

# ANDHRA PRADESH PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2017

## DIPLOMA IN PERFUSION TECHNICIAN COURSE

### PAPER I

Anatomy, Physiology & Basics of Diagnostic Techniques

Time: 3hrs.

Total Marks:80

Answer any TEN Questions

All Questions carry equal marks

**Write the entire answer to a question at one place only but not in different stages**

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1. Draw a diagram of the anatomy of the heart and label the parts. Describe briefly the anatomy of the heart. (4+4)
2. Draw a diagram of the normal left and right coronary artery systems and their branches and label. Describe briefly the anatomy of the normal coronary arteries. (4+4)
3. What are the parameters monitored in the CTVS ICU? Write a brief note on monitoring using pulse oximeter, temperature probe and ECG monitor?
4. Write the fat soluble vitamins. Write the sources, daily requirement and deficiency manifestations of Vitamin C
5. Draw a diagram of the respiratory system and label the parts. Describe briefly the physiology of gas exchange in the alveoli. (4+4)
6. Write short notes on a) Hemodynamic monitoring b) Hemostatic monitoring (4+4)
7. Mention various types of oxygenators. Write briefly about one of them (4+4)
8. Mention the types of blood pumps. What are the features of an ideal blood pump? Write briefly about centrifugal pump. (2+2+4)

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