

Q.P. CODE:M102A020

# Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008

### MBBS DEGREE EXAMINATION - MARCH, 2024

## FIRST M.B.B.S. EXAMINATION

PHYSIOLOGY - PAPER-I

(Theory Questions)

Time: 2 Hour 40 Minutes Max Marks: 80

Note: Answer all questions.

Draw diagrammatic representation wherever necessary

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#### SECTION-II (THEORY QUESTIONS - 80 MARKS)

#### STRUCTURED ESSAY QUESTIONS:

 $2 \times 15 = 30$ 

- 1. a) What are different leads in the ECG? Discuss PR interval in detail.
  - b) Describe the normal spread of electrical activity in the heart.
  - c) List the chemical and neural factors that regulate coronary circulation.
  - d) Describe the circulatory changes that occur during exercise.
- a) Discuss in detail about the Pulmonary function tests.
- b) Describe the pulmonary function tests in obstructive and restrictive lung disease.
  - c) What factors affect the compliance of the lungs?
  - d) What factors affect the Airway resistance?

#### SHORT ANSWER QUESTIONS:

10x5=50





- Describe and give examples of secondary active transport.
- Describe the structure and function of platelets.
- Explain the functions of Memory B Cells and T Cells.
- Describe the functions of neutrophils.
- Describe the composition and functions of Gastric Juice.
- 8. A 40-year-old male came with complaints of upper abdominal pain since one week. Ultrasound examination reveals gallstones in the gallbladder. What is the cause for gallstones formation? Discuss.
- List the factors affecting cardiac output.
- Explain the factors affecting the glomerular filtration rate.
- Discuss tubular reabsorption and secretion of glucose.
- Describe the countercurrent mechanism in the kidney.

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