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CBSE 12th Biology 2013 Unsolved Paper Outside Delhi

TIME - 3HR. | QUESTIONS - 30

THE MARKS ARE MENTIONED ON EACH QUESTION

SECTION-A

- Q. 1. Name an organism where cell division in itself is a mode of reproduction. 1 marks**
- Q. 2. When does a human body elicit an anamnestic response? 1 marks**
- Q.3. Name any two diseases the 'Himgiri' variety of wheat is resistant to. 1 marks**
- Q. 4. State the role of transposons in silencing of mRNA in eukaryotic cells. 1 marks**
- Q. 5. Why are green algae not likely to be found in the deepest strata of the ocean? 1 marks**
- Q. 6. State what does 'standing crop' of a trophic level represent. 1 marks**
- Q. 7. Why is the use of unleaded petrol recommended for motor vehicles equipped with catalytic converters? 1 marks**
- Q. 8. Name the type of biodiversity represented by the following: 1 marks**
- (i) 1000 varieties of mangoes in India.
 - (ii) Variations in terms of potency and concentration of reserpine in *Rauwolfia vomitoria* growing in different regions of Himalayas.

SECTION-B

- Q. 9. In angiosperms, zygote is diploid while primary endosperm cell is triploid. Explain. 2 marks**
- Q.10. A cross between a red flower bearing plant and a white flower bearing plant of *Antirrhinum* produced all plants having pink flowers. Work out a cross to explain how this is possible. 2 marks**
- Q. 11. List the two main propositions of Oparin and Haldane. 2 marks**

Q.12. write the events that take place when a vaccine for any disease is introduced into the human body. 2 marks

OR

Why is a person with cuts and bruise following an accident administered tetanus antitoxin? Give reasons.

Q. 13. Name the bacterium responsible for the large holes seen in "Swiss Cheese". What are these holes due to? 2 marks

Q. 14. Name the source of the DNA polymerase used in PCR technique. Mention why it is used. 2 marks

Q. 15. Write any four ways used to introduce a desired DNA segment into a bacterial cell in recombinant technology experiments. 2 marks

Q. 16. Why is proinsulin so called? How is insulin different from it? 2 marks

Q. 17. Giving two reasons explain why there is more species biodiversity in tropical Latitudes than in temperate ones. 2 marks

Q. 18. "It is possible that a species may occupy more than one trophic level in the same ecosystem at the same time." Explain with the help of one example. 2 marks

SECTION-C

Q.19. Suggest and explain any three Assisted Reproductive Technologies (ART) to an infertile couple. 3 marks

Q. 20. Why are human females rarely haemophilic? Explain. How do haemophilic patients suffer? 3 marks

Q. 21. In a maternity clinic, for some reasons the authorities are not able to hand Over the two new-borns to their respective real parents. Name and describe the technique that you would suggest to sort out the matter. 3 marks

Q. 22. Explain the increase in the numbers of melanic (dark winged) moths in the urban areas of post-industrialisation period in England. 3 marks

Q. 23. Describe how biogas is generated from activated sludge. List the components Of biogas. 3 marks

- Q. 24. Name the pest that destroys the cotton bolls. Explain the role of *Bacillus thuringiensis* in protecting the cotton crop against the pest to increase the yield. 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. Differentiate between two different types of pyramids of biomass with the help of one example of each. 3 marks**
- Q.27. (a) Describe the endosperm development in coconut. 3 marks
(b) Why is tender coconut considered a healthy source of nutrition?
(c) How are pea seeds different from castor seeds with respect to endosperm?**

SECTION-D

- Q. 28. (a) Draw a L.S. of a pistil showing pollen tube entering the embryo-sac in an angiosperm and label any six parts other than stigma, style and ovary.
(b) Write the changes a fertilized ovule undergoes within the ovary in an angiosperm plant. 5 marks**

OR

- (a) Draw a diagrammatic sectional view of a human seminiferous tubule, and label Sertoli cells, primary spermatocyte, sperm-atogonium and spermatozoa in it.
(b) Explain the hormonal regulation of the process of spermatogenesis in humans.**
- Q. 29. (a) Write the conclusion drawn by Griffith at the end of his experiment with *Streptococcus pneumoniae*.
(b) How did Ovary, C. Macleod and M. McCarty prove that DNA was the genetic material? Explain. 5 marks**

OR

Study the flow chart given below. Name the hormones involved at each stage and explain their function.

Hypothalamus



Pituitary



ovary



Pregnancy

Q. 30. A person in your colony has recently been diagnosed with AIDS. People/ residents in the colony want him to leave the colony for the fear of spread of AIDS. 5 marks

- (a) write your view on the situation, giving reasons.**
- (b) List the possible preventive measures that you would suggest to the residents of your locality in a meeting organized by you so that they understand the situation.**
- (c) Write the symptoms and the causative agent of AIDS.**

