

Student Roll Number

P-359

Sample Roll Number

P-359

BN-XIXVII-I
BIOLOGY (PART-I)
SECTION - A

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0	2	4	7	2	5
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0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

●	0	0	0	0	0
1	1	1	1	1	1
2	●	2	2	●	2
3	3	3	3	3	3
4	4	●	4	4	4
5	5	5	5	5	●
6	6	6	6	6	6
7	7	7	●	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Time : 20 Minute

Marks : 18

Sign of Supdt:

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Q.No.1: 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 the 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.

- i. Aquatic mammals are included in the order of:
 (A) Perissodactyla (B) Chiroptera (C) Cetacea (D) Artiodactyla (A) (B) ● (D)
- ii. The final electron acceptor in non-cyclic electron pathway is:
 (A) ATP (B) NADP (C) PSI (D) PSII (A) ● (C) (D)
- iii. An example of competitive inhibitor is:
 (A) Cyanide (B) Sulphonamide (C) Lipase (D) Heavy metals (A) ● (C) (D)
- iv. The pacemaker of heart is.....node.
 (A) SA (B) NA (C) VA (D) RA (A) (B) ● (D)
- v. Organs of excretion in annelids are:
 (A) Flame cell (B) Nephridia (C) Kidney (D) None of them (A) ● (C) (D)
- vi. Antibodies which are secreted in response to allergens are:
 (A) IgM (B) IgG (C) IgA (D) IgE (A) (B) (C) ●
- vii. Kelps belong to which group of algae?
 (A) Chlorophyta (B) Rhodophyta (C) Brown algae (D) Diatoms (A) (B) ● (D)
- viii. Super kingdom is also called.
 (A) Protista (B) Monera (C) Domain (D) Phylum (A) (B) ● (D)
- ix. Sunflower is the example of:
 (A) Corymb (B) Umbel (C) Panicle (D) Capitulum (A) (B) (C) ●
- x. Virus that produce antigenic variation are:
 (A) TMV (B) HIV (C) HBV (D) Bacteriophage (A) (B) (C) (D)
- xi. HCl is secreted by:
 (A) Endocrine cells (B) Chief cells (C) Goblets cell (D) Parietal cells (A) (B) (C) ●
- xii. The only genus of bacteria lacking cell wall is:
 (A) Escherichia (B) Rhizobium (C) Pseudomonas (D) Mycoplasma (A) (B) (C) ●
- xiii. In the leaves of green plants, peroxisomes are the site of:
 (A) Respiration (B) Photorespiration (C) Photosynthesis (D) Phototropism (A) ● (C) (D)
- xiv. The smooth endoplasmic reticulum helps in:
 (A) Detoxification (B) Lipid metabolism (C) Transportation (D) All of these (A) (B) (C) ●
- xv. How many polypeptide chains in an insulin molecule?
 (A) 2 (B) 4 (C) 6 (D) 8 ● (B) (C) (D)
- xvi. Which sub group proteobacteria are pathogenic?
 (A) Alpha (B) Beta (C) Delta (D) Epsilon (A) (B) (C) ●
- xvii. In which plants chloroplasts are present only in mesophyll cells of leaf?
 (A) Non vascular (B) C₄ (C) C₃ (D) None of these (A) (B) ● (D)
- xviii. Yeast belongs to:
 (A) Ascomycota (B) Zygomycota (C) Basidiomycota (D) Deuteromycota ● (B) (C) (D)

Time allowed: 2:40 Hrs

BN-XIXVII-I
BIOLOGY (PART-I)
SECTION- B & C

Marks : 67

Note: Attempt section B & C accordingly.

SECTION -B

Marks: 40

Q.No 2. Attempt any (TEN) parts of the following. All parts carry equal marks.

- i. Write note on endoplasmic reticulum.
- ii. What are disaccharides?
- iii. What are prions?
- iv. What are carotenoids?
- v. How pH is affected on the rate of enzyme action.
- vi. What are saprobes?
- vii. What is endosymbiosis?
- viii. Describe the uses of Bryophytes.
- ix. Differentiate between protheria and metatheria.
- x. Describe tactic movements.
- xi. Write note on Ulcer.
- xii. Explain types of acquired immunity.
- xiii. What is the difference between Thrombosis and Embolism.

SECTION -C

Marks: 27

Note: Attempt any (THREE) of the following. All questions carry equal marks.

- Q.No:3(a). Discuss Lipids in detail. 5
- (b) Write a note on cytoskeleton. 4
- Q.No:4(a). Write an essay on importance of fungi. 5
- (b). Describe Krabe's cycle. 4
- Q.No:5(a). Describe the life cycle of Angiosperm. 6
- (b) Why insectivorous plants depend on insects? 3
- Q.No:6. Write short note on the following: 9
- a) Apical Meristems
 - b). Club Mosses
 - c). Autotropic bacteria