



All India Institute of Medical Sciences, Kalyani
B.Sc. (Hons) Nursing First Year Supplementary Examination, October 2023
Time: 3 Hrs. ANATOMY & PHYSIOLOGY Marks: 75

INSTRUCTIONS:

- Answer Anatomy & Physiology Section in separate answer booklets.
- Draw diagram wherever necessary.

ANATOMY (37 MARKS)

SECTION A

Answer any ONE of the following

(3+2+2=7)

1. Describe the uterus under following headings:
 - a. Parts and relation
 - b. Ligaments
 - c. Blood supply and applied anatomy

OR

2. Describe the thyroid gland under following headings:
 - a. Position and relation
 - b. Structure
 - c. Blood supply and applied anatomy

SECTION B

Write short notes on any FOUR:

(4X5=20)

3. Classification of joints with example
4. Enumerate the components of circulatory system. Describe the blood supply of heart. (2+3)
5. Bronchopulmonary segments
6. Enumerate the components of urinary system. Describe the anterior relation of left kidney. (2+3)
7. Structure of skin
8. Structure of Spinal cord



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SECTION C (ANATOMY)

- Section C (Anatomy & Physiology) should be answered in first 20 minutes of the Exam duration and handed over to the invigilators.
- Put one tick ✓ mark to only one answer that you consider correct for each question.
- Mark your tick ✓ in pen.

Multiple Choice Questions (MCQs):

(10X1=10)

1. Which of the following is an example of flat bone?
 - a. Vertebra
 - b. Parietal
 - c. Scaphoid
 - d. Clavicle
2. Which of the following is an example of secondary cartilaginous joint?
 - a. Shoulder joint
 - b. Wrist joint
 - c. Symphysis pubis
 - d. Acromioclavicular joint
3. Following an injury to right arm, a person is not able to extend his right wrist joint. Which nerve was most likely to be injured?
 - a. Ulnar
 - b. Axillary
 - c. Median
 - d. Radial
4. While visiting a patient in the hospital ward, the consultant doctor asked the attending nurse to check the Blood Pressure of the patient. For this procedure, the nurse should put the stethoscope over which of the following artery?
 - a. Ulnar
 - b. Brachial
 - c. Radial
 - d. Axillary
5. Which of the following cell helps in myelination of peripheral nerves?
 - a. Astrocyte
 - b. Oligodendrocyte
 - c. Schwann cell
 - d. Ependymal cell
6. Which of the following muscle is usually utilized to give intramuscular injection in upper limb?
 - a. Biceps brachii
 - b. Deltoid
 - c. Triceps
 - d. Trapezius

7. Which of the following vein is commonly utilized to draw blood in adults for blood tests?
- Median cubital vein
 - Great Saphenous vein
 - Axillary vein
 - Cephalic vein
8. Mammary gland is modified version of which type of gland?
- Sebaceous Gland
 - Sweat Gland
 - Salivary Gland
 - Endocrine gland
9. The greater omentum is a peritoneal fold embedded with fat protecting all the viscera in abdomen. It is hanging from which of the following organ?
- Stomach
 - Liver
 - Kidney
 - Pancreas
10. A patient presented with nausea, loss of appetite, weakness and yellowish discoloration of sclera and skin. This condition usually results due to dysfunction of which of the following organ?
- Kidney
 - Pancreas
 - Stomach
 - Liver
-



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ANATOMY & PHYSIOLOGY

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PHYSIOLOGY (38 MARKS)

SECTION-A

Answer any ONE of the following:

[1X8=8]

1. A woman aged 35 years complaints that she has developed severe intolerance to cold. On examination she is obese, has hoarseness of voice, a coarse dry skin with non-pitting edema. (3+3+2)
 - a. What endocrine disorder is she likely to suffer from?
 - b. Name the investigations to establish the diagnosis.
 - c. How will you manage the condition?
2. With the help of a neat diagram describe the neural regulation of respiration. Write short note on sleep apnea. (3+5)

SECTION-B

Write short notes on any FOUR:

[4X5=20]

3. Sodium potassium pump mentioning its functions.
 4. Long-term regulation of blood pressure.
 5. Erythroblastosis foetalis
 6. Cephalic phase of gastric secretion
 7. Role of Feto-placental unit in maintenance of pregnancy
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SECTION C (PHYSIOLOGY)

INSTRUCTIONS:

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- Put one tick (✓) mark to only one answer that you consider correct for each question.
- Mark your tick (✓) in pen.

Multiple Choice Questions (MCQs):

[10X1=10]

1. Mass movement is observed commonly in which part of the GIT?
 - a. Oesophagus
 - b. Small Intestine
 - c. Large intestine
 - d. Stomach
2. The P wave in ECG represents
 - a. Atrial systole
 - b. Atrial depolarisation
 - c. Atrial diastole
 - d. Atrial repolarisation
3. Presbyopia is the loss of of the lens
 - a. Accommodation
 - b. Convergence
 - c. Divergence
 - d. Opacification
4. Which of the following is **not** observed in Parkinson's disease?
 - a. Intentional tremor
 - b. Resting tremor
 - c. pill rolling movement
 - d. Festinant gait
5. Which of the following Vitamin is required for the maturation of RBC?
 - a. Vit B1
 - b. Vit B6
 - c. Vit B12
 - d. Vit B2
6. Irregular heartbeat is known as
 - a. Tachycardia
 - b. Arrhythmia
 - c. Bradycardia
 - d. Dysthymia
7. The major control centre for Autonomic Nervous System is the:
 - a. Thalamus
 - b. Limbic system
 - c. Hypothalamus
 - d. Motor cortex
8. Normal value of creatinine in plasma is
 - a. 0.7 – 1.3 mg/dl
 - b. 40 – 60 mg/dl
 - c. 5 – 7.5 mg/dl
 - d. 100 – 140 mg/dl
9. Stroke volume is
 - a. Ventricular ejection per systole
 - b. Ventricular ejection per minute
 - c. Atrial ejection per systole
 - d. Atrial ejection per minute
10. Zona glomerulosa secretes
 - a. Glucocorticoids
 - b. Stress hormones
 - c. Sex steroids
 - d. Mineralocorticoids