

001/22

**The West Bengal University of Health Sciences**  
**MBBS 1<sup>st</sup> Professional Examination (New Regulation),**  
**February - March 2022**

Subject: Anatomy

Full Marks : 100

Paper : I

Time : 3 hours

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

1. a) Following volleyball practice a player developed dislocation of right shoulder joint.
  - a) Which nerve may be commonly injured in this case and why? .
  - b) Enumerate the ligaments of the joint.
  - c) What are the factors which maintain the stability of the joint?
  - d) Describe the abduction movement of the joint.
  - e) What is scapulo-humeral rhythm?
  - f) Justify the statement - the shoulder joint has gained mobility at the cost of stability. 2+3+2+4+2+2
- b) Describe the typical intercostals space. Enumerate the contents. Mention the chief muscles of inspiration and expiration. 3+8+2+2
2. a) Describe the visceral relations of the spleen and give a brief account of splenic circulation. 4+6
  - b) Describe the formation of the brachial plexus and name its branches. 4+6
  - c) Briefly discuss the Axillary lymph nodes and its clinical significance. 7+3
3. Write a short notes on the following: 2x5
  - a) Roles of a doctor in the society.
  - b) Epiphysis.
4. Explain the following statements: 5x4
  - a) Cancer of the head of the pancreas may give rise to obstructive jaundice.
  - b) Coronary disease in old age is less fatal than in young age.
  - c) Osteomyelitis is common at the metaphysis of a long bone.
  - d) The pain of acute cholecystitis may be referred to the right shoulder.
  - e) Long thoracic nerve injury presents with winging of scapula.
5. Choose the correct option for each of the following: 10x1
  - i) Haversian system is seen in
    - a) Cortical bone.
    - b) Cancellous bone.
    - c) Teeth.
    - d) Nails.
  - ii) Sensory innervation of the dorsum of hand is provided by
    - a) Radial & ulnar nerves.
    - b) Radial & median nerves.
    - c) Ulnar & median nerves.
    - d) Radial, Ulnar & median nerves.

- iii) Ligamentum flavum consists of -
  - a) Type I collagen.
  - b) Type II collagen.
  - c) Reticulin.
  - d) Elastin.
- iv) In pseudo pancreatic cyst the collection is in the
  - a) Greater sac.
  - b) Lesser sac.
  - c) Main pancreatic duct.
  - d) Duct of santorini.
- v) Which of the following is a branch of the external iliac artery?
  - a) Superficial circumflex iliac artery.
  - b) Superior epigastric artery.
  - c) Inferior gluteal artery.
  - d) Inferior epigastric artery.
- vi) The membranous part of the interventricular septum lies between
  - a) RA & LV.
  - b) LA & RV.
  - c) RA & RV.
  - d) LA & LV.
- vii) Cardiac muscle can be identified by the presence of
  - a) Intercalated disc.
  - b) Flat peripheral nuclei.
  - c) Dark and light band.
  - d) Sacromere.
- viii) Hilton's line is represented by -
  - a) Lower end of anal valves.
  - b) Lower end of anal columns.
  - c) Lower end of internal anal sphincter.
  - d) Lower end of external anal sphincter.
- ix) Newborn baby presents with discharge of faecal matter from the umbilicus. The probable diagnosis would be -
  - a) Meckel's diverticulum.
  - b) Umbilical urinary fistula.
  - c) Umbilical faecal fistula.
  - d) Enterocyst.
- x) All of the following are true regarding pudendal nerve except -
  - a) Sensory & motor.
  - b) Root value S2,S3,S4.
  - c) Leaves pelvis through lesser sciatic foramen.
  - d) Main nerve supply to perineum.