

Perfect solution to all problems

Tips, Tricks, General Knowledge, Current Affairs, Latest Sample, Previous Year, Practice Papers with solutions.

CBSE 12th Biology 2007 Unsolved Paper Delhi Board

By Solution: <u>http://www.4ono.com/cbse-12th-biology-previous-year-solved-papers/</u>

Note

This pdf file is downloaded from <u>www.40no.com</u>. Editing the content or publicizing this on any blog or website without the written permission of <u>Rewire Media</u> is punishable, the suffering will be decided under

CBSE 12th Biology 2007 Unsolved Paper Delhi Board

40no.com

TIME - 3HR, | QUESTIONS - 30

THE MARKS ARE MENTIONED ON EACH QUESTION

SECTION-A

ono con

lono.com

- Q. l. A male honeybee has 16 chromosomes whereas, its female has 32 chromosomes. Give one reason. I 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? 1 marks
- 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. J man

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 mark.

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

- 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 mark
- 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

4ono.com

- (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

4ono.com

4ono.com

4ono.com

40no.com

- 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 F, 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

Q.23. Explain mutualism with the help of any two examples. How is it different from commensalism? 3 marks

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

40no.com

- Q.24. Explain mutualism with the help of any two examples. How is it different from commensalism? 3 marks
- Q. 25. (a) Write the importance of measuring the size of a population in a habitat or an ecosystem.
 - (b) Explain with the help of an example how the percentage cover is a more meaningful measure of population size than mere numbers. 3 marks
- Q. 26. By the end of 2002 the public transport of Delhi switched over to a new fuel. Name the fuel. Why is this fuel considered better? Explain.
- Q. 27. Alien species are highly invasive and are a threat to indigenous species. Substantiate this statement with any three examples.

SECTION - D

4ono.com

4ono.com

- Q.28. (a) Plan an experiment and prepare a flow chart of the follow steps that you would to ensure that the seeds are formed only from the desired sets of pollen grains. Name the type of experiment that you carried out.
 - (b) Write the importance of such experiments. 5 mark

OR

Describe the roles of pituitary and ovarian hormones during the menstrual cycle in a human female.

Q. 29. "Analysis of age-pyramids for human population can provide important inputs for long-term planning strategies." Explain. 5 marks

OR

Describe the advantages for keeping the ecosystems healthy.

- Q.30. (a) Where does fertilization occur in humans? Explain the events that occur during this process.
 - (b) A couple where both husband and wife are producing functional gametes, but the wife is still unable to conceive, is seeking medical aid. Describe any one method that you can suggest to this couple to become happy parents. 5 marks

OR

(a) Explain the different ways apomictic seeds can develop. Give an example of each.

(b) Mention one advantage of apomictic seeds to farmers.

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

(c) Draw a labelled mature stage of a dicotyledonous embryo.

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com

4ono.com



Download More @ www.4ono.com