

- c) Defibrillator d) None of these
- Q.6 Spirometer is used to measure _____.
 a) Blood pressure b) Respiratory volume
 c) Blood glucose d) Body temperature
- Q.7 Brain wave Delta is associated with _____.
 a) EEG b) ECG
 c) EMG d) ERG
- Q.8 Which equipment is capable of receiving the transmitted signal and demodulate it to recover information.
 a) Receiver b) Transmitter
 c) Modulator d) Demodulator
- Q.9 ICU stands for _____.
 a) Inter case unit b) Intensive Care Unit
 c) Intera case Unit d) None of these
- Q.10 For an engineer the Respiratory system can be viewed as _____.
 a) Hydraulic System b) Pneumatic System
 c) Both A & B d) None of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 An in vivo measurement is performed outside the body. (T/F)
- Q.12 The preamplifier is a AC coupled differential amplifier with high CMMR. (T/F)

- Q.13 Blood glucose of a healthy person is from ____ to ____.
- Q.14 Define Depolarization.
- Q.15 Korkoff sound is associated with blood pressure measurement. (T/F)
- Q.16 Signal to noise ratio should be as low as possible. (T/F)
- Q.17 Expand EMG.
- Q.18 Mention name of any two types of electrodes.
- Q.19 Cardiovascular system is the major hydraulic system in the body. (T/F)
- Q.20 Signal conditioning is sometimes called as signal processing. (T/F)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Discuss in vitro and in-vivo measurement with example.
- Q.22 Explain Bio-chemical system of human being.
- Q.23 Discuss electrode-tissue interface.
- Q.24 Describe block diagram of EEG machine.
- Q.25 Explain Bio-Telemetry systems with its block diagram.
- Q.26 Write a short note on ventilators.
- Q.27 Discuss applications of an embedded system in bio-Medical field.