

Madhya Pradesh Medical Science University, Jabalpur**MBBS First Professional Examination Dec-2022****Paper Code-22BX0000100551****Subject- Physiology (Old Scheme)****Paper-I**

Time: 3:00 Hours

Maximum Marks :50

Instructions:

- a) All questions are compulsory
- b) Draw diagrams wherever necessary
- c) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper.

Q.1 Long Answer Questions**2x5=10**

- a. State the functions of platelets.
- b. Describe neural regulation of respiration.

Q.2 Short Answer Questions**10x3=30**

- a. T helper cells
- b. Functions of different heart valves
- c. Carbon di-oxide transport from tissues to lungs
- d. Role of baroreceptors in controlling arterial blood pressure.
- e. Feedback mechanisms with examples
- f. Define cardiac output, cardiac index and ejection fraction. Give their normal values.
- g. Composition and functions of pancreatic juice
- h. Bohr and Haldane effects
- i. Gastrin
- j. Cystometrogram

Q.3 Very Short Answer Questions**10x1=10**

- a. Functions of macula densa cells
- b. FVC
- c. Resting membrane potential
- d. Cardiac action potential
- e. Surfactant
- f. Define circulatory shock.
- g. Define endocytosis.
- h. Starlings' forces of filtration
- i. Define end diastolic, end systolic and stroke volume. Give their normal value.
- j. JVP

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