

SAR

Warning:- Please, do not write anything on this question paper except your Roll No.

1218 (Inter Part-II)

(Session 2015-17 & 2016-18)

Biology (Subjective)

Paper (II)

Time Allowed: 2.40 hours

Maximum Marks: 68

Section ----- I**2. Answer briefly any Eight parts from the followings:-****8 × 2 = 16**

- | | |
|---|---|
| (i) Why leaves are called excretophores? | (ii) Give two characters of smooth muscles. |
| (iii) Define the process of panting with example. | (iv) What is Vascular Cambium. Give its function. |
| (v) Define moulting (Ecdysis). Give its one importance. | (vi) Differentiate between ectotherms and endotherms. |
| (vii) Define photoperiodism. | (viii) What is corpus luteum. Give its function. |
| (ix) Compare littoral zone with limnetic zone. | (x) Differentiate between prairies and savanna. |
| (xi) What is Biodiversity. Give its importance. | (xii) Why forests are called environmental buffers. |

3. Answer briefly any Eight parts from the followings:-**8 × 2 = 16**

- | | |
|---|--|
| (i) What are chemoreceptors. | (ii) Define neurotransmitter give its two types. |
| (iii) What are para-sympathetic nervous system. | (iv) Differentiate between phenotype and genotype. |
| (v) Define Law of Independent Assortment. | (vi) What is test cross? Write its significance. |
| (vii) Define genomic library. | (viii) Write two application of polymerase chain reactions |
| (ix) Define palindromic sequence. | (x) Differentiate between Mutualism and commensalism. |
| (xi) Define niche. | (xii) Differentiate between food chain and food web. |

4. Answer briefly any Six parts from the followings:-**6 × 2 = 12**

- | | |
|--|--|
| (i) Differentiate maturation from differentiation | (ii) What are teratogens? Give an example. |
| (iii) Differentiate natural and artificial selection. | (iv) What is a phosphodiester bond? |
| (v) How many DNA polymerases are found in prokaryotes write their names? | (vi) What are the events of zygotene of prophase-I of Meiosis? |
| (vii) Write down the two functions of programmed death of a cell. | (viii) How many chromosomes are found in Ferns and in Frog? |
| (ix) What is endosymbiont hypothesis? | |

Section ----- II**Note: Attempt any three questions.****(8 × 3 = 24)**

5. (a) Discuss adaptations in plants to low and high temperature.
(b) Describe the processes in ecosystem and interaction between Biotic and Abiotic components.
6. (a) Elaborate some major functions of skeletal system.
(b) Write a note on Watson and Crick's Model of DNA.
7. (a) Write down four differences of diffused and central Nervous system.
(b) What do you know about degradation and depletion of resources?
8. (a) Discuss the process of Vernalization. (b) Describe the Genetics of colour-blindness.
9. (a) Describe the process of gastrulation in chick. (b) Describe the theory of natural selection and adaptation

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16 (Inter Part-II)

Biology (Subjective)

Time Allowed: 2.40 hours

SAR 2018
Session 2015-17 & 2016-18
Paper (II)
Maximum Marks: 68
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