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34 (1) ANAT 1.1

2018

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) Define a Joint. Classify the joints.

Describe the knee joint under following headings :

(a) Formation and Ligaments

(b) Movement of the joint and the muscles acting around it

(c) Blood supply and nerve supply

(d) Applied Anatomy.

(II) Describe the human Lungs in details with neat diagram.

Contd.

(III) Describe the human Uterus in details.
Mention the supports of uterus.
Mention blood supply and nerve supply
of uterus.

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

- (i) Brachial Plexus
- (ii) Cubital Fossa
- (iii) Brachio Radialis Muscle
- (iv) Carpal Tunnel Syndrome
- (v) Femoral Triangle
- (vi) Hamstring Muscle
- (vii) Histology of Compact Bone
- (viii) Inguinal Canal
- (ix) Intercostal Space and its content
- (x) Human Stomach
- (xi) Spinal Cord
- (xii) Anterior Triangle of Neck.

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

- (i) Carotid sheath and its content
- (ii) Sensory nerve supply of face

- (iii) Contents of sub-occipital triangle
- (iv) Functions of Cerebellum
- (v) Functions of Placenta
- (vi) Contents of Hunter's Canal
- (vii) Nerve supply of Adductor Magnus.

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

- (i) Following are the actions of Deltoid Muscle except :
 - (a) Flexion
 - (b) Extension
 - (c) Adduction
 - (d) Abduction.
- (ii) Epithelium develops from
 - (a) Ectoderm
 - (b) Endoderm
 - (c) Mesoderm
 - (d) All.

- (iii) Nerve supply of pronator teres is
- (a) Ulnar nerve
 - (b) Radial nerve
 - (c) Median nerve
 - (d) Axillary nerve.
- (iv) Wrist Drop occurs due to —
- (a) Ulnar nerve palsy
 - (b) Median nerve palsy
 - (c) Radial nerve palsy
 - (d) Musculocutaneous nerve palsy.
- (v) Fertilization occurs in :
- (a) Intramural
 - (b) Fimbria
 - (c) Ampulla
 - (d) Infundibulum.
- (vi) 'Strap' muscles of the neck include the following muscles except :
- (a) Sternothyroid
 - (b) Sternohyoid
 - (c) Thyrohyoid
 - (d) Sternocleidomastoid.

- (vii) Brainstem consists of following components except :
- (a) Midbrain
 - (b) Pons
 - (c) Cerebellum
 - (d) Medulla Oblongata.
- (viii) Following arteries take part in formation of circle of Willis except :
- (a) Anterior communicating
 - (b) Anterior cerebral
 - (c) Middle cerebral
 - (d) Posterior cerebral.
- (ix) Following are the branches of arch of aorta except :
- (a) Brachiocephalic trunk
 - (b) Right subclavian artery
 - (c) Left subclavian artery
 - (d) Left common carotid artery.
- (x) Which muscle is known as the peripheral heart ?
- (a) Gastrocnemius
 - (b) Soleus
 - (c) Tibialis Posterior
 - (d) Tibialis Anterior.

- (xi) Following are the muscles of first layer of sole except :
- (a) Flexor Digitorum Brevis
 - (b) Abductor Hallucis
 - (c) Adductor Hallucis
 - (d) Abductor Digiti Minimi.
- (xii) Following are the contents of rectus sheath except :
- (a) Rectus Abdominis
 - (b) Superior Epigastric Artery
 - (c) Superficial Epigastric Artery
 - (d) Inferior Epigastric Artery.
- (xiii) Following are the muscles of posterior abdominal wall except.
- (a) Psoas Major
 - (b) Iliacus
 - (c) Quadratus Lumborum
 - (d) Diaphragm.
- (xiv) Hassal's corpuscle is a histological feature of
- (a) Lymph node
 - (b) Tonsil
 - (c) Spleen
 - (d) Thymus

- (xv) Safety muscle of the tongue is :
- (a) Hyoglossus
 - (b) Styloglossus
 - (c) Genioglossus
 - (d) Palatoglossus.
- (xvi) Following are cerebellar nuclei except :
- (a) Red Nucleus
 - (b) Dentate Nucleus
 - (c) Fastigial Nucleus
 - (d) Globose Nucleus.
- (xvii) Chief extensor muscle of Hip joint is :
- (a) Gluteus Maximus
 - (b) Gluteus Minimus
 - (c) Gluteus Medius
 - (d) Psoas Major.
- (xviii) Following are the descending tracts except :
- (a) Corticospinal tract
 - (b) Rubrospinal tract
 - (c) Spinocerebellar tract
 - (d) Reticulospinal tract.

(xix) Pronation and supination movement occurs in

- (a) Wrist Joint
- (b) Elbow Joint
- (c) Radio-Ulnar Joint
- (d) All of the above.

(xx) Root value of sciatic nerve is -

- (a) $L_4L_5S_1S_2$
- (b) $L_3L_4L_5S_1S_2$
- (c) $L_4L_5S_1S_2S_3$
- (d) $L_5S_1S_2S_3$.