

**Madhya Pradesh Medical Science University,
Jabalpur
MBBS First Professional Examination Aug-Sep
2016
Subject- Physiology
Paper-I**

Time: 3:00 Hours

Maximum Marks: 50

- 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 2x5=10

a. A 25-year-old male has been brought to the hospital emergency room with history of roadside accident. He is semiconscious sweating profusely. His blood pressure is 90/60 mmHg. Pulse is fast and weak. Answer the following questions

- i. Name the clinical condition (0.5)
- ii. Explain the physiological basis of above findings

~~(2.5)~~

iii. Describe the rationale of management (2.0)

b. Describe the tubuloglomerular feedback

Q2. Short Answer Questions 10 x 3 = 30

a. Functional residual capacity

b. Hemophilia

c. Pulmonary stretch receptors

d. Standard limb lead in ECG

e. Saltatory conduction

f. Mixing movements in GIT

g. Functions of polymorphonuclear neutrophils

h. Sino aortic reflex

i. Erythroblastosis fetalis

j. Periodic breathing

Q3. Very Short Answer Questions 10 x 1 = 10

a. What is sinus arrhythmia

b. What is TmG

c. Define stroke volume

d. Define PAO₂

e. Law of intestine

f. Define auto antibody

g. Define renal threshold

h. Name 4 enzymes in pancreatic secretions

i. Define VO₂ max

j. Define Haldane effect

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