

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2017
Summer
Subject- Physiology
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 serial order of question paper.
- d) Do not write anything on the blank portion of question paper, if written anything such type of act will be considered as an attempt to resort to unfair means

Q1. Long Answer questions

- a. Define hemopoiesis. Describe hemopoiesis. Add a note on factors affecting erythropoiesis $2 \times 5 = 10$
- b. Describe in brief the pressure and volume changes in the left ventricle during a cardiac cycle

Q2. Short Answer Questions

- a. ~~Fibrinolytic system $10 \times 3 = 30$~~

- b. Neural regulation of ventilation
- c. Herring-Breuer reflex
- d. Transport of CO₂ in blood
- e. Factors affecting cardiac output
- f. Factors affecting GFR
- g. Countercurrent multiplier function of loop of Henle
- h. Differences between hemolytic and obstructive jaundice
- i. Regulation of pancreatic secretion
- j. Pace maker potential

Q3. Very Short Answer Questions

- a. Automatic bladder 10 x 1 = 10
- b. Renal splay
- c. Characteristic of active transport
- d. Characteristics of action potential
- e. Starling filtration principle
- f. QRS complex
- g. Functions of bile salts
- h. Chemical gastrectomy
- i. MCHC
- j. IgG
