



BIOLOGY

BOOKS - USHA BIOLOGY (ODIA ENGLISH)

QUESTION PAPER 2018

Previous Year Question

1. Choose the correct option

The process by which scion is inserted

successfully into the stock to form a new plant
is called

A. layering

B. cutting

C. grafting

D. budding

Answer: C



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2. In, pollen tube enters through micropyle into the ovule.

A. porogamy

B. chalazogamy

C. mesogamy

D. herkogamy

Answer: A



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3. If allele for tallness (TT) is dominant and dwarfness (tt) is recessive , then in cross between _____ 50 % of the offsprings will be dwarf .

A. `

B.

C.

D.

Answer: B



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4. In secondary treatment of sewage in open bioreactors , the microorganisms grow and multiply to form _____

A. manure

B. compost

C. sludge

D. sediment

Answer: C



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5. When propagating unit like seeds and spores enter a barren area to initiate the process of succession , it is called :

A. nudation

B. reaction

C. ecesis

D. migration

Answer: D



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6. Write notes with 2 to 3 important points :

Food Chain



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7. Write notes with 2 to 3 important points :

Codominance



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8. Write notes with 2 to 3 important points :

Biofortification



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9. Write notes: Alcoholic beverages



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10. Write notes with 2 to 3 important points :

Biodiversity hot spots



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11. Write notes with 2 to 3 important points :

Lac Operon concept



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12. Distinguish between: Genetic diversity and

species diversity



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13. Differentiate between the following with 2 to 3 important points : Explant and Callus



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14. Differentiate between nuclear endosperm and cellular endosperm



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15. Give an account of development of female gametophyte in angiosperms.



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16. Describe initiation step of translation in prokaryotes.



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17. Answer within 200 words : Give an account of secondary air pollutants .



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18. Discuss Mendel's dihybrid cross with checker board.



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19. Which species of honeybees is commercially cultivated?

- A. *Apis florea*
- B. *Apis dorsata*
- C. *Apis mellifera*
- D. *Apis indica*

Answer:



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20. Human embryo is protected by which cavity?

- A. Pleural cavity
- B. Amniotic cavity
- C. Peritoneal cavity
- D. neural cavity

Answer:



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21. Which is an exotic breed of cattle?

A. Sahiwal

B. Jersey

C. Gir

D. Red Sindhi

Answer:



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22. Fill in the blanks with the correct answer(s): Genetically engineered rice rich in vitamin A is known as ____.



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23. Fill in the blanks with the correct answer(s): The infective stage of malarial parasite is ____.



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24. Fill in the blanks with the correct answer(s): The transgenic mouse is called as ____.



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25. Write notes on : Innate immunity



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26. What is Hardy -Weinberg principle?





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27. What is gene flow?



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28. What is recombinant vaccine?



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29. What is patent?





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30. What are gestation and parturition?



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31. Differentiate between : Corpus luteum and corpus albicans.



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32. Differentiate between : Broilers and layers



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33. Differentiate between : Ex Vivo gene therapy and in Vivo gene therapy.



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34. Give an account of the human female reproductive system,



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35. Discuss theory of natural selection proposed by darwin.



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36. Describe the chromosomal basic of sex determination in human,honey bee and birds.



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37. Write a note on seminiferous tubules.



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38. What is Down's syndrome ?



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39. Write notes on : Thalassemia.



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40. Write notes on : Genetically modified organism.



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