

B.Sc. Semester - 6 (CBCS) Examination**April/May-2022 (NEW COURSE)****Animal Physiology, Immunology, Sense Organs (Core (New))****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 questions. (Any one out of two) (07)
1. Give a general account on Blood pressure and Pulse rate.
 2. Give a detailed account on regulation of heart rate.
- Q.1(B) Answer the following questions. (Any one out of two) (04)
1. Write a short note on ECG.
 2. Describe in brief: Congenital birth defects.
- Q.1(C) Answer the following questions. (Any three out of five) (03)
1. What is AV block?
 2. What is vascular spasm?
 3. Define: tachycardia.
 4. Ventricular systole occurs for.....seconds.
 5. Heart is.....in origin.
- Q.2(A) Answer the following questions. (Any one out of two) (07)
1. Describe in detail: Exchange of gases.
 2. Describe in detail: Carbon dioxide transport.
- Q.2(B) Answer the following questions. (Any one out of two) (04)
1. Write a short note on regulation of respiratory centres.
 2. Give the structure of respiratory membrane with suitable diagram.
- Q.2(C) Answer the following questions. (Any three out of five) (03)
1. Give the normal effect of pneumotaxic centre.
 2. Partial pressure of oxygen in tissue cells is.....mmHg.
 3. What is Chloride Shift?
 4. Molpadin is found in.....
 5. Give the Dalton'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 mechanism of hormone action for steroid and non steroid hormones.
- Q.3(B) Answer the following questions. (Any one out of two) (04)
1. Write short note on types of nervous system.
 2. Describe hormones of ovary and testes.

- Q.3(C) Answer the following questions. (Any three out of five) (03)
1. Give the location of smooth muscles.
 2. Amount of calcium in blood is regulated by which hormones?
 3. Give the name of contractile proteins of muscle fiber.
 4. Myxedema and cretinism are the disorders associated with.....hormone.
 5. Define: synapse.
- Q.4(A) Answer the following questions. (Any one out of two) (07)
1. Describe structure and types of antibody in detail.
 2. Give a detailed account on gustato receptors and gustatory pathway.
- Q.4(B) Answer the following questions. (Any one out of two) (04)
1. Describe structure and function of lymph node.
 2. Write a short note on: Second line defence mechanism.
- Q.4(C) Answer the following questions. (Any three out of five) (03)
1. Which antibody is found in mother's milk?
 2. Define: photoreceptors.
 3. Give the function of taste buds.
 4. Which is the heaviest antibody?
 5. Give the types of photo receptor cells.
- Q.5(A) Answer the following questions. (Any one out of two) (07)
1. Describe the double staining technique in detail.
 2. Give general account on technique for making histological slides.
- Q.5(B) Answer the following questions. (Any one out of two) (04)
1. Give histological structure and function of cartilage tissue in brief.
 2. Write a short note on properties of fixatives and formalin as a fixative.
- Q.5 (C) Answer the following questions. (Any three out of five) (03)
1. Give the uses of Hematoxylin.
 2. Haversian canal is found in.....histological structure.
 3. Write the function of olfactory epithelium.
 4. Make a list of different types of microtomes.
 5. Give the name of the layers of epidermis of skin.
