

**QP. CODE: MB2019105****KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES****WARANGAL, TELANGANA STATE-506 002****MBBS FIRST YEAR SUPPLEMENTARY EXAMINATIONS: JUNE/JULY, 2022****PHYSIOLOGY (NEW REGULATION)****PAPER I****Time: 3 Hours****Max Marks: 100****Note: Answer all questions.****Give Diagrammatic representation whenever necessary**

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**Write a Long Answer Questions on the following****2x15=30**

1. 54-year-old male business executive was suffering from headache. On examination, his blood pressure was 190/100 mmHg with normal ECG and normal Blood Gases.

- a) What is the diagnosis?
- b) Discuss in detail about short term regulation of Blood pressure.
- c) Discuss in detail about long term regulation of Blood pressure.
- d) Add a note on Korotkoff sounds. (2+5+5+3)

2. A patient attending to outpatient department complains of passing Yellow colored urine, loss of appetite, nausea and vomiting. On examination , yellowish discoloration of Sclera was seen. Lab reports showed elevated Serum Bilirubin.

- a) What is the diagnosis?
- b) What are the types and clinical features of the above disease?

c) Liver function tests

d) Add a note on Enterohepatic circulation

(2+6+4+3)

**Write a Short Answer Questions on the following:**

**8x5=40**

3. Electrical and mechanical events occurring in the Heart during ventricular systole.
4. Pacemaker potential.
5. Oxygen transport.
6. Ventilation Perfusion ratio.
7. Differences between 2 types of Nephrons.
8. Renal clearance tests.
9. Molecular basis of ABO Blood groups.
10. Structure and functions of Haemoglobin.

**Write Very Short Answer on the following:**

**10X3=30**

11. Pontine Respiratory centers.
12. Functional Residual Capacity (FRC).
13. SCUBA.
14. Functions of Platelets.
15. Define MCV, MCH and MCHC.
16. Anticoagulant types.
17. Artificial Kidney.
18. Hormones secreted from kidney.
19. Negative feedback mechanism.
20. GIBBS-DONNAN effect.

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