



NF-1612030701010300

Seat No. _____

**Master of Pharmacy Management (MPM) (Sem. I)
(CBCS) Examination**

January – 2017

**Human Anatomy & Physiology - I
(New Syllabus)**

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer any three from each section except question 1 and 5 are compulsory.
(2) Figure to the right indicates full marks.
(3) Draw neat and clean diagram when required.

SECTION - I

- 1 Answer the following questions : (any seven) 2×7=14**
- (1) Define : Homeostasis.
 - (2) Differentiate between: Active transport and Passive transport.
 - (3) Define the following terms:
 - (a) Epidemiology
 - (b) Pharmacology.
 - (4) Differentiate between: Skeletal muscle and Cardiac muscle.
 - (5) Write about Hodgkin's disease.
 - (6) Give functions of blood.
 - (7) Give composition and function of plasma.
 - (8) Give the composition of lipid bilayer of cell membrane.
 - (9) Enumerate different systems of human body.
 - (10) Define : Humoral immunity
- 2 Answer the following questions : 13**
- (a) Explain in 'brief about positive feedback system. 7
 - (b) Write a detailed note on epithelial and connective tissue. 6

- 3 Answer the following questions : 13
- (a) Write a short note on cell cycle and its significance. 7
 - (b) Define: Cell. Describe the structure of cell membrane with appropriate diagram. Give functions of cell membrane. 6
- 4 Answer the following questions : 13
- (a) Classify bones. Explain in brief about histology of bone. 7
 - (b) Write a short note on synovial joints. 6

SECTION - II

- 5 Answer any **two** questions from the following : 2×7=14
- (a) Describe in brief - Neuromuscular junction.
 - (b) Write a short note on spleen.
 - (c) Explain the following disorders :
 - (i) Rheumatoid arthritis
 - (ii) Migraine
- 6 Answer the following questions : 13
- (a) Explain the physiology of muscle contraction with suitable diagram. 7
 - (b) Write a short note on Liver. 6
- 7 Answer the following questions : 13
- (a) Write a detailed note on blood group system. 7
 - (b) Draw neat and labeled diagram of digestive system. 6
- 8 Answer the following questions : 13
- (a) Describe in detail about circulation of blood in heart with suitable diagram. 7
 - (b) Write a short note on immune reactions. 6