

Student Roll Number

P-303

Sample Roll Number

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BN-XIIXVII-I
BIOLOGY (PART-II)
Section-A

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.

- Which of the following animal are ectothermic?
 (A) Amphibia (B) Birds (C) Polar bear (D) All of these ● (B) (C) (D)
- Aldosteron is a
 (A) Glucocorticoid ● (B) Mineralocorticoid (C) ACTH (D) All (A) ● (C) (D)
- Okazaki's fragment are joined by.....
 (A) DNA Polymerase (B) DNA polymerase II (C) DNA polymerase III (D) None of these (A) (B) (C) ●
- The study of Birds are called.....
 (A) Herpetology (B) Ichthyology (C) Ornithology (D) Entomology (A) (B) ● (D)
- Nitrogen fixing bacteria fix.....% of nitrogen gas in atmosphere.
 (A) 40% (B) 60% (C) 50% (D) 70% (A) ● (C) (D)
- Osteoblast produce matrix mainly composed of.....
 (A) Type I collagen (B) Type II collagen (C) Type III collagen (D) None of these ● (A) (C) (D)
- ADH conserve:
 (A) Na (B) K (C) NaCl (D) Water (A) (B) (C) ●
- All papillae contain taste buds except.
 (A) Foliate (B) Filiform (C) Circumvillate (D) Fungiform (A) ● (C) (D)
- Nociceptor mean sense of:
 (A) Touch (B) Pain (C) Position (D) Temperature (A) ● (C) (D)
- Calcitonin hormone is released from:
 (A) Pancrease (B) Adrenal (C) Pitutary (D) Thyroid (A) (B) (C) ●
- AB blood group is an example of:
 (A) Over dominance (B) Codominance (C) Complete dominance (D) None of these (A) ● (C) (D)
- Code that is spliced off from mRNA is:
 (A) Exon (B) Intron (C) Promotor Box (D) Terminator Box (A) ● (C) (D)
- Down syndrom is:
 (A) Trisomy 21 (B) Trisomy 18 (C) Trisomy 21 (D) Trisomy 13 (A) (B) ● (D)
- Fresh water percentage on earth is:
 (A) 97% (B) 90% (C) 71% (D) 3% (A) (B) (C) ●
- Uric acid is formed from:
 (A) Purin (B) Pyrimidine (C) Protein (D) Lipid (A) (B) ● (D)
- Freely movable joints are named as:
 (A) Cartilagenous (B) Fibrous (C) Synovial (D) None of these (A) (B) ● (D)
- The father of genetics is:
 (A) Newton (B) Singer (C) Robert (D) Mendal (A) (B) (C) ●
- The resting membrane potential is:
 (A) -70 V (B) -70 mV (C) -60mV (D) -5mV (A) ● (C) (D)

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. What is tetanus?
- ii. Name facial and cranial bones.
- iii. Write the function of insulin.
- iv. What is Kinesis and taxis movement?
- v. Discuss about the inhibin hormone?
- vi. Write down note on taclition.
- vii. Define stroke and its symptoms.
- viii. What is nitrification?
- ix. Discuss incomplete dominance with an example.
- x. Enlist difference between hemoglobin and myoglobin.
- xi. What are difference between Semi conservative and conservative model of DNA replication?
- xii. What is mutation? At least discuss its three types.
- xiii. Briefly describe Hyperthyroidism and hypothyroidism.

SECTION -C

Marks: 27

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

- Q.No:3(a). Write the process of DNA replication.
- (b). Describe mechanism of ultra filtration.
- Q.No:4(a). What are joints and explain its various types.
- (b). Describe the structure of bone.
- Q.No:5(a). Explain lac operon Theory.
- (b). Differentiate between medulla & Pons.
- Q.No:6(a). Describe post transcriptional modification of mRNA.
- (b). Why Pancreas is known as double gland?