

**PAPER CODE: MB2019105**

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**

**WARANGAL, TELANGANA STATE - 506006**

**First Year M.B.B.S. (NEW REGULATION) DEGREE EXAMINATION:  
MARCH/APRIL 2021**

**PHYSIOLOGY PAPER-I**

**Time: 3 Hours**

**Max Marks: 100**

**Note: Answer all questions.**

**Give Diagrammatic representation wherever necessary.**

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**Write essay on the following:**

**2X15=30**

1. A 64 year male patient has fatigue, hypotension, thready pulse and breathlessness. Investigations show low Cardiac output. (3+7+5)

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 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.

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8. Describe the importance of Empathy in patient encounter
9. Draw and explain Cystometrogram
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 renal tubule.
16. Surfactant - Physiological significance
17. SCUBA apparatus.
18. ADH action on renal tubule.
19. Vomiting reflex
20. Extrinsic mechanism of blood coagulation

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