



BIOLOGY

BOOKS - UNITED BOOK HOUSE

2015 QUESTION PAPER

Exercise

1. The chromosome number of a spore mother cell of a certain angiosperm is 24. What will be

the chromosome number of its endosperm cell?

A. 24

B. 12

C. 48

D. 36

Answer:



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2. When many phenotypic traits are controlled by only one gene, this phenomenon is known as

A. Multiple Allele

B. Epistasis

C. Pleiotropy

D. Incomplete dominance

Answer:



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3. AUG' is the genetic code for which of the following amino acids?

A. Methionine

B. Tyrosine

C. Valine

D. Serine

Answer:



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4. T-lymphocytes are responsible for which kind of immunity?

- A. Inborn immunity
- B. Humoral
- C. Cellular immunity
- D. None of these

Answer:



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5. Chipko Movement' is related to which one of the following?

A. Salim Ali

B. Amrita Devi

C. S. Bahuguna

D. J. L. Nehru

Answer:



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6. Commercially human population will be

A. S' shaped

B. J' shaped

C. Z' shaped

D. None of these

Answer:



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7. Where do you find binary fission?

A. Bacteria

B. Starfish

C. Tapeworm

D. Riccia

Answer:



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8. An essential component of a contraceptive pil is

A. Thyroxine

B. Oxytocin

C. Progesterone

D. Testosterone.

Answer:



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9. Who proved for the first time that the origin of life is not spontaneous?

A. Operin

B. Pasteur

C. Urey and Miller

D. Haldane

Answer:



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10. Coacervate is

A. lipoprotein

B. mixture of ammonia, carbohydrate and water

C. fatty acid

D. colloidal material

Answer:



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11. Which of the following is responsible for ozone layer destruction?

A. CFC

B. Oxides of nitrogen

C. CH_4

D. All of these

Answer:



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12. Process for obtaining large number of plantlets through tissue culture is known as

- A. Plantlet culture
- B. macropropagation
- C. Organ culture
- D. Micropropagation

Answer:



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13. Which one of the following is called 'molecular scissors'?

- A. Taq polymerase
- B. Recombinant DNA
- C. Restriction endonuclease
- D. None of these

Answer:



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14. What is biome?



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15. Name one fungal bio-control agent.



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16. Name the organism responsible for filariasis



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17. Give an example of co-dominance.



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18. Name the lactogenic hormone.

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19. What is geitonogamy?

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20. Distinguish between isogamy and oogamy.



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21. What is nucleosome?

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22. Mention any two symptoms of Turner's syndrome and klinefelter's syndrome.

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23. Give scientific names of two exotic carps.



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24. Give two examples of bio-piracy.



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25. What is gene therapy? Give an example.



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26. Define ecological diversity.



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27. What is ex-situ conservation? Give an example.



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28. What is amniocentesis? What is its significance?



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29. What is sex chromosome? Give the method of sex determination in honeybee.



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30. Give the significance of principles of Hardy-Weinberg equilibrium.



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31. What is biofertilizer? Write how microbes are used as biofertilizer.



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32. What is drug abuse? Give an example each of a stimulant and a tranquilizer drug.



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33. Name one bacterial disease of poultry birds. Mention its main symptom and control.



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34. What is hybridization? Mention the ways by which emasculation is done.



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35. Define genetic engineering. Name one genetically modified organism.



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36. What is transgenic cell? Mention two ways in which vector with recombinant DNA is introduced into a cell.



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37. Mention three aspects of Bio-safety issues.



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38. Mention types of RNA and their functions.



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39. Describe the initiation phase of translation process.



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40. What do you mean by productivity and decomposition? What is microclimate?



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41. mention the ways in which water becomes polluted.



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42. What is menstrual cycle? Describe briefly the uterine changes during different phases of the menstrual cycle.



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43. Describe the fertilization process of a flowering plant mentioning the formation of endosperm and embryo.



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44. Give evidences in favour of chromosomal theory of inheritance. What is crossing over?



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45. What is central dogma of molecular biology? Describe the main features of transcription process.



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46. What do you mean by greenhouse effect?

State the significance of global warming.



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