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34 (1) ANAT 1-1

2022

(Held in 2023)

ANATOMY

Full Marks : 100

Time : Three hours

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

1. Long questions : *(any two)* 10×2=20
 - (i) Describe shoulder joint under the following headings :
 - (a) Articulation 2
 - (b) Ligaments 3
 - (c) Movements with muscle involvement 5
 - (ii) Describe heart under the following headings :
 - (a) Chambers of heart 2
 - (b) Blood supply 3
 - (c) Conduction system 5
 - (iii) Write in detail about anatomy of liver. 10

Contd.

2. Answer the following : **(any ten)** $5 \times 10 = 50$

- (i) Cubital fossa
- (ii) Adductor canal
- (iii) Bronchopulmonary segments
- (iv) Function of trachea
- (v) Ligaments of hip joint
- (vi) Functions of kidney
- (vii) Cranial nerves
- (viii) Side determination of ulna
- (ix) Pituitary gland
- (x) Erb's Paralysis
- (xi) Histology of stomach
- (xii) Hamstrings muscle

3. Answer the following : **(any five)** $2 \times 5 = 10$

- (i) Carpel tunnel syndrome
- (ii) Coronary artery
- (iii) Rotator cuff
- (iv) Lobes of lung
- (v) Muscles of pelvic floor
- (vi) Thalamus
- (vii) Cerebellum

4. Choose the correct answer : $1 \times 20 = 20$

- (i) Lungs are enclosed within
 - (a) perichondrium
 - (b) periosteum
 - (c) pleural membrane
 - (d) pericardium
- (ii) Heart beat originates from
 - (a) papillary muscles
 - (b) SA node
 - (c) AV node
 - (d) Purkinje fibres
- (iii) Which of the following joints is immovable ?
 - (a) Fibrous joint
 - (b) Synovial joint
 - (c) Cartilaginous joint
 - (d) Ball and socket
- (iv) Cartilage at end of long bone
 - (a) calcified cartilage
 - (b) fibrous cartilage
 - (c) hyaline cartilage
 - (d) elastic cartilage

- (v) A deltoid ridge is present in
(a) humerus
(b) femur
(c) radius
(d) ulna
- (vi) Intercostal muscles are attached to
(a) diaphragm
(b) ribs
(c) thigh
(d) abdomen
- (vii) Which of the following is a part of hindbrain ?
(a) Hypothalamus
(b) Cerebellum
(c) Spinal cord
(d) Corpus callosum
- (viii) Name the smallest bone in the human body
(a) incus
(b) malleus
(c) vomer
(d) stapes

- (ix) How many pairs of ribs all present in human body ?
(a) 11
(b) 12
(c) 13
(d) 14
- (x) The bones are held together by elastic tissue also called
(a) fibrous tissue
(b) ligaments
(c) tendons
(d) fibrin
- (xi) The shoulder blade bone known is as
(a) patella
(b) scapula
(c) clavicle
(d) sternum
- (xii) Terminal branch of external carotid artery is
(a) facial artery
(b) lingual artery
(c) maxillary artery
(d) superior thyroid artery

- (xiii) Lateral rectus is supplied by
- (a) Oculomotor nerve
 - (b) Trigeminal nerve
 - (c) Trochlear nerve
 - (d) Abducent nerve
- (xiv) JG apparatus includes all, except
- (a) JG cells
 - (b) macula densa
 - (c) podocyte
 - (d) Lacis cell
- (xv) First pelvic sacral foramina transmits
- (a) dorsal ramus of S_1
 - (b) ventral ramus of S_1
 - (c) ventral ramus of L_5
 - (d) dorsal ramus of S_2
- (xvi) Teres minor is supplied by
- (a) axillary nerve
 - (b) radial nerve
 - (c) median nerve
 - (d) ulnar nerve

- (xvii) Cell responsible for bone formation is
- (a) osteocyte
 - (b) osteoprogenitor cell
 - (c) osteoclast
 - (d) osteoblast
- (xviii) Trapezius is attached to all, except
- (a) 1st rib
 - (b) clavicle
 - (c) scapula
 - (d) occipital bone
- (xix) Eversion of foot is done by
- (a) popliteus
 - (b) peroneus longus
 - (c) biceps femoris
 - (d) soleus
- (xx) Stomach is lined by
- (a) simple columnar epithelium
 - (b) simple cuboidal epithelium
 - (c) simple ciliated columnar epithelium
 - (d) simple squamous epithelium
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