



BIOLOGY

BOOKS - UNITED BOOK HOUSE

2018 QUESTION PAPER

Exercise

1. Which one of the following is not an endangered species? A) Snow leopard B) Indian lion C) Gharial D) Wolf

A. Snow leopard

B. Indian lion

C. Gharial

D. Wolf

Answer:



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2. The formula of Natality is - A) $N = t/nD$ B) $N = nD/t$ C) $M = md/t$ D) $M = t/md$

$$\text{A. } N = \frac{t}{nD}$$

$$\text{B. } N = \frac{nD}{t}$$

$$\text{C. } M = \frac{mD}{t}$$

$$\text{D. } M = \frac{t}{mD}$$

Answer:



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3. To which of the following the term 'Deep litter' process is associated?

A. Dairy farm

B. Apiculture

C. Fishery

D. Poultry farm.

Answer:



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4. Who proposed the theory of Bio-chemical origin of life for the first time?

A. Darwin

B. Heackel

C. Oparin

D. Fox

Answer:



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5. If father is normal but mother is a carrier of colour blindness then which offsprings will be colour blind?

A. all daughters will be carrier

B. all daughters will be normal

C. half of the sons will be normal and the other half will be colour blind

D. both (b) and (c)

Answer:



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6. When male and female gametes are produced and unite in the same body then it is called-

A. Isogamy

B. Oogamy

C. Endogamy

D. Autogamy.

Answer:



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7. Name of the pathogen which causes syphilis is -

- A. *Treponema pallidum*
- B. *Neisseria gonorrhoeae*
- C. *Trichomonas vaginalis*
- D. *Chlamydia trachomatis*.

Answer:



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8. Which one of the following is present in Transgenic 'golden Rice' in huge quantity?

A. Vitamin D

B. Methionine

C. Lysine

D. β - carote \neq .

Answer:



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9. The overall species diversity among different communities belonging to different ecosystems within a large geographic area is called-

- A. Alpha diversity
- B. Beta diversity
- C. Gamma diversity
- D. Genetic diversity.

Answer:



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10. By which enzyme is nucleic acid cleaved?

A. Nuclease

B. Protease

C. Ligase

D. Polymerase

Answer:



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11. Interferons act against-

A. Protoszoa

B. Gungi

C. Bacteria

D. Virus

Answer:



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12. Which of the following three codes function as termination signal in protein synthesis?

A. UAA, UGA UAG

B. UUU, UAU, UCC

C. UUG, UCG, UCA

D. UUC, UUA, UAC

Answer:



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13. The karyotype of persons having Klinefelter's syndrome is

A. 47, XXY

B. 45, X

C. 47, +21

D. 46, XY

Answer:



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14. The nucellus of an ovule is A) Haploid B) Diploid C) Triploid D) Polyploid

A. Haploid

B. Diploid

C. Triploid

D. Polyploid.

Answer:



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15. Give the relation between Gross Primary Production and Net Primary Production.



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16. Mention any one difference between Heliophyte and Sciophyte.



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17. What do you mean by emasculation?



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18. Who proposed the law of adaptive radiation?



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19. In which type of plant conidia is the unit of asexual reproduction?



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20. What is menopause?



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21. What do you mean by Grafting?



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22. By which surgical methods permanent contraception is done in male and female human body?





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23. What do you mean by central dogma?



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24. What do you mean by Pleiotropy? Give example.



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25. What do you mean S.C.P.? Give exmample.



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26. In Biotechnology, which two enzymes are commonly called 'moleoular scissor' and 'molecular glue'?



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27. What do you mean by 'Chipko Movement'?



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28. What is Biomagnification? Give example.



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29. Mention the importance of Amniocentesis.

What is I.U.D. ?



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30. Write a short note on Nucleosome.



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31. Describe the structure of Lac operon in brief.



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32. Mention any three types of molecular evidences of evolution with example.



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33. Describe in brief the structure of a typical antibody with labelled diagram.



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34. Write the symptoms of Filariasis in brief. Mention the scientific name of the pathogen causing this disease.



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35. Name one bacterial disease of poultry birds. What do you mean by Poultry farm Management?



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36. Mention the use of any three bacteria as biofertilizer.



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37. Mention the use of any three bacteria in industrial production.



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38. Describe in brief the process of human insulin production by Biotechnology.



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39. What do you mean by cDNA? What is transfection?



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40. What is Bt cotton? Give an example of a biopatent.



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41. What do you mean by volant adaptation in Animals? What is Patagia?



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42. Write the role of following in DNA replication: Primase Explain polygenic inheritance with example.



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43. Write the role of following in DNA replication: Helicase. Explain polygenic inheritance with example.



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44. Write the role of following in DNA replication: DNA Polymerase-III. Explain polygenic inheritance with example.



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45. Describe the significance of global warming. Describe the reasons for extinction of Biodiversity.



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46. Mention the conditions for determination of biodiversity Hot-spot. Describe any three kinds of population interaction with example.



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