



BIOLOGY

BOOKS - ARIHANT PRAKASHAN

VERY SIMILLAR TEST 6

Section A Botany Group A

1. The Bharat Emission Norm modelled on Euro Norm of European Union was introduced in

A. 1999

B. 2000

C. 2001

D. 2002

Answer:



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2. In angiosperms, functional megaspore develops into :

A. embryog sac

B. ovule

C. endosperm

D. pollen sac

Answer:



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3. The most stable form of RNA is RNA

(messenger, transfer, ribosomal)

A. mRNA

B. tRNA

C. rRNA

D. SnRNA

Answer:



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4. A cross between F_2 hybrid and the recessive parent gives the ratio

A. 3:1

B. 1:1

C. 2:1

D. 4:1

Answer:



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5. The vitamin whose content increases following the conversion of milk into curd by lactic acid bacteria is

A. B_{12}

B. B_a

C. B_1

D. K

Answer:



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6. The term ecosystem was proposed by Odum



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7. Onion and garlic are examples of corm.



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8. Correct the statement

The condition where the anther matures earlier than the stigma is protogyny.



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9. Correct the statement

rRNA transfers the amino acids from the cytoplasm to the ribosome, during protein synthesis.



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10. Mutational variations form the basis of genetic variability in tissue culture technique.



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Section A Botany Group B

1. Write note on any three of the following:
each with two to three important points:

Phosphorous cycle.



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2. Write note on any three of the following:
each with two to three important points:

A. Artificial methods of vegetative propagation.

B.

C.

D.

Answer:



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3. Write note on any three of the following:
each with two to three important points:

Self-incompatibility



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4. Write note on any three of the following:
each with two to three important points:

Inoculation



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5. Write note on the following: each with two to three important points:

Properties of genetic code.



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6. Write note on any three of the following: each with two to three important points:



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7. Differentiate between any one pair of the following with two to three important points.

Apospory and Apogamy .



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8. Differentiate between any one pair of the following with two to three important points.

Competitive exclusion and Coexistence.



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9. Differentiate between any one pair of the following, each with three to four important points.

(c) Callus and Suspension culture



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Section A Botany Group C

1. Describe the process of double fertilization in plants?



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2. Name a few enzymes involved in DNA replication other than DNA polymerase and ligase. Name the key functions for each of them.



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3. Discuss the process of translation in detail.



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4. Give an account of use of microbes as biocontrol agents.



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Section A Zoology Group A

1. Name the bonds which join two polypeptide chains .A. and .B. in mature insulin.



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2. Name the drug which is obtained from Erythroxylon coca plant.



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3. Part of sperm involved in penetrating egg membrane is

A. autosome

B. acrosome

C. allosome

D. tail

Answer:



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4. Which one of the following is not an example of IUD?

A. Vault cap

B. Loops

C. Spirals

D. Rings

Answer:



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5. The inactive X-chromosome in the female is called as

A. Barr body

B. Barr chromosome

C. dosage body

D. None of these

Answer:



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6. NK cells release, which lyses the virus infected cell.



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7. The first larval stage of Ascaris is called larva.



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8. is the cancer of glial cells of central nervous system,



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9. A is a species which closely resembles the features of a recorded fossil.



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10. The giant honey bee, yielding maximum honey is _____



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

What are recombinant antigen vaccines?



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

What is Flavr Savr tomato?



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

Write a short note on preventive measures for STD



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

sentences)

Explain mechanism of natural selection by taking example of industrial melanism.



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

How does smoking cause emphysema?



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

What is meant by organic dairy farming?



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

Mechanical barriers and Chemical barriers



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

Bottleneck effect and Founder's effect.



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

Natural passive acquired immunity and
Artificial passive acquired immunity.



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Section A Zoology Group C

1. Write notes on any two of the following.

Adaptive radiation.



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2. Describe sex-determination in grasshoppers.



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3. Proliferative phase of menstrual cycle



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4. Write notes on the following.

Role of placenta in embryonic development.



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5. Describe the developmental process of ovarian follicle.



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6. Explain Turner's syndrome, its symptoms, diagnosis, treatment and prevention.



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7. Describe the technique of separation of DNA fragments by electrophoresis.



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