

Q1: Populations are said to be sympatric when \_\_\_\_\_

- A. two populations are physically isolated by natural barriers
- B. two populations live together and freely interbreed to produce sterile offspring
- C. two populations share the same environment but cannot interbreed
- D. two populations are isolated but occasionally come together to interbreed.

Ans: C

Q2: Populations are said to be allopatric when \_\_\_\_\_.

- A. they are physically isolated by natural barriers
- B. they live together and breed freely to produce viable offspring
- C. they are isolated but often come together for breeding
- D. none of the above

Ans: A

Q3: Polyploid derived from two different species is called

- A. Autopolyploid
- B. Triploid
- C. Allopolyploid
- D. Monoploid

Ans: C

Q4: Pollen grains of a plant whose  $2n = 28$  are cultured to get callus by tissue culture method. What would be the number of chromosomes in the cells of the callus?

- A. 21
- B. 14
- C. 56
- D. 28

Ans: B

Q5: Pinus belongs to the class \_\_\_\_\_.

- A. Gentopsida
- B. Cycadopsida
- C. Coniferopsida
- D. Sphenopsida

Ans: C

Q6: Pieces of plant tissue used in tissue culture is called-

- A. Explant
- B. Somaclone
- C. Inoculant

D. Clone

Ans: A

Q7: Palaeontologists unearthed a human skull during excavation. A small fragment of the scalp tissue was still attached to it. Only little DNA could be extracted from it. If the genes of the ancient man need to be analysed, the best way of getting sufficient amount of DNA from this extract is-

- A. Subjecting the DNA to polymerase chain reaction
- B. Subjecting the DNA to gel electrophoresis
- C. Treating the DNA with restriction endonucleases
- D. Hybridising the DNA with a DNA probe

Ans: A

Q8: Ovule integument gets transformed into-

- A. Seed
- B. fruit wall
- C. seed coat
- D. cotyledons

Ans: C

Q9: Osteomalacia is a deficiency disease of

- A. Infants due to protein energy malnutrition
- B. Adults due to protein energy malnutrition
- C. Adults due to Vitamin D deficiency
- D. Infants due to Vitamin K deficiency

Ans: C

Q10: Nosema bombycis which causes pebrine in silk worms is a-

- A. Virus
- B. Bacterium
- C. Protozoan
- D. Fungus

Ans: C

Q11: Name the hormone that has no role in menstruation.

- A. LH
- B. FSH
- C. GH
- D. TSH

Ans: C

Q12: Name the following having oxygen storing capacity

- A. Myoglobin
- B. Prophase II
- C. Anaphase I
- D. Metaphase II

Ans: A

Q13: Movement of tongue muscle is controlled by-

- A. facial nerve
- B. trigeminal nerve
- C. hypoglossal nerve
- D. vagus nerve

Ans: C

Q14: Pick the mammal with true placenta

- A. Kangaroo
- B. Echidna
- C. Platypus
- D. Mongoose

Ans: D

Q15: Most of the endangered species are the victims of

- A. Habitat destruction
- B. Over-hunting
- C. Acid rain
- D. Competition with introduced species

Ans: A

Q16: Bovine spongiform encephalopathy is a disease caused by prions in a \_\_\_\_\_.

- A. cow
- B. sheep
- C. man
- D. potato

Ans: A

Q17: Blood stains are found at the site of a murder. If DNA profiling technique is to be used for identifying the criminal, which of the following is ideal for use?

- A. Erythrocytes
- B. Leucocytes
- C. Platelets
- D. Serum

Ans: B

Q18: BT brinjal is an example of transgenic crops. In this, BT refers to

- A. Bacillus tuberculosis
- B. Biotechnology
- C. Betacarotene
- D. Bacillus thuringiensis

Ans: D

Q19: BY the statement 'survival of the fittest', Darwin meant that \_\_\_\_\_.

- A. The strongest of all species survives
- B. The most intelligent of the species survives
- C. The cleverest of the species survives
- D. The most adaptable of the species to changes survives

Ans: D

Q20: Casparian strips are present in the \_\_\_\_\_ of the root.

- A. epiblema
- B. cortex
- C. pericycle
- D. endodermis

Ans: D

