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## The West Bengal University of Health Sciences MBBS 1st Professional Examination (New Regulation), August 2024

Full Marks: 100 Time: 3 hours

Subject: Anatomy Paper : I

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

a) A 62 year old man complaining of shortness of breadth, syncopal attacks and fatigue was diagnosed to have severe mitral stenosis. Under these circumstances explain the following-1. 3+4+4+4

i) What are the components of the mitral valve complex?

ii) What are the different types of chordae tendineae? Draw a labelled diagram.

- iii) What are the sources of development of the interventricular septum?
- b) An elderly man suffering from carcinoma of prostate diagnosed to have metastasis in the

Justify the metastasis using your knowledge of anatomy.

ii) Discuss briefly the capsules, lobes and relations of the prostate gland.

iii) Discuss microanatomy of the prostate gland using suitable labelled diagram.

3+2+3+4+3

 a) Classify multicellular glands according to the secretory mechanism with examples. Explain with diagram the difference between serous and mucous acinus. 2.

 b) Describe the lumbrical muscles of the palm under the following heading: i) Type of muscle. ii) Attachments. iii) Nerve supply. iv) Action.

2+4+2+2

- c) Classify cartilage. Draw labelled diagrams of the different types of cartilages and give the characteristics of each of them. Give examples of each of them. 2x5
- Write short notes on the following: 3.

- a) Folding of embryo. b) Communication is a fundamental prerequisite in medical profession.

Explain the following statements:

5x4

a) Ovary experiences an incomplete journey during its descent.

b) Stab wounds at the root of the neck will lead to tension pneumothorax and surgical

c) A palpable nodule in the axilla of an elderly lady should be properly cared.

d) Cervical rib may be associated with thoracic outlet syndrome.

e) Volkmann's ischemic contracture following supracondylar fracture of humerus.

Choose the correct option for each of the following:

10x1

- i) The neurovascular plane of the anterior abdominal wall lies between which muscles/fasciae/membranes?
  - a) External oblique and internal oblique muscles.
  - b) Internal oblique and transversus abdominis muscles.
  - c) Trasversus abdominis muscle and fascia transversalis.
  - d) Fascia transversalis and parietal peritoneum.

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- ii) All the following features are seen in the neurons of the dorsal root ganglia except:
  - a) They are multipolar.

b) They contain lipofuscin granules.

c) They have centrally located nuclei.

- d) They are derived from neural crest cells.
- (iii) Which of the following is not a branch of the posterior cord of brachial plexus?
  - a) Dorsal scapular nerve.
  - b) Upper subscapular nerve.
  - c) Lower subscapular nerve .
  - d) Axillary nerve.
- iv) A patient with external haemorrhoids develops pain while passing stool. The nerve mediating this pain is:

a) Sympathetic plexus.

b) Hypogastric nerve.

c) Splanchnic visceral nerve.

d) Pudendal nerve.

- v) Fracture around the anatomical snuff box due to fall on outstretched hand involves distraction of
  - a) Scaphoid lunate.

b) Trapezoid - trapezium.

c) Scaphoid - trapezium.

- d) Hamate lunate.
- vi) False statement regarding cardinal veins is:
- a) The left posterior cardinal vein regresses entirely.
- b) The right posterior cardinal vein regresses except for its cephalic part.
- c) The cephalic part of the left posterior vein obliterates to form a fibrous thread within the fold of Marshall.
- d) The caudal part of the right anterior cardinal vein forms the superior vena cava.
- vii) In case of perinephric abscess the fluid collects in:
- a) Between renal fascia and fascia transversalis.
- b) Between renal capsule and renal fascia.
- e) Between fascia transversalis and peritoneum.
- d) Between renal cortex and renal capsule.
- viii) Regarding bronchial veins incorrect observation is:
- a) Superficial veins receive blood from pulmonary pleura.
- b) Right superficial vein drains into arch of azygos vein.
- Both superficial and deep veins drain into right atrium.
- d) Deep bronchial veins drain into pulmonary vein.
- ix) Which two embryological structures together form the bilaminar disc?

a) Cytotrophoblast and Hypoblast.

b) Hypoblast and Epiblast.

c) Epiblast and Cytotrophoblast.

- d) Syncytiotrophoblast and Inner cell mass.
- x) Regarding rectus sheath and its contents the true statement is:
- a) The posterior wall of the rectus sheath is adherent to the rectus abdominis muscle.
- b) During surgery the rectus abdominis is retracted laterally to expose the posterior wall of the sheath.
- c) The lower part of the anterior lamella of the rectus sheath is thinner than the other parts.
- d) The inferior epigastric artery enters the rectus sheath behind the arcuate line.