

B.Sc. Semester - 6 (CBCS) Examination**March/April-2023 (OLD COURSE)****CARDIO SYS, RESP AND MUS SYS AND REPROD. IMMUNO. AND HISTO(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1(A) Answer the following question. (Any One) (07)**
1. Give detailed account of structure of heart.
 2. Describe detail on Physiology of Blood Clotting.
- Q.1(B) Answer the following questions. (Any One) (04)**
1. Describe in brief: Blood Pressure.
 2. Write a short note on ECG.
- Q.1(C) Answer the following questions. (Any Three) (03)**
1. List out factors affecting heart rate.
 2. The life span of RBCs is Days.
 3. Give the location of Tricuspid valve.
 4. Give any two factors of Blood clotting and their functions.
 5. Write names of layers constituting heart wall.
- Q.2(A) Answer the following question. (Any One) (07)**
1. Describe in detail transport of Carbon dioxide.
 2. Describe structure and functions of skeletal muscles .
- Q.2(B) Answer the following questions. (Any One) (04)**
1. Write a short note on exchange of gases.
 2. Give detailed account of any two respiratory pigments.
- Q.2(C) Answer the following questions. (Any Three) (03)**
1. What is Chloride Shift?
 2. What is hypercapnia?
 3. Define Bohr effect.
 4. Which respiratory pigment is found in sea-urchin?
 5. enzyme is responsible for the formation of Carbonic acid in RBC?
- Q.3(A) Answer the following question. (Any One) (07)**
1. Describe: Menstrual cycle.
 2. Give details account of Adrenal gland.
- Q.3(B) Answer the following questions. (Any One) (04)**
1. Write a short note on Oestrus cycle.
 2. Describe hormone of Pituitary gland.

- Q.3(C) Answer the following questions. (Any Three) (03)**
1. Which gland is known as exocrine and endocrine gland?
 2. What is hyperthyroidism?
 3. Give the functions of FSH and LH.
 4. List out the phases of Menstrual cycle.
 5. Give the example of dioestrus animals.
- Q.4(A) Answer the following question. (Any One) (07)**
1. Describe in detail: Adaptive Immunity.
 2. Describe: Types of Immunoglobulins.
- Q.4(B) Answer the following questions. (Any One) (04)**
1. Give detail account of Photo receptor.
 2. Write a short note on structure of Immunoglobulin.
- Q.4(C) Answer the following questions. (Any Three) (03)**
1. B- cells mature in
 2. Which antibody does can cross placenta?
 3. Give the name of largest antibody.
 4. Give the main characteristics of Adaptive immunity.
 5. Write the functions of cone cell in photoreceptor.
- Q.5(A) Answer the following question. (Any One) (07)**
1. Describe the Staining technique in detail.
 2. Give general account on technique for making histological slides.
- Q.5(B) Answer the following questions. (Any One) (04)**
1. Write a short note on histological structure of Ovary.
 2. Give brief view of any two stains used in histology.
- Q.5(C) Answer the following questions. (Any Three) (03)**
1. Give the name of any three fixatives.
 2. Which microtome is used in general for sectioning the animal tissue?
 3. Which stain is used for staining nucleus?
 4. Make a list of different types of stains.
 5. List out the name of different layers consisting in testis.
