



Faculty: Medicine and Allied Health Sciences	Year/Part: I/I
Program: Pharmacy	Exam Year: 2080, Mangshir (Model Question)
Level: Bachelor	Subject: Anatomy and Physiology I (BP101)

GROUP A (Multiple Choice Questions)

[10x1=10]

- i. Answers should be given by filling the Multiple Choice Questions' Answer Sheet.
- ii. Rough can be done in the main answer sheet
- iii. Maximum time of 20 minutes within the total time is given for this group.

1. What term describes the position of a structure that is closer to the point of attachment to the body or the beginning of a structure?
 - a. Proximal
 - b. Distal
 - c. Superior
 - d. Inferior
2. The extracellular matrix of connective tissue is primarily composed of:
 - a. Collagen fibers and ground substance
 - b. Nervous tissue and blood vessels
 - c. Epithelial cells and fibers
 - d. Muscle fibers and calcium deposits
3. At which vertebral level is the most common site for performing a lumbar puncture?
 - a. L1-L2
 - b. L3-L4
 - c. T12-L1
 - d. L5-S1
4. A patient experiences pain and discomfort in the joint located between the first metacarpal bone and the trapezium bone. This joint enables the thumb to oppose the other fingers. Which type of joint is this?
 - a. Ball-and-socket joint
 - b. Hinge joint
 - c. Saddle joint
 - d. Gliding joint
5. A patient with a spinal cord injury experiences difficulty in limb movement. The damage likely involves:
 - a. Neurons
 - b. Astrocytes
 - c. Oligodendrocytes
 - d. Microglia
6. Plasma proteins in the blood perform various functions. Which of the following is not a major function of plasma proteins:
 - a. Acid base balance
 - b. Reservoir of proteins
 - c. Excretion of waste products
 - d. Defense of body
7. Cerebrospinal fluid (CSF) circulates throughout the brain. The normal amount of CSF in man is about:
 - a. 50 ml
 - b. 100 ml
 - c. 150 ml
 - d. 200 ml
8. Normally first and second heart sounds are heard in cardiac cycle. First heart sound occurs during the period of which phase of cardiac cycle.
 - a. Rapid ejection phase
 - b. Isovolumetric contraction
 - c. Isovolumetric relaxation
 - d. Rapid filling phase
9. Na⁺-Glucose transport is the example of which type of transport system.
 - a. Simple diffusion
 - b. Facilitated diffusion
 - c. Primary active transport
 - d. Secondary active transport
10. In skeletal muscle contraction, the length of this part is reduced while the muscle contracts:
 - a. H zone
 - b. I band
 - c. A band
 - d. Light band

Marks Secured: _____

Code No.

In Words: _____

Examiner's Sign: _____ Date: _____

Scrutinizer's Marks: _____

In Words: _____

Scrutinizer's Sign: _____ Date: _____

Corrected Fill

(A) ● (C) (D)

Incorrect Fill

⊗ (B) ● ⊙

Multiple Choice Questions' Answer Sheet

1. (A) (B) (C) (D)	6. (A) (B) (C) (D)
2. (A) (B) (C) (D)	7. (A) (B) (C) (D)
3. (A) (B) (C) (D)	8. (A) (B) (C) (D)
4. (A) (B) (C) (D)	9. (A) (B) (C) (D)
5. (A) (B) (C) (D)	10. (A) (B) (C) (D)

MANMOHAN TECHNICAL UNIVERSITY
Office of the Controller of Examinations

Budhiganga-4, Morang, Koshi Province, Nepal
Exam Year: 2080, Mangshir

Faculty: Medicine and Allied Health Sciences	Level: Bachelor	Year/Part: I/I
Program: Pharmacy	Time: 3 Hours	F.M.: 50
Subject: Anatomy and Physiology I (BP101)		P.M.: 25

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

GROUP A (Multiple Choice Questions and Answer Sheet in separate paper) [10x1=10]

GROUP B (Problem Based Question) [1x10=10]

1. Mr. Sandip Gautam came to Medicine OPD with symptoms of excessive salivation, bradycardia, and constriction of pupils for last two weeks.
 - a. Which autonomic system is overactive in this case? Mention the cranial nerves involved in salivation, bradycardia and constriction of pupil. [1+2]
 - b. Name the ganglia involved in salivation, constriction of pupil and lacrimation. [3]
 - c. Write four differences between the Sympathetic and Parasympathetic Nervous System. [4]

GROUP C (Long Answer Questions - Attempt Any Four) [4x5=20]

2. Draw a well labelled diagram of interior of right atrium. [5]
3. Write a note about gross features of spinal cord mentioning about its extensions in adult and in children, its coverings, its dilations and number of spinal nerves. [1+1+1+2]
4. Define epithelium. Briefly discuss about its types along with examples. [1+2+2]
5. What is Neuromuscular junction. Describe the process of excitation-contraction coupling. [1+4]
6. Define Cardiac cycle. Explain the phases of ventricular systole. [1+4 =5]

GROUP D (Short Answer Questions - Attempt Any Five) [5x2=10]

7. Define circumduction and name the joint where this movement takes place.
8. Name the paired and unpaired facial bones.
9. Define anatomical position.
10. Describe the circulation of CSF.
11. Explain the process of Platelets plug formation.
12. Mention the distribution of body fluid compartments along with their percentages.