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Roll No. ....

**18C52**

**B. Tech. EXAMINATION, 2020**

(Third Semester)

(C Scheme) (Main & Re-appear)

(BME)

BME203C

Human Anatomy and Physiology

*Time : 2½ Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Four* questions in all. All questions carry equal marks. Draw neat diagrams wherever applicable.

(5)M-18C52

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1. (a) Define the term Tissue. List the different types of tissue found in the human body.  
Draw the diagram of Nerve Cell.  
(b) What are the functions of Nervous tissue ?
2. (a) Illustrate the composition of blood and write the properties of RBC.  
(b) Illustrate the Functions of Blood.
3. (a) Make a list of the arteries and veins carrying blood to the human heart.  
(b) How is blood pressure regulated ?
4. (a) List the differences between arteries and veins.  
(b) Write about peripheral Circulation.
5. (a) Make a list of organs of Respiratory System.  
(b) Write the functions of Respiratory System.

6. (a) What is total Lung capacity ? Explain Tidal volume.
- (b) With the help of diagram explain the transport of gases between lungs and tissues.
7. (a) Draw a well labelled diagram of the Digestive System.
- (b) List the functions of the digestive system.
8. (a) Discuss the role of liver in process of digestion.
- (b) How are nutrients absorbed from food during the process of digestion ?
9. (a) Name the important parts involved in creating a pressure gradient between lungs and the atmosphere during normal respiration.
- (b) Differentiate between Tricuspid and bicuspid valve.

- (c) Write down the common features of the connective tissue.
- (d) On the basis of structure and function, differentiate between bones and cartilages.
- (e) Write the role of tongue and teeth in process of digestion.