



BIOLOGY

BOOKS - SRIJAN BIOLOGY (ENGLISH)

BIOLOGY -2017

Part I

1. Give reasons for the following:-

At higher temperatures, green plants start evolving CO_2 instead of O_2 .



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2. Differentiate between the following:

Apomixis and polyembryony



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3. What is recon?



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4. Why are the spores of *Bacillus thuringiensis* used as bioinsecticide?



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5. The initiation codon in protein synthesis is

A. GUA

B. GGA

C. CCA

D. AUG

Answer:



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6. Type of interaction where an individual sacrifices its own welfare (life) for the benefit of another animal of its own species is

- A. Altruism
- B. Scavenging
- C. Protocooperation
- D. Commensalism

Answer:



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7. Wings of insects and birds are

- A. Analogous
- B. Homologous
- C. Vestigial
- D. Atavism

Answer:



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8. Give a scientific term for

The hydrostatic pressure developed inside the cell on the cell wall due to endosmosis

- A. Wall pressure
- B. Osmotic pressure
- C. Turgor pressure
- D. Diffusion pressure

Answer:



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9. Give a scientific term for an act of expelling the full term foetus from mother's uterus at the end of gestation period.



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10. Give scientific term for the entry of pollen tube into an ovule through integuments.



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11. Give a scientific term for an alternative form of the single gene which influences the same character and produces different expressions in different individuals of a species.



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12. Give a scientific term for the study of human population covering all aspects and parameters



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13. Expand the following abbreviations:

MTP



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14. Expand the following abbreviations :

(i) IVF



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15. Expand the following abbreviations :

HIV



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16. Expand the following abbreviations:

DDT



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17. Name the scientists who have contributed to the following:

Discovered fossil of Cro-Magnon man.



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18. Name the scientists who have contributed to the following:

Classified active and passive absorption of water by roots.



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19. Name the scientist who reported haemophilia.



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20. Name the scientists who have contributed to the following:

Discovered double fertilization.



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1. Differentiate between Apes and Man with respect to the following characteristics:

(i) Posture

(ii) Brow ridges

(iii) Cranial capacity



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3. Define protobionts.



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4. What is cognogeny?



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5. Explain any three molecular (genetic) evidences in favour of organic evolution.



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6. Define biogenesis.



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7. Define fossils.



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8. List any three drawbacks of Darwinism



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9. State Hardy Weinberg's principle.



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10. Differentiate between Directional natural selection and Disruptive natural selection.



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Part II Section B

1. Write the anatomical differences between dicot root and monocot root.



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2. Briefly describe the secretory phase of the menstrual cycle.



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3. Define the following:

Menarche



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4. Define the term actinomorphic



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5. Discuss the mechanism of Hatch-Slack pathway in C_4 plants.



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6. Differentiate between guttation and transpiration.



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7. Give one structural difference between chlorophyll a and chlorophyll b.



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8. Define amniocentesis.



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9. Define the following:-

polyembryony



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10. Describe K^+ transport stomatal mechanism.



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11. Draw a neat labelled diagram of L.S. of anatropous ovule.



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12. Define spermatogenesis and oogenesis.



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13. Give one significant difference between each of the following:

(i) Apocarpous ovary and Syncarpous ovary

(ii) Anemophilous and Entomophilous flowers



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1. Explain pleiotropy with reference to phenylketonuria.



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2. Explain the mechanism of transcription in a prokaryotic cell.



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3. Explain Rh-incompatibility in humans.



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4. Name any two ex-situ conservation for biodiversity?



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5. What are the applications of tissue culture?



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6. Mention the causative agent and the preventive measures for the following:

Gonorrhoea



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7. Mention the causative agent and the preventive measures for the following:

Pneumonia



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8. Name the components of lac operon and discuss their role



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9. Give the significance of transgenic animals.



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10. Give one significant difference between Electroporation and Gene Gun





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11. Give one significant difference between ECG and EEG.



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