



BIOLOGY

BOOKS - ARIHANT PRAKASHAN

VERY SIMILAR TEST 2

Section A Botany

1. Fill in the blanks selecting the appropriate terms given under each bit:

World.s most problematic aquatic weed is

A. Azolla

B. Wolfia

C. Eichhornia

D. Trapa

Answer: B



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2. Fill in the blanks selecting the appropriate terms given under each bit:

5. - 3. exonuclease activity is shown by

A. DNA Polymerase I

B. DNA Polymerase III

C. DNA Polymerase II

D. Eco RI

Answer: A



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3. Fill in the blanks selecting the appropriate terms given under each bit:

During microsporogenesis, meiosis occurs in

A. endothecium

B. microspore mother cells

C. microspore tetrads

D. pollen grains

Answer: B



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4. ZZ/ZW type of sex-determination is seen in

A. platypus

B. snails

C. frog

D. peacock

Answer: D



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5. Which one of the following alcoholic drinks is produced without distillation ?

A. wine

B. whisky

C. rum

D. brandy

Answer: A



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6. Correct the statement of each bit if necessary by changing the underlined word only:

Flow of nutrients in ecosystem is unidirectional.



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7. Correct the statement of each bit if necessary by changing the underlined word only:

Synthesis of DNA is called translation.



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8. Correct the statement of each bit if necessary by changing the underlined word only:

An undifferentiated mass of cells is called protoplast.



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9. Correct the statement of each bit if necessary by changing the underlined word only:

Amoeba generally reproduces sexually by fission.



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10. Correct the statement of each bit if necessary by changing the underlined word only:

In an embryo sac, eggs and antipodal cells degenerate after fertilisation.



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11. Write short note of the following with two important points :

Importance of decomposer in an ecosystem



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12. Write notes with 2 to 3 important points :

Competition



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13. Writes Short Notes on : Asexual reproduction:



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14. Write short notes of the following, each with two to three important points:

Apomixis



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15. Write short notes of the following, each with two to three important points:

Emasculation



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16. Write short notes of the following, each with two to three important points:

RNA splicing



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17. Differentiate between any one pair of the following with three to four important points.

Mass selection and Pureline selection



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18. Differentiate between Mutualism and Competition.



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19. Differentiate between any one pair of the following with three to four important points.

Hypocotyl and Epicotyl



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20. What is meant by cross-pollination? Why do plants need to cross breed?



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21. Describe Transcription in Prokaryotes?



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



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23. Give a detailed account of industrial application of microbes.



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Section B Zoology

1. Give the correct answer in single word-
Which bacterium is called as natural genetic engineer?



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2. Choose the correct answer from the choices given under each bit/Give the answer in one word only:

Opium is obtained from which plant?



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3. Choose the correct answer from the choices given under each bit/Give the answer in one word only:

Sertoli cells provide nutrition to

A. ovum

B. sperm

C. embryo

D. None of the above

Answer:



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4. Which one is the method of birth control ?

A. HTF

B. GIFT

C. IUDs

D. IVF-ET

Answer:



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5. Choose the correct answer from the choices given under each bit/Give the answer in one word only:

Mendelian recombination is due to

A. independent assortment of genes

B. linkage of genes

C. mutation

D. dominance

Answer:



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6. Fill in the blanks with correct answer (s)/Correct the underlined portion of the sentences:

Same structures develop differently due to different needs through convergent evolution.



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7. Fill in the blanks with correct answer (s)/Correct the underlined portion of the sentences:

Cryptozoites in life cycle of Plasmodium are found in of man.



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8. Fill in the blanks with correct answer (s)/Correct the underlined portion of the sentences:

Cancer of skin is known as



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9. Fill in the blanks with correct answer (s)/Correct the underlined portion of the sentences:

Artificial technique..... is used to increase the herd size in a short period of time.



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10. Fill in the blanks with correct answer (s)/Correct the underlined portion of the sentences:

Kalyan Sona is wheat variety resistant to leaf and stipe rust.



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11. Answer any three of the following (restrict each answer to two or three important sentences):

What is autoimmunity?



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12. Answer any three of the following (restrict each answer to two or three important sentences):

Why is gene encoding for Cry protein inserted into a crop plant?



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13. Answer any three of the following (restrict each answer to two or three important sentences):

What is vasectomy?



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14. Answer any three of the following (restrict each answer to two or three important

sentences):

What is paleontology?



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15. Answer any three of the following (restrict each answer to two or three important sentences):

What is addiction?



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16. Write a short note on biofortification.



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17. Differentiate between any one of the following pairs (restrict the answer to three or four important differences):

Aquaculture and Pisciculture



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18. Differentiate between any one of the following pairs (restrict the answer to three or four important differences):

Humoral and Cell-mediated immunity



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19. Differentiate between any one of the following pairs (restrict the answer to three or four important differences):

Replication and Transcription





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20. Write a short note on Cro-Magnon man.



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21. Write short notes on any two of the following:

Down.s syndrome



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22. Write short notes on any two of the following:

Population explosion



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23. Write a short note on placenta.



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24. Give an account of the secondary sex organs of human male reproductive system



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25. Explain the chromosomal basis of sex-determination in animals.



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26. Describe the methods of transformation of a host cell. Why are these methods used in RDT?



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