



001/24

The West Bengal University of Health Sciences
MBBS 1st Professional Examination (New Regulation),
February-March 2024

Subject: Anatomy

Full Marks : 100

Paper : I

Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

1. a) A female patient is presented in medicine OPD with black stool and vomiting of blood.
i) Name the condition patient suffers from.
ii) Name the important sites where portocaval anastomosis is present in the body.
iii) Explain the causes of black stool and vomiting of blood by the patient.
iv) Draw a labelled diagram of histological picture of liver.
v) How does portal vein formed in the body?
vi) Name the important veins draining into portal vein. 1+3+3+3+2+3
- b) A 53 year old patient with history of cervical spondylosis (degeneration of bone or disc), complains of shortness of breath for last 15 days when lying flat. After radiological investigation, he is diagnosed as diaphragmatic paralysis.
i) Explain the causes of paralysis of diaphragm in this case.
ii) Role of diaphragm in normal breathing.
iii) Write in brief about major openings of diaphragm.
iv) What is hiatal hernia?
v) Enumerate the embryological sources of diaphragm. 2+3+5+2+3
2. a) On routine ultrasound of a lady, one of the kidneys was found in the pelvic cavity. Explain anatomically. Describe the development of kidney with suitable diagrams. Write in brief about different developmental anomalies of kidney. 2+4+4
- b) A patient presented with wrist drop after a car accident resulting in fracture of the shaft humerus. Which nerve is affected? Describe the nerve involved under the following headings:
i) Root value.
ii) Course with relation in the arm.
iii) Distribution in the arm.
iv) Cause of wrist drop. 1+1+3+3+2
- c) Describe the Placenta under the following headings: 2+4+4
i) Gross features.
ii) Formation of different chorionic villi with diagrams.
iii) Types of placenta.
3. Write short notes on the following: 2x5
a) Enumerate and describe professional qualities and roles of a physician.
b) Describe the classification of glands with examples.
4. Explain the following statements: 5x4
a) Haemorrhoids develop frequently during later stage of pregnancy.
b) In pleural drainage, needle is inserted along upper border of lower rib.
c) Varicosity of pampiniform plexus of vein is more common in left side.
d) Infection of long bones affects primarily the metaphysis.
e) Preservation of splenic hilar tissue is essential during splenectomy.

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5. Choose the correct option for each of the following: 10x1
- i) The great cardiac vein lies in which groove:
- a) Anterior part of right coronary sulcus.
 - b) Posterior part of right coronary sulcus.
 - c) Anterior inter ventricular groove.
 - d) Posterior inter ventricular groove.
- ii) 'Proximal wing tendon' of dorsal digital expansion are:
- a) Lumbricals.
 - b) Palmar interossei.
 - c) Dorsal interossei.
 - d) Both interossei.
- iii) The 7th to 11th intercostal nerves appears in the anterior abdominal wall through:
- a) Costal origins of diaphragm and transversus abdominis
 - b) Internal and external oblique.
 - c) Internal oblique and transversus abdominis.
 - d) Internal and external oblique.
- iv) Meckel's diverticulum is derived from:
- a) Allantoic diverticulum.
 - b) Omphalomesenteric duct.
 - c) Ventral mesogastrium.
 - d) Ductus arteriosclerosis.
- v) Which of the following muscle is developed from ectoderm?
- a) Levator palpebrae superioris.
 - b) Sphincter pupillae
 - c) Latissimus dorsi.
 - d) Deltoid
- vi) Fibrous pericardium is innervated by:
- a) Vagus nerve.
 - b) Phrenic nerve.
 - c) Intercostal nerve.
 - d) Thoracic splanchnic nerve.
- vii) Uterus didelphys consists of
- a) Single uterus, double cervix and vagina.
 - b) Double uterus, double cervix, double vagina.
 - c) Double uterus, single cervix and vagina.
 - d) Double uterus and cervix with single vagina.
- viii) Lining epithelium of male urethra from colliculus to commencement of terminal fossa:
- a) Transitional.
 - b) Stratified squamous.
 - c) Stratified cuboidal.
 - d) Stratified columnar.
- ix) Which cells of gastric gland give beaded appearance?
- a) Peptic cells
 - b) Oxyntic cells
 - c) Mucus cells
 - d) G cells
- x) Select the incorrect statement about the lower end of radius:
- a) It is the widest part of the bone.
 - b) Its posterior surface presents lister's tubercle.
 - c) Groove lateral to lister's tubercle lodges the tendon of extensor pollicis.
 - d) Its medial surface presents the ulnar notch.