

- 3 (a) Explain the physiology of respiratory system with the help of diagram. $10 \times 2 = 20$
- (b) Discuss the working and principle of spirometer and respirator.
- (c) Discuss on Neuronal Communication and Neuronal firing measurements.
- 4 (a) Explain the following : $10 \times 2 = 20$
- (i) Electroretinogram
- (ii) Electrooculogram
- (iii) Ophthalmoscope
- Discuss a method for eye pressure measurement.
- (b) Explain the terms echocardiography and echo-encephalography. Explain its need and method of use.
- (c) What are x-rays? How they are generated? Discuss its properties and how they can be used for medical aid.
- 5 (a) Draw and explain the block diagram of Bio-telemetry system. $10 \times 2 = 20$
- (b) Discuss on Hearing Aides and Dia-thermy.
- (c) Write notes on ECG measurement during exercise.

