

B.Sc. Semester - 6 (CBCS) Examination**May/June-2021 (OLD COURSE)****CARDIO SYS, RESP AND MUS SYS AND REPROD. IMMUNO. AND HISTO(CORE)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1(A) Answer The Following Questions. (Any One Out of Two) (07)**
1. Describe cardiac cycle and cardiac output.
 2. Describe in detail physiology of blood clotting.
- Q.1(B) Answer The Following Questions. (Any One Out of Two) (04)**
1. Write a short note on origin of heart.
 2. Write a short note on E.C.G.
- Q.1(C) Answer The Following Questions. (Any Three Out of Five) (03)**
1. Give the names of layers of heart wall.
 2. The life span of RBCs is _____ days.
 3. What is Pulse?
 4. valve is present between right atrium and right ventricle.
 5. Give the role of serotonin and thromboxane A₂ in Platelet plug formation.
- Q.2(A) Answer The Following Questions. (Any One Out of Two) (07)**
1. Describe in detail transport of carbon dioxide.
 2. Describe the microscopic anatomy of skeletal muscle.
- Q.2(B) Answer The Following Questions. (Any One Out of Two) (04)**
1. Write a short note on respiratory pigments.
 2. Write a short note on Pulmonary ventilation.
- Q.2(C) Answer The Following Questions. (Any Three Out of Five) (03)**
1. What is hypercapnia?
 2. Insufficiency of O₂ is called _____?
 3.enzyme is present in RBCs for formation of carbonic acid.
 4. Define Bohr effect.
 5. One molecule of haemoglobin carries how many molecules of O₂?
- Q.3(A) Answer The Following Questions. (Any One Out of Two) (07)**
1. Describe in detail primate female sexual cycle.
 2. Function and disorder of thyroid and parathyroid glands hormones.
- Q.3(B) Answer The Following Questions. (Any One Out of Two) (04)**
1. Write a short note on oestrus cycle.
 2. Write a note on hormones of Testis and Ovary.
- Q.3(C) Answer The Following Questions. (Any Three Out of Five) (03)**
1. Which hormones are produced from adrenal medulla?
 2. Give the examples of polyoestrus animal.
 3. Make a list of steroid hormone.
 4. Which are the hormones produced from GI tract?
 5. In which animal (group) anestrus phase is long lasting?

- Q.4(A) **Answer The Following Questions. (Any One Out of Two)** (07)
1. Describe: Innate immunity.
 2. Describe the structure and function of Photo receptors.
- Q.4(B) **Answer The Following Questions. (Any One Out of Two)** (04)
1. Write a short note on adaptive immunity.
 2. Write a short note on structure of Photo receptor.
- Q.4(C) **Answer The Following Questions. (Any Three Out of Five)** (03)
1. Give the name of largest antibody.
 2. Draw only diagram of structure of immunoglobulin.
 3. Give the names of bones present in ear.
 4. Define: Hyper Sensitivity.
 5. Write any one difference between rod cell and cone cell.
- Q.5(A) **Answer The Following Questions. (Any One Out of Two)** (07)
1. Describe technique for making permanent histological slide.
 2. Give histological structure and hormones of adrenal gland.
- Q.5(B) **Answer The Following Questions. (Any One Out of Two)** (04)
1. Write a short note Fixatives and their properties.
 2. Write a short note on various stains.
- Q.5(C) **Answer The Following Questions. (Any Three Out of Five)** (03)
1. What is block preparation?
 2. Which stain is used for staining nucleus?
 3. How many microns are set for tissue cutting in rotary microtomes?
 4. Write the parts of ovary seen in histological structure.
 5.is the melting point for paraffin wax.
