BIOLOGY

BOOKS - SRIJAN BIOLOGY (ENGLISH)

SAMPLE PAPER 2018

Part I

1. Give a significant point of difference between Oestrous and Menstrual cycle.

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2. Give the biological name of the organism causing typhoid.

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3. If the haploid number of chromosomes in a plant species is 20, how many chromosomes will be present in the cells of the shoot tip?

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4. Name a plant which flowers every twelve years.

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5. Name the diagnostic test for AIDS.

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6. Name the terminal stage of ageing in the life cycle of plants.

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7. Which organisms constitute the last trophic level ?

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8. What is emasculation?

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9. Length of the DNA with 23 base pairs is:

A. 78.4 Å

B. 78.2 Å

C. 78 Å

D. 74.8 Å

Answer: B

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10. Opium is obtained from :

A. Papaver somniferum

B. Cannabis sativa

C. Erythroxylum coca

D. Datura metel

Answer: a

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11. According to Abiogenesis, life originated from:

A. Non-living matter

B. Pre-existing life

C. Oxygen

D. Extra-terrestrial matter

Answer: a

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12. The largest unit in which gene flow is possible is :

A. Organism

B. Population

C. Species

D. Genes

Answer: C

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13. Give one significant contribution of the following scientist :

P. Maheshwari

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14. Give one significant contribution of the following scientist:

E. Wilson

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15. Give one significant contribution of the following scientist :

M. S. Swaminathan

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16. Give one significant contribution of each of the following scientists :

H. Boyer

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17. Define biopatent.

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18. Explain the following terms:

Parthenocarpy

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19. Give a reason for each of the following :

Pollen grains of wind pollinated flowers are produced in large quantities.

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20. Give a reason for each of the following :

Equilibrium of a forest ecosystem can be disturbed by uncontrolled hunting of big predators.

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Part Ii Section A

1. A woman with blood group O married a man with blood group AB. Show the possible blood groups of the progeny. List the alleles involved in this inheritance

2. If the mother is a carrier of colour blindness and the father is normal, show the possible genotype and phenotype of the offspring of

the next generation, with the help of a punnet square.

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3. Define life span. Give the life span of an elephant.

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4. Give two characteristic features of each of the following:

Ramapithecus

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5. Give two characteristic features of each of the following:

Cro-Magnon man

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6. What is the effect of global warming on the earth.

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7. Suggest some methods for control of noise pollution

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8. Define BOD. What is its significance in an aquatic ecosystem?

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9. Give one significant difference between the following pair: Humoral immunity and cell mediated immunity

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10. Give one significant difference between the following pair:

Benign tumour and malignant tumour

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11. Write a brief note on the causes of infertility.

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Part Ii Section B

1. Draw a labelled diagram of L.S. of human testis.

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2. Draw a labelled diagram of the mature embryo sac of angiosperms.

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3. Explain gene therapy, with reference to treatment of SCID.

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4. Study the table given below. Do not copy the table, but write the answers in the correct order. 

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5. Explain industrial melanism.

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6. Describe the tissue culture technique in plants.

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7. Define the following:

Spermiogenesis

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8. Define the following:

Reproductive health

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9. Define the following:

Amenorrhea

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10. Define the following:

Hotspots

11. Define the following:

Ramsar Sites

12. Define the following:

Red data book

13. Define the following:

Biodiversity

14. Define the following:

Eutrophication

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15. Define the following:

PAR

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Part Ii Section C

1. Describe post transcriptional processing of RNA in eukaryotes.

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2. Describe Avery, McLeod and McCarty's experiment. State its significance.

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3. Write a short note on Chipko Movement.

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4. Write a short note on Joint Forest Management.

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5. What does PCR stand for ? Describe the different steps of PCR.

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6. Give an account of the Blue-White Method of selection of recombinants

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