BIOLOGY

BOOKS - SRIJAN BIOLOGY (ENGLISH)

BIOLOGY-2016

Part I

1. Give a brief answer for each of the following:

What is central dogma ?

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2. Give a brief answer for each of the following:

Define cryopreservation.

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3. Give a brief answer for the following:

What is symbiosis ?

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4. Give a brief answer for each of the following:

Explain the term perianth

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5. The curve showing the amount of light absorbed at each wavelength is:

A. Action spectrum

B. Absorption spectrum

C. Quantum yield

D. Quantum requirement

Answer:

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6. After fertilisation, the integuments of an ovule develop into :

A. Seed

B. Seed coat

C. Fruit

D. Fruit wall

Answer:

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7. Meselson and Stahl's Experiment proved:

A. Transduction

B. Transformation

C. Transformation

D. Semi-conservative DNA replication

Answer:

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8. The act of expelling the full term foetus from the uterus is termed as:

A. Gestation

B. Implantation

C. Parturition

D. Capacitation

Answer:

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9. Give scientific terms for each of the following:

The smallest unit of DNA which can mutate.

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10. Give scientific terms for each of the following:

Type of water absorption by roots where metabolic energy is required.

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11. Give biologica/technical term for the following

Statistical study of human population.

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12. Give scientific term for multiple effects of a gene on the phenotype of an organism.

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13. Expand the following abbreviations :

rDT

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14. Expand the following abbreviations :

BAC

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15. Expand the following abbreviations :

SSBP

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16. Expand IUCD.

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

Reverse transcription

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

Photorespiration

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

Principle of limiting factors

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

Photolysis of water

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Part Ii Section A

1. Mention three features of the Neanderthal Man.

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2. Differentiate between connecting link and missing link.

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3. What is adaptive radiation?

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4. Give an account of Lederberg's replica plating experiment to show the genetic basis of evolution.

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5. Assertion: Frog has a fish-like tadpole larva in its life history

Reason: Ontogeny repeats phylogeny.

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6. What is founder effect?

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7. Give one significant difference between living beings and non-living objects

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8. Mention one cause for variation in nature.

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9. What is the difference between the teeth of apes and the teeth of man?

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Part Ii Section B

1. Give a graphic representation of the C_3 cycle.

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2. Explain secondary growth in roots of dicot plants.

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3. State two advantages of vegetative propagation.

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4. Mention the role of hormones during the menstrual cycle.

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5. Give any four adaptations of anemophilous flowers.

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6. Differentiate between Soft wood and hard wood

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7. Chemiosmotic theory of ATP synthesis in chloroplast & mitochondria is based on

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8. Draw a neat labelled diagram of the vertical section of a monocot leaf.

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9. Mention any four functions of placenta.

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Part Ii Section C

1. Explain the process of sex determination in honeybees.

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2. Define complete linkage. Give an example of a cross showing complete linkage.

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3. Write a short note on multiple ovulation embryo transfer technology.

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4. Give an account of artificial chromosomes in transfer of genetic material.

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5. Mention any four methods involved in the treatment of cancer.

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6. Explain the process of RNA interference.

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7. Name the genus to which baculoviruses belong. Describe their role in the integrated pest management programmes.

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8. Explain the structure of a typical antibody molecule.

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9. Why are bio-fertilisers preferred over chemical fertilisers?

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