E. big muscles of a boxer

134. Cotton is an example of a/an crop.

- A. fibre
- B. food
- C. latex
- D. oil
- E. cereal

135. Which of the following is NOT a type of finger print?

- A. arch
- B. compound
- C. loop
- D. simple
- E. whorl

136. Which of the following deaminates excess amino acids?

- A. Duodenum
- B. Ileum
- C. Kidney
- D. Liver
- E. Pancreas

137. The enzyme ptyalin acts in the

- A. large intestine
- B. mouth
- C. oesophagus
- D. small intestine
- E. stomach

138. Maximum and minimum thermometer is used for measuring

- A. atmospheric pressure
- B. highest and lowest amount of rainfall in habitat
- C. highest and lowest temperature of the day
- D. light intensity
- E. relative humidity

139. An ovary with ovules arranged along its walls is said to have -- placentation.

- A. axile
- B. central
- C. free central
- D. marginal
- E. parietal

140. In which of the following blood vessels does exchange of materials occur

- A. arteries
- B. arterioles
- C. capillaries
- D. venules
- E. veins

141. Intestinal juice contains the following enzymes EXCEPT

- A. erepsin
- B. lipase
- C. maltase
- D. sucrase
- E. trypsin

142. Mycelium is a characteristic feature of

- A. bacteria
- B. hydra



**C. moulds**

**D. Mosses**

**E. yeasts**

143. In savanna trees, thick corky bark is an adaption for

**A. absorbing water**

**B. conserving water**

**C. enhancing transpiration**

**D. reducing transpiration**

**E. resistance to bush fire**

144. The fluid in the inner ear is called

**A. aqueous humour**

**B. endolymph**

**C. lymphocyte**

**D. perilymph**

**E. vitreous humour**

145. An organism that transmits pathogens is called a

**A. prey**

**B. commensal**

**C. parasite**

**D. symbiont**

**E. vector**

146. Which of the following factors does NOT affect photosynthesis?

**A. carbon (iv) oxide**

**B. light intensity**

**C. relative humidity**

**D. soil water**

**E. temperature**

147. Soil factors in an ecosystems are referred to as

- A. biotic
- B. climatic
- C. edaphic
- D. physiographic
- E. topographic

148. Which of the following eye defects can be corrected with a bi-focal lens?

- A. Astigmatism
- B. Cataract
- C. Hypermetropia
- D. Myopia
- E. Presbyopia

149. Under secretion of thyroxine before maturity cause

- A. cretinism
- B. gigantism
- C. goiter
- D. myxoedema
- E. obesity

150. The following are classes of dry indehiscent fruits EXCEPT

- A. achene
- B. caryopsis
- C. cypsela
- D. follicle
- E. schizocarp

151. A feeding relationship in which both organisms benefit is referred to as

- A. commensalism
- B. parasitism

- C. predation
- D. saprophytism
- E. symbiosis

152. When a plant shows yellowing of leaves and stunted growth, the plant is deficient in

- A. copper
- B. iron
- C. manganese
- D. silicon
- E. zinc

153. The glomerular filtrate contains the following substances EXCEPT

- A. blood cells
- B. glucose
- C. mineral salts
- D. Water
- E. urea

154. The mouth part of a mosquito through which it sucks the blood of its victim is called

- A. hypopharynx
- B. mandible
- C. labium
- D. labrum
- E. stylet

155. Plants that are found in extreme dry conditions are called

- A. epiphytes
- B. hydrophytes
- C. mesophytes
- D. thallophytes
- E. xerophytes

156. Which of the following is NOT a characteristic of digestive enzymes?

- A. changes in pH affect enzymes
- B. enzymes react best at high temperature
- C. enzymes react reversibly
- D. they are affected by intake of poisons
- E. they are protein in nature

157. Which of the following is released from car exhaust due to incomplete combustion of fuel?

- A. carbon dioxide
- B. carbon monoxide
- C. nitrogen dioxide
- D. oxygen
- E. sulphur dioxide

158. The part of the kidney tubule where ultra filtration takes place is the

- A. Bowman's capsule
- B. distal convoluted tubule
- C. Henle's loop
- D. main collecting tubule
- E. proximal convoluted tubule

