

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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QUE-1 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Give the Classification of Phylum Protozoa upto class with Suitable examples.
- (2) Give the Classification of Phylum Echinodermata upto class with Suitable examples.

QUE-1 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]

- (1) Classify Phylum Annelida upto Class with Suitable examples.
- (2) Classify Phylum Coelenterata upto Class with Suitable examples.

QUE-1 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]

- (1) Cholina belongs to Phylum-_____ and Class-_____.
- (2) All First Coelomatic, Bilateral Symmetrical and Triploblastic animals belongs to phylum_____.
- (3) Respiratory Pigment in Arthropoda is _____.
- (4) Dantanium belongs to Class-_____.
- (5) Give the name of largest Land Planarian.

QUE-2 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Describe: Digestive System of Leech.
- (2) Describe: Reproductive System of Leech.

QUE-2 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]

- (1) Describe: Testicular Nephridia in Leech.
- (2) Describe: Mouthpart of Cockroach.

QUE-2 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]

- (1) Give the Scientific name of Leech.
- (2) _____ is the simplest type of Canal System found in Porifera.
- (3) Which type of mouth Parts found in Honey Bee?
- (4) Peripatus is the connecting link between Phylum- _____ and _____.
- (5) According to food and feeding behavior Leech is _____.

QUE-3 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Describe: Structure and Function of Golgi-Body.
- (2) Describe: structure and Function of mammalian thyroid Gland.

QUE-3 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]

- (1) Describe: structure and Function of Ribosomes.
- (2) Describe: Structure and Function of mammalian Adrenal Gland.

QUE-3 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]

- (1) Which gland is known as Master Gland?
- (2) Give the Sub division of Cortex of Adrenal Gland.
- (3) What is the main Function of Ribosome?
- (4) Give basic Component of Golgi- Complex.
- (5) Lysosome contains _____ type of Enzyme.

QUE-4 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Social Behaviour of Honey Bee.
- (2) Brinjal Fruit & Shoot Borer and Cabbage Butterfly as pest of Crop.

QUE-4 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]

- (1) Parental Care in Ichthyophis and Alytes.
- (2) Tse Tse Fly and Mosquito as Insect affecting Human Health.

QUE-4 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]

- (1) The workers feed on Royal Jelly develops into _____.
- (2) Copulation of Royal Couple of Termite occurs in _____.
- (3) Tse Tse Fly causes _____ Diseases.
- (4) Arius protects eggs from the predatore by keeping it in its _____.
- (5) Alytes protects eggs by keeping it on its _____.

QUE-5 (A) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [07]

- (1) Energy Flow in EcoSystem.
- (2) Velavadar National park.

QUE-5 (B) ANSWER THE FOLLOWING QUESTIONS (ANY ONE OUT OF TWO) [04]

- (1) Shoolpaneshwar Wild life Sanctuary.
- (2) Haemoglobinometer.

QUE-5 (C) ANSWER THE FOLLOWING QUESTIONS (ANY THREE OUT OF FIVE) [03]

- (1) _____ National Park has India's largest population of Blackbuck.
- (2) Cheetah is now considered as _____ mammal species from India.
- (3) _____ is the State animal of Gujarat.
- (4) The Shoolpaneshwar Wild life Sanctuary previously known as _____.
- (5) What are the Systolic and Diastolic Blood Pressure of Adult Person in Normal Condition.
