

B.Sc. Semester - 6 (CBCS) Examination**May/June-2021 (NEW COURSE)****Animal Physiology, Immunology, Sense Organs(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. What is blood coagulation? Describe the pathways of blood coagulation.
 2. Give a general account on structure of heart.
- Q.1(B) Answer The Following Questions. (Any One Out of Two) (04)**
1. Write a short note on congenital birth defects.
 2. Describe the origin of heart in brief.
- Q.1(C) Answer The Following Questions. (Any Three Out of Five) (03)**
1. What is double circulation?
 2. Give the role of ADP in the process of Platelet plug formation.
 3. Define: Hypertension
 4. What is stroke volume?
 5. List out the risk factors leading to atherosclerosis
- Q.2(A) Answer The Following Questions. (Any One Out of Two) (07)**
1. Describe: Exchange of gases with suitable laws.
 2. Describe: Carbon Dioxide transport.
- Q.2(B) Answer The Following Questions. (Any One Out of Two) (04)**
1. Write a short note on pulmonary ventilation.
 2. Describe respiratory centres in brief.
- Q.2(C) Answer The Following Questions. (Any Three Out of Five) (03)**
1. Respiratory pigment in Scorpion is.....
 2. Partial pressure of oxygen in alveolar air is.....mmHg.
 3. List out the muscles that contract during forceful exhalation.
 4. What is Carbon Monoxide poisoning?
 5. Give the Boyle's law.
- Q.3(A) Answer The Following Questions. (Any One Out of Two) (07)**
1. Give detailed account on structure and types of neurons.
 2. Describe physiology of muscle contraction.
- Q.3(B) Answer The Following Questions. (Any One Out of Two) (04)**
1. Describe hormones and disorders of Adrenal gland.
 2. Describe: Gonadal hormones.
- Q.3(C) Answer The Following Questions. (Any Three Out of Five) (03)**
1. Give any two symptoms of hyperthyroidism.
 2. List out the disorders related to Pituitary gland.
 3. Give the contractile proteins of muscle fibre.
 4. Smooth muscles are found in.....
 5. List out types of nervous system.

- Q.4(A) **Answer The Following Questions. (Any One Out of Two)** (07)
1. Describe structure and function of lymph nodes with diagram.
 2. Give the structure of immuno globin.
- Q.4(B) **Answer The Following Questions. (Any One Out of Two)** (04)
1. Describe secondary line of defence.
 2. Describe gustatory receptor in brief.
- Q.4(C) **Answer The Following Questions. (Any Three Out of Five)** (03)
1. Write function of cone cell in photoreceptor.
 2. Define: Antigens.
 3. Give the function of otoliths.
 4. T-cells mature in..... gland.
 5. What are touch corpuscles?
- Q.5(A) **Answer The Following Questions. (Any One Out of Two)** (07)
1. Describe single and double staining method for permanent slides.
 2. Write in detail process of making permanent histological slides.
- Q.5(B) **Answer The Following Questions. (Any One Out of Two)** (04)
1. Give histological structure and function of bone and cartilage.
 2. Write a short note on properties of fixatives.
- Q.5(C) **Answer The Following Questions. (Any Three Out of Five)** (03)
1. Give the uses of hematoxylin.
 2. is used as a clearing agent for histological slides.
 3. Write the function of olfactory epithelium.
 4. Give the name of a mounting agent.
 5. The epidermis is the upper most layer of the skin. Going from deep to superficial, it consist of..... layers.