159. The plant cell is different from an animal cell because it has

- A. cellulose cell-wall
- B. cytoplasmic content
- C. centriole
- D. mitochondria
- E. nucleus

160. A typical lumbar vertebra does NOT have

- A. centrum
- B. neural arch

- C.** neural spine
- D.** neural canal
- E.** vertebrartenal canal

161. Xylem tissue consists of the following cells EXCEPT

- A.** sieve tubes
- B.** tracheids
- C.** vessels
- D.** fibres
- E.** parenchyma

162. The correct sequence of energy transfer among living organisms in an ecosystem is

- A.** consumers - decomposers – producers
- B.** consumers - producers - decomposers
- C.** decomposers - producers- consumers
- D.** producers - consumers- decomposers
- E.** producers - decomposers- consumers

163. Which of these is NOT a method of improving crop yield?

- A.** spraying the crops with chemicals
- B.** mechanized farming
- C.** sowing pest resistant varieties of seeds
- D.** storing the crops in barns or silos
- E.** sowing of viable seeds

164. Simple sugars are also called

- A.** cellulose
- B.** disaccharides
- C.** monosaccharides
- D.** polysacchaiides
- E.** starch

165. The end product of glycolysis is

- A. acetic acid
- B. citric acid
- C. ketoglutaric acid
- D. oxaloacetic acid
- E. pyruvic acid

166. Reflex action is controlled by

- A. cerebellum
- B. cerebrum
- C. medulla oblongata
- D. olfactory lobe
- E. pineal body

167. The tropical rainforest region is characterized by the following EXCEPT

- A. abundant grasses
- B. abundant rainfall
- C. abundant trees and shrubs
- D. high humidity
- E. low temperature

168. The removal of undigested food substances from the body is called

- A. assimilation
- B. egestion
- C. excretion
- D. elimination
- E. ingestion

169. The part of the skin which is excretory in function is the

- A. adipose tissue
- B. erector muscle

- C. hair follicle
- D. sebaceous gland
- E. sweat gland

170. A population can be referred to as the number of

- A. adult organisms in an ecosystem
- B. female species in an ecosystem
- C. male species in an ecosystem
- D. organisms of same species in an ecosystem
- E. organisms that can withstand harsh conditions

171. Stunted growth and reduced yield in cassava plant is as a result of a disease called

- A. blight
- B. leaf curl
- C. leaf spot
- D. mosaic
- E. smut

172. Food wastage is caused by the following EXCEPT

- A. attack of moulds on farm crops
- B. lack of access roads
- C. lack of transportation
- D. poor harvesting methods
- E. proper storage

173. Blood groups and tongue rolling are examples of

- A. continuous variation
- B. discontinuous variation
- C. variation due to environment
- D. adaptive variation
- E. sex-linked variation

174. Mealy bugs are pests of

- A. cassava
- B. cotton
- C. maize
- D. rice
- E. yarn

175. The respiratory structures of insects are

- A. body surfaces
- B. gills
- C. kidneys
- D. lung
- E. tracheae

176. Chromosomes are found in the

- A. cell membrane
- B. centriole
- C. mitochondrion
- D. nucleus
- E. lysosome

177. The rate of transpiration of a leafy shoot can be measured with

- A. anemometer
- B. barometer
- C. photometer
- D. potometer
- E. thermometer

178. The axial skeleton is made up of

- A. fore and hind limbs
- B. limbs and limb girdles



- C. ribs and sternum
- D. skull and limbs
- E. skull and spine

179. Which of the following is NOT a function of the mammalian skin?

- A. detoxication
- B. excretion
- C. production of vitamin D
- D. protection
- E. temperature control

180. Which of the following is a liver disease?

- A. diuresis
- B. dropsy
- C. hepatitis
- D. nephritis
- E. oedema

181. Which of the following is NOT an excretory organ?

- A. Heart
- B. Kidney
- C. Liver
- D. Lung
- E. Skin

182. The organelle responsible for the transportation of substances within the cell is

- A. cell membrane
- B. chloroplast
- C. endoplasmic reticulum
- D. lysosome
- E. mitochondrion

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