

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination 2015
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**

Long Answer questions

- Q1. a. Enumerate determinants of blood pressure.
Discuss the role of baroreceptors in regulation of arterial blood pressure
- b. Describe the factors affecting glomerular filtration
 $2 \times 5 = 10$

Short Answer Questions

- Q2. a. CO₂ carriage in blood
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- b) Extrinsic pathway of blood coagulation
 - C) Infant respiratory distress syndrome
 - d) Secretion of bile
 - e) Active transport across cell membrane
 - f) Deglutition
 - g) A normal ECG waveform in standard limb lead II
 - h) Gastrin
 - i) ABO blood group
 - j) Pre-Botzinger complex
- 10 x 3 = 30

Very Short Answer Questions

- Q3. a. Define physiological dead space
- b) Define peristalsis
 - C) Define Ejection fraction
 - d) Define GFR
 - e) Define antigen
 - f) Define hypercapnia
 - g) Define a macrocyte
 - h) Define diastasis
 - i) Draw and label jugular venous pulse
 - j) Draw and label normal spirogram
- 10 x 1 = 10
