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# CBSE 12th Biology 2011 Unsolved Paper Outside Delhi

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# CBSE 12th Biology 2011 Unsolved Paper Outside Delhi

TIME - 3HR. | QUESTIONS - 30

THE MARKS ARE MENTIONED ON EACH QUESTION

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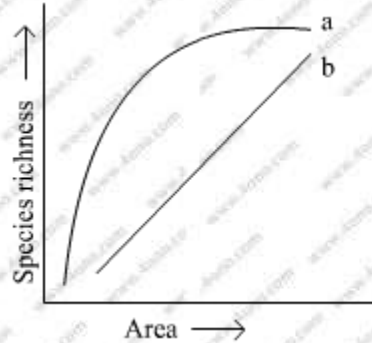
- Q. 1.** Name the embryonic stage that gets implanted in the uterine wall of a human female. *1 mark*
- Q.2.** State the importance of bio-fortification. *1 mark*
- Q. 3.** What is the interaction called between *Cucuta* and shoe flower bush? *1 mark*
- Q. 4.** How do algal blooms affect the life in water bodies? *1 mark*
- Q. 5.** Name the common ancestor of the great apes and man. *1 mark*
- Q. 6.** Write a difference between net primary productivity and gross productivity. *1 mark*
- Q. 7.** Mention the contribution of genetic maps in human genome project. *1 mark*
- Q. 8.** Name the phase all organisms have to pass through before they can reproduce sexually. *1 mark*

## SECTION – B

- Q. 9.** Name the enzyme produced by *Streptococcus* bacterium. Explain its importance in medical sciences. *2 marks*
- Q. 10.** How is 'Rosie' considered different from a normal cow? Explain. *2 marks*
- Q. 11.** State the use of Biodiversity in modern agriculture. *2 marks*
- Q. 12.** Write the full form of VNTR. How is VNTR different from 'probe'? *2 marks*
- Q. 13.** Differentiate between benign and malignant tumours. *2 marks*
- Q. 14.** Differentiate between in situ and ex situ approaches of conservation of biodiversity. *2 marks*

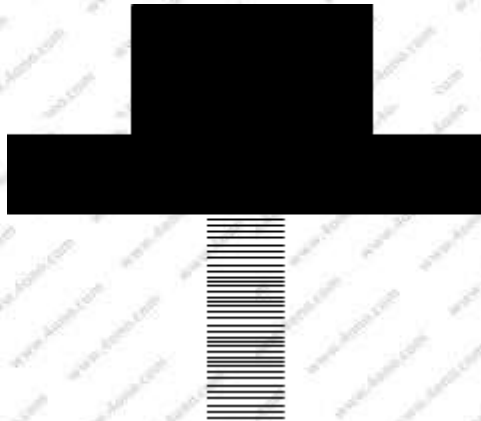
OR

The above graph show Species-Area relationship. write the equation of the curve 'a' and explain.



Q. 15. The cell division involved in gamete formation is not of the same type in different organisms. Justify. *2 marks*

Q.16.



Identify the type of the given ecological pyramid and give one example each of pyramid of number and pyramid of biomass in such cases. *2 marks*

Q. 17. Describe the Lactational Amenorrhea method of birth control. *2 marks*

Q. 18. What is genetic engineering List the steps in rDNA technology. *2 marks*

SECTION – C

Q. 19. Draw a labelled diagram of the reproductive system in a human female. *3 marks*



**Q. 20. Branching descent and natural selection are the, two key concepts of Darwinian Theory of Evolution. Explain each concept with the help of a suitable example. 3 marks**

**Q. 21. Scientists have succeeded in recovering healthy sugarcane plants from a diseased one. 3 marks**

- Name the part of the plant used as explant by the scientists.
- Describe the procedure the scientists followed to recover the healthy plants.
- Name this technology used for crop improvement.

**Q.22. (i) Name the enzyme that catalyses the transcription of hnRNA.**

**(ii) Why does the hnRNA need to undergo changes? List the changes hnRNA undergoes and where in the cell such changes take place. 3 marks**

**Q. 23. (i) Write the scientific names of the two species of filarial worms causing filariasis.**

**(ii) How do they affect the body of infected person(s)?**

**(iii) How does the disease spread? 3 marks**

**Q.24. Name the genus to which baculoviruses belong. Describe their role in the integrated pest management programmes. 3 marks**

**Q. 25. Unambiguous, universal and degenerate are some of the terms used for the genetic code. Explain the salient features of each one of them. 3 marks**

**Q .26. Water is very essential for life. Write any three features both for plants and animals which enable them to survive in water scarce environment. 3 marks**

**OR**

**How do organisms cope with stressful external environmental conditions which are localised or of short duration?**

**Q, 27. (i) State the consequence if the electrostatic precipitator of a thermal plant fails to function. 3 marks**

**(ii) Mention any four methods by which the vehicular air pollution can be controlled**

**SECTION – D**

**Q.28. Give reasons why: 5 marks**

- most zygotes in angiosperms divide only after certain amount of endosperm is formed.
- ground nut seeds are exalbuminous and castor seeds are albuminous.
- Micropyle remains as a small pore in the seed coat of a seed.
- integuments of an ovule harden and the water content is highly reduced, as the seed matures.

(v) apple and cashew are not called true fruits.

OR

(a) Draw a labelled diagram of L.S. of an embryo of grass (any six labels).

(b) Give reason for each of the following:

(i) Anthers of angiosperm flowers and described as ditheous.

(ii) Hybrid seeds have to be produced year after year

**Q. 29. Describe the mechanism of pattern of inheritance of ABO blood groups in humans. 5 marks**

OR

(a) Why is hemophilia generally observed in human males? Explain the conditions under which a human female can be hemophilic.

(b) Draw the male Reproductive system.

**Q.30. (i) Describe the characteristics a cloning vector must possess.**

**(ii) Why DNA cannot pass-through the cell membrane? Explain. How is a bacterial cell made competent' to take up recombinant DNA from the medium? 5 marks**

OR

If a desired gene is identified in an organism for some experiments, explain the process of the following:

(i) Cutting this desired gene at specific location

(ii) Synthesis of multiple copies of this desired gene

