

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES, WARANGAL,
TELANGANA-506 002**

**MBBS FIRST YEAR DEGREE EXAMINATIONS: MARCH /APRIL, 2021
PHYSIOLOGY PAPER -I**

Time: 3 Hours

Max Marks: 100

Note: Answer all questions. Give Diagrammatic representation wherever necessary.

Write an essay on the following: (2X15=30)

1. A 64-year-old male patient has fatigue, hypotension, thready pulse, and breathlessness. Investigations show low Cardiac output.
 - a) What is Normal Cardiac output and define cardiac output?
 - b) Factors influencing Cardiac output.
 - c) Methods of estimation of Cardiac output.
2. A 40-year-old female is having difficulty in taking breath. Describe the chemical & neural regulation of respiration.

Write short essay on the following: (8X5=40)

3. Erythropoiesis
 4. Coronary circulation – Factors determining coronary circulation
 5. Enterohepatic circulation.
 6. Composition and function of pancreatic juice.
 7. Transport of Oxygen in blood.
 8. Describe the importance of Empathy in patient encounter.
 9. Draw and explain Cystometrogram.
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10. Movements of small intestine.

Write briefly on the following: (10X3=30)

11. Primary active transport.

12. Role of eosinophils in allergic reactions.

13. Erythroblastosis foetalis.

14. Write a note on innervation and functions of sweat gland.

15. Glucose absorption in the renal tubule.

16. Surfactant – Physiological significance.

17. SCUBA apparatus.

18. ADH action on the renal tubule.

19. Vomiting reflex.

20. Extrinsic mechanism of blood coagulation.

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