

BME ASSIGNMENT QUESTIONS FOR UNIT-3

1. Draw the equivalent engineering type of piping diagram of *cardiovascular circulation system*.
2. Explain the *electrocardiogram* in detail.
3. Draw the engineering analog of *physiological system* as pump model and explain its operation.
4. Explain about ECG lead configurations.
5. Draw the *Einthoven triangle* and explain.
- 6 a) What are the characteristics of *blood flow*? Explain.
b) What are the different types of ECG recorders? Explain briefly.
- 7 a) What are the different *lung volumes* and *capacities*? Explain each.
b) What is the use of *pneumotachometer*? Explain.
- 8 a) List the different *respiratory therapy* equipment and explain.
b) Draw a typical *spirogram* and explain.
- 9 a) What are the techniques used in measuring the *closing volume*? Explain.
b) What is the use of *inhalators*? Explain.
c) What is the use of *nebulizer*? Explain.
- 10 a) Explain about *ventilators* and *respirators*.
b) Explain about *intra-alveolar* and *intra-thoracic* pressure measurements.