

GUJCET 2024 Question Paper Mar 31 (Biology)

Ques 1. Which of the following sexually transmitted infections are spread by other means besides sexual intercourse?

Ans. Hepatitis - B

Ques 2. What does the pointed 'X' in the figure below represent?

Ans. Tumbaika

Ques 3. On which chromosome of each parent is the gene controlling β - thalassemia located?

Ans. 11th

Ques 4. In in vitro fertilization, the process in which more than 8-celled embryos are transferred to the uterus to complete further development is called what?

Ans. IUT

Ques 5. If mother's blood group is 'A' and father's blood group is 'O', then what can be the blood group of their child?

Ans. A or O

Ques 6. "The fetus never passes through the adult stages of other animals" said? Who said this statement?

Ans. Carl Ernst von Bayer

Ques 7. Which of the following is an example of function membership?

Ans. Sweet potatoes and potatoes

Ques 8. Which of the following does not affect the Hardy-Weinberg equilibrium?

Ans. Adaptive diffusion

Ques 9. How many types of receptors are present in a cell?

Ans. 61

Ques 10. If a double-stranded DNA contains 30% adenine, state the percentage of cytosine in the same DNA.

Ans. 20%

Ques 11. Based on which of the following symptoms, doctor 'X' will diagnose the patient with pneumonia.

Ans. Lips and fingernails have turned gray and blue.

Ques 12. Which of the following groups is included in the secondary lymphatic organs?

Ans. Segments of duodenum, tonsils, small intestine pairs

Ques 13. What is cirrhosis?

Ans. Liver disease caused by excessive alcohol addiction.

Ques 14. Which of the following statements is correct?

- (i) Baculoviruses are considered best members for species-specific, short-spectrum insecticide applications.
- (ii) *Bacillus thuringiensis* is used to control butterfly caterpillars.
- (iii) Use of ladybirds is very beneficial in getting rid of mosquitoes.
- (iv) Trichoderma fungi are used in the treatment of diseased animals under biocontrol.

Ans. Both (i) and (ii)

Ques 15. DNA polymerase isolated from which of the following bacteria is used in PCR method.

Ans. *Thermos aquaticus*

Ques 16. ELISA method works on which of the following principles?

Ans. Antigen-antibody interactions

Ques 17. α - 1 antitrypsin is used to treat which disease?

Ans. emphysema

Ques 18. In which mechanism specific mRNA is inactivated after binding to complementary dsRNA?

Ans. RNAi

Ques 19. Which naturalist gives an explanation of species-territory relationships?

Ans. Alexander von Humboldt

Ques 20. What interaction occurs between oceanic and cloven fish?

Ans. Cohabitation