## B. Tech. Sem – III (Biomedical Engg.) (2014 COURSE) (CBCS) : SUMMER - 2019

## SUBJECT: HUMAN BIOLOGY

02.30 PM TO 05.30 PM Time: Day: Wednesday S-2019-2587 Max. Marks: 60 Date: 15/05/2019 N.B: All questions are **COMPULSORY**. 1) Figures to the right indicate FULL marks. 2) Draw neat labeled diagrams WHEREVER necessary. 3) What is tissue? What are the types of tissues? Draw the diagram of each and (10) **Q.1** explain. OR (10)Define following w.r.t. cell and its function: Nucleus Rough endoplasmic reticulum i) ii) Mitochondria Explain with diagram: (10)Q.2 Male Reproductive System. i) Female Reproductive System. ii) OR Explain the anatomy of respiratory system. (10)Q.3 Give detailed anatomy of: (10)Nose i) ii) Eye OR Describe anatomy of spinal cord with neat diagram. (10)Discuss the factors responsible for blood clotting. (10)**Q.4** i) ii) Write a note on blood transfusion. OR What is ECG? Draw the diagram of ECG waveform and explain amplitudes (10)and time durations of each. Also explain each wave in the ECG signal. How does kidney help in maintaining electrolyte balance? (10)Q.5 OR Explain the functions and composition of pancreatic juice. Name the various (10)gastric juices and its importance. Explain the physiology of eye and importance of sight. (10)0.6 OR Describe various types of papillae of tongue. (10)i) Justify: Skin is called largest organ of body. ii)