

Biology Model Question Paper - 5

Question 1 : When a fresh water protozoan is placed in marine water_____.

- (A) the contractile vacuole disappears
- (B) the contractile vacuole increases in size
- (C) a number of contractile vacuoles appear
- (D) the contractile vacuole remains unchanged

Answer: (A)

Question 2 : A dorsal horn is present on the _____ of mulberry silk worm (caterpillar).

- (A) 8th abdominal segment
- (B) 5th abdominal segment
- (C) 2nd thoracic segment
- (D) Head

Answer: (A)

Question 3 : A balanced diet does NOT include _____.

- (A) Carbohydrates and fats
- (B) Nucleic acids and enzymes
- (C) Proteins and vitamins
- (D) Minerals and salts

Answer: (B)

Question 4 : To meet the demands of the society, in vitro production of a large number of plantlets in a short duration is practiced in floriculture and horticulture industry today. This is called _____.

- (A) Soma clonal variation
- (B) Hybridoma technology
- (C) Micropropagation
- (D) Somatic hybridization

Answer: (C)

Question 5 : The term genetic RNA refers to

- (A) the RNA that carries genetic message
- (B) the RNA that helps gene regulation in lac-operon
- (C) the RNA present in mitochondria
- (D) none of the above

Answer: (A)

Question 6 : When 2 to 3 drops of Benedicts reagent are added to a urine sample and heated gently, it turns yellow. This colour change indicates that _____.

- (A) Urine contains 1.5% glucose
- (B) Urine contains 2% glucose
- (C) Urine contains 0.5th glucose
- (D) Urine contains 1% glucose

Answer: (D)

Question 7 : What will be the codons in m-RNA if the DNA codes are ATG-CAG?

- (A) TAC – GTC
- (B) UAC – GUC
- (C) UCA – TUA
- (D) TCA – GTC

Answer: (B)

Question 8 : What is/are true about heart wood?

- A. It does not help in water conduction.
 - B. It is also called alburnum.
 - C. It is dark in colour but very soft.
 - D. It has tracheary elements which are filled with tannin, resin, etc.
- (A) A and D
 - (B) B and D
 - (C) A, B and C
 - (D) B, C and D

Answer: (A)

Question 9 : What is a genophore?

- (A) DNA in prokaryotes
- (B) DNA and RNA in prokaryotes
- (C) DNA and protein in prokaryotes
- (D) RNA in prokaryotes

Answer: (B)

Question 10 : Vitellogenesis occurs during the formation of

- (A) Oogonial cell in the Graafian follicle
- (B) Ootid in the fallopian tube
- (C) Secondary Oocyte in the fallopian tube
- (D) Primary oocyte in the Graafian follicle

Answer: (D)

Question 11 : Tyloses are found in _____.

- (A) secondary xylem
- (B) secondary phloem
- (C) sclerenchyma fibres
- (D) sclereids

Answer: (A)

Question 12 : Transpiration facilitates

- (A) Opening of stomata
- (B) Absorption of water by roots
- (C) Excretion of minerals
- (D) Electrolyte balance

Answer: (B)

Question 13 : The World Intellectual Property Day is observed on _____.

- (A) February, 29th
- (B) June, 30th
- (C) April, 26th
- (D) September, 5th

Answer: (C)

Question 14 : The types of ribosomes found in prokaryotic cell are _____.

- (A) 100 S
- (B) 80 S
- (C) 60 S
- (D) 70 S

Answer: (D)

Question 15 : The term, 'southern blotting' refers to

- (A) transfer of DNA fragments from in vitro cellulose membrane to electrophoresis gel
- (B) attachment of probes to DNA fragments
- (C) transfer of DNA fragments from electrophoresis gel to nitrocellulose sheet.
- (D) comparison of DNA fragments from two sources

Answer: (C)

