

Total No. of Printed Pages - 2

SS/MBBS-I/1st IA/ANA/02-25

2025

(February)

ANATOMY

Full Marks: 100

Time: 3 hours

**The figures in the margin indicate
full marks for the questions**

Answer all questions

1. Choose the correct answer: 1x5=5

i. Which of the following is a hinge variety of synovial joint?

- a) Shoulder joint
- b) Manubriosternal joint
- c) Elbow joint
- d) Ankle joint

ii. The correct order of barriers through which the sperm has to pass through during fertilization are

- a) zona pellucida, vitelline membrane, corona radiata
zona pellucida, corona radiata, vitelline membrane
- c) vitelline membrane, corona radiata, zona pellucida
corona radiata, zona pellucida, vitelline membrane

iii. Wrist drop is due to injury of

- a) ulnar nerve

- b) median nerve
- c) radial nerve
- d) anterior interosseous nerve

iv) The cytotrophoblast cells during the second week of human embryonic development give rise to

- a) epiblast and hypoblast layer
- b) amniotic cavity
- c) yolk sac
- d) chorionic villi

v. Ovulation occurs due to

- a) high concentration of progesterone
- b) high concentration of estrogen
- LH surge
- d) decreased level of LH

2. Describe the shoulder joint under the following headings: $2+3+3+4+3=15$

- a) Type and articular surfaces
- b) Ligaments
- c) Rotator cuff
- d) Actions
- e) Applied anatomy

3. Describe the right coronary artery of heart under the following headings:
 $2+4+5+3+1=15$

- a) Origin

- b) Course
- c) Branches
- d) Areas of distribution
- e) What is coronary dominance?

4. A lady presented to the surgery OPD with a painless hard lump in her left breast. Examination of the breast revealed peau d'orange appearance with retraction of the nipple and loss of mobility. A clinical diagnosis of carcinoma breast was made. With your knowledge of Anatomy, answer the following:
 $2+3+3+2=10$

- a) Why was the breast fixed?
- b) Anatomical basis of peau d'orange and retraction of nipple.
- c) Lymphatic drainage of the breast
- d) Arterial supply of the breast

5. Write short notes on:

5x8=40

- a) Spermiogenesis.
- b) Down Syndrome.
- c) Epiphysis.
- d) Bronchopulmonary segments.
- e) Development of interventricular septum.
- f) Carpal tunnel syndrome.
- g) Histology of spleen.
- h) Microanatomy of compact bone.

6. Answer in brief:

2x5=10

- a) Enumerate the deformities present in a case of Tetralogy of Fallot.

- b) Name the branches of lateral cord of Brachial Plexus.
- c) Name the terminal branch of brachial artery.
- d) Name two examples of ball and socket type of joint.
- e) Mention the structures piercing the clavipectoral fascia.

7. Write on "Cadaver is our first teacher."

5

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