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

1218 (Inter Part -- II)

(Session 2015-17 & 2016-18)

Biology (Objective)

Paper (II)

Time Allowed:- 20 minutes

PAPER CODE 4467

Maximum Marks:- 17

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Write **PAPER CODE**, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

Q.1

1. Position of a gene on the chromosome is called
(A) Place (B) Locus (C) Habitat (D) Allele
2. The enzyme Luciferase is produced by an insect Commonly known as
(A) House fly (B) Butterfly (C) Caddis fly (D) Fire fly
3. An essay on the principles of population was published by
(A) Sutton (B) Lyell (C) Malthus (D) Darwin
4. Symbiotic relationship between insects and flowering plants is the example of
(A) Parasitism (B) Predation (C) Commensalism (D) Mutualism
5. Coniferous forests located at high altitude are termed as
(A) Alpine (B) Boreal (C) Taiga (D) Arctic
6. The nuclear power station can last only for about
(A) 10 years (B) 20 years (C) 30 years (D) 40 years
7. Flame cells are part of excretory system of
(A) Hydra (B) Planaria (C) Earthworm (D) Cockroach
8. High degree of renal failure is also called
(A) Uremia (B) Leukemia (C) Anemia (D) Lithotripsy
9. The membrane that bounds vacuole is called
(A) Protoplast (B) Tonoplast (C) Chloroplast (D) Leukoplast
10. The movement in response to stimulus of touch i-e climbing vines, is called
(A) Phototropism (B) Geotropism (C) Thigmotropism (D) Hydrotropism
11. The largest part of brain is called
(A) Cerebellum (B) Medulla (C) Thalamus (D) Cerebrum
12. The light which promotes germination of fern spores
(A) Green (B) White (C) Blue (D) Red
13. Syphilis is caused by a spirochaete named as
(A) *Nisseria gonorrhoeae* (B) *Treponema pallidum* (C) *Escherechia coli* (D) *Hyphomicrobium*
14. Clear cytoplasm produces
(A) Larval epidermis (B) Muscle cell (C) Gut (D) Neural tube
15. Strand of DNA which is not transcribed is called as
(A) Template strand (B) Antisense strand (C) Coding strand (D) Lagging strand
16. Cell death due to tissue damage is called
(A) Apoptosis (B) Metastasis (C) Cyclosis (D) Necrosis
17. Post mitotic cell can exit the cell cycle during phase
(A) G-0 (B) G-1 (C) G-2 (D) S

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

1218 (Inter Part-II)

Biology (Subjective)

Time Allowed: 2.40 hours

(Session 2015-17 & 2016-18)

Paper (II)

Maximum Marks: 68

Section ----- I

2. Answer briefly any Eight parts from the followings:-

8 × 2 = 16

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|---|---|
| (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

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|---|--|
| (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

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| (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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