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CBSE 12th Biology 2007 Unsolved Paper Delhi Board

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CBSE 12th Biology 2007 Unsolved Paper

Delhi Board

TIME - 3HR. | QUESTIONS - 30

THE MARKS ARE MENTIONED ON EACH QUESTION

SECTION-A

- Q. 1. A male honeybee has 16 chromosomes whereas, its female has 32 chromosomes. Give one reason. 1 marks**
- Q. 2. What is a Cistron? 1 marks**
- Q. 3. State a reason for the increased population of dark colored moths coinciding With the loss of lichens (on tree barks) during industrialization period in England. 1 marks**
- Q. 4. Why is it not possible for an alien DNA to become part of a chromosome anywhere along its length and replicate normally?**
- Q.5. How is 'stratification' represented in a forest ecosystem? 1marks**
- Q. 6. Why is the enzyme cellulase needed for isolating genetic material from plant cells and not from the animal cells? 1 marks**
- Q. 7. Why is the use of unleaded petrol recommended for motor vehicles equipped with catalytic converters? 1 marks**
- Q. 8. Mention two functions of the codon AUG. 1 mark**

SECTION – B

- Q. 9. (a) Highlight the role of thymus as a lymphoid organ.**
(b) Name the cells that are released from the above-mentioned gland. Mention how they help in immunity. 2 marks
- Q. 10. How is 'Rosie' considered different from a normal cow? Explain. 2 marks**
- Q. 11. Justify with the help of an example where a deliberate attempt by humans has led to the extinction of a particular species. 2 marks**

Q. 12. Why is the introduction of genetically engineered lymphocytes into a ADA deficiency patient not a permanent cure? Suggest a possible permanent cure. 2 marks

Q.13. Explain the contribution of thermus aquaticus in the amplification of a gene of interest. 2 marks

**Q.14. (a) Name the lymphoid organ in humans where all the blood cells are produced.
(b) Where do the lymphocytes produced by the Pymphoid organ mentioned above migrate and how do they affect immunity? 2 marks**

Q. 15. What is divergent evolution? Explain taking an example of plants. 2 marks

Q. 16. Suggest four important steps to produce a disease resistant plant through conventional plant breeding technology. 2 marks

Q. 17. (a) Select the homologous structures from the combinations given below:

- (i) Forelimbs of whales and bats
 - (ii) Tuber of potato and sweet potato
 - (iii) Eyes of octopus and mammals
 - (iv) Thorns of Bougainvillea and tendrils of Cucurbita.
- (b) State the kind of evolution they represent. 2 marks**

Q. 18. Mention a product of human welfare obtained with the help of each one of the following microbes: 2 marks

- (a) LAB
- (b) *Saccharomyces cerevisiae*
- (c) *Propionibacterium sharmanii*
- (d) *Aspergillus Niger*

SECTION-C

Q. 19. Explain any three advantages the seeds offer to angiosperms. 3 marks

Q. 20. Make a list of any three outbreeding devices that flowering plants have developed and explain how they help to encourage cross-pollination. 3 marks

Q. 21. State what is apomixis. Comment on its significance. How can it be commercially used? 3 marks

Q. 22. (a) Why is human ABO blood group gene considered a good example of multiple alleles?

- (b) Work out a cross up to F₂ generation only, between a mother with blood group A (Homozygous) and the father with blood group B (Homozygous). Explain the pattern of inheritance exhibited. 3 marks**

- (b) Mention one advantage of apomictic seeds to farmers.**
(c) Draw a labelled mature stage of a dicotyledonous embryo.



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