

Biology Model Question Paper - 2

Question 1 : $2n = 16$ in a primary spermatocyte which is in metaphase of first meiotic division. What shall be the total number of chromatids in each of the secondary spermatocytes?

- (A) 8
- (B) 16
- (C) 24
- (D) 32

Answer: (B)

Question 2 : A female Anopheles mosquito can be recognized by

- (A) Proboscis and palpi are long and more or less of equal length
- (B) Proboscis long and palpi short
- (C) Proboscis short and palpi long
- (D) Both proboscis and palpi are short

Answer: (A)

Question 3 : Which one of the following pairs is an example for lateral meristem?

- (A) Interfascicular cambium and phellem
- (B) Procambium and phelloderm
- (C) Phellogen and fascicular cambium
- (D) Phellogen and phelloderm

Answer: (C)

Question 4 : Which one of the following is the most primitive ancestor of man?

- (A) Homo habilis
- (B) Australopithecus
- (C) Rampithecus punjabicus
- (D) Homo neanderthalensis

Answer: (C)

Question 5 : Which one of the following is polysaccharide?

- (A) Glycogen
- (B) Sucrose
- (C) Lactose
- (D) Maltose

Answer: (A)

Question 6 : Which one of the following is NOT the reason for very high load of bilirubin in a newborn?

- (A) The liver of the newborn is too young to cope up with the heavy load of bilirubin.

- (B) Excessive red blood corpuscles in the newborn burst, releasing the bilirubin.
- (C) Insoluble bilirubin in the intestine is reabsorbed by the blood.
- (D) Mother's milk contains a high amount of bilirubin.

Answer: (D)

Question 7 : Which one of the following is NOT the function of insulin?

- (A) Increase the oxidation of glucose in the cells.
- (B) Increases the permeability of cell membrane to glucose.
- (C) Initiates the formation of hepatic glycogen from excess of glucose.
- (D) Initiates the conversion of glycogen to glucose.

Answer: (D)

Question 8 : Which one of the following is not related to guttation?

- (A) Water is given out in the form of droplets
- (B) Water given out is impure
- (C) Water is given out during daytime
- (D) none of the above

Answer: (C)

Question 9 : Which one of the following is NOT an antitranspirant?

- (A) PMA
- (B) BAP
- (C) Silicon oil
- (D) Low viscosity

Answer: (B)

Question 10 : Which one of the following is not a second messenger in hormone action?

- (A) Calcium
- (B) Sodium
- (C) cAMP
- (D) cGMP

Answer: (B)

Question 11 : Which one of the following is NOT a method of soil conservation?

- (A) Overgrazing
- (B) Mulching

- (C) Crop rotation
- (D) Strip cropping

Answer: (A)

Question 12 : Which one of the following is mainly responsible for green house effect?

- (A) SO₂
- (B) CO₂
- (C) CO
- (D) O₂

Answer: (B)

Question 13 : Which one of the following is correct?

- (A) Introns are present in m-RNA and exons are present in t-RNA
- (B) Codons are present in m-RNA and anticodons in t-RNA
- (C) Every intron is a set of three terminator codons
- (D) Exons are present in eukaryotes while introns are present in prokaryotes

Answer: (B)

Question 14 : Which one of the following is an exotic carp species?

- (A) *Barbus stigma*
- (B) *Cyprinus carpio*
- (C) *Labeo bata*
- (D) *Cirrhinus mrigala*

Answer: (B)

Question 15 : Which one of the following is an example of chlorophyllous thallophyte?

- (A) *Volvariella*
- (B) *Spirogyra*
- (C) *Nephrolepis*
- (D) *Gnetum*

Answer: (B)