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34 (1) ANAT 1.1

2019

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 pituitary gland under the following headings :
- | | |
|------------------------|---|
| (a) Location. | 1 |
| (b) Parts. | 2 |
| (c) Microanatomy. | 3 |
| (d) Hormones produced. | 2 |
| (e) Blood supply. | 2 |

Contd.

II. Discuss hand under the following headings :

- (a) Intrinsic muscles. 5
- (b) Extrinsic muscles. 3
- (c) Palmar aponeurosis. 2

III. Describe the male reproductive system in detail with neat diagrams. 10

2. Answer the following : (**any ten**)

5×10=50

- (i) Radial Nerve
- (ii) Lateral wall of nose
- (iii) Muscles of anterior compartment of arm
- (iv) Posterior triangle of Neck
- (v) Circle of Willis
- (vi) Coronary circulation
- (vii) Adrenal cortex
- (viii) Ovarian follicles
- (ix) Basal ganglia

(x) Arches of foot

(xi) Neuron

(xii) Trendelenburg's sign.

3. Answer **any five** of the following :

2×5=10

- (i) Muscles of mastication
- (ii) Urothelium
- (iii) Gastrulation
- (iv) Muscles producing eversion of foot
- (v) Sensory supply of tongue
- (vi) Extraocular muscles
- (vii) Structures passing through lesser sciatic foramen.

4. Choose the correct answer : 20×1=20

- (i) Superficial inguinal ring is a gap in —
 - (a) External oblique aponeurosis
 - (b) Internal oblique aponeurosis
 - (c) Fascia transversalis
 - (d) Transversus abdominis.

(ii) Popliteus is attached to —

- (a) Medial meniscus
- (b) Lateral meniscus
- (c) Anterior cruciate ligament
- (d) Posterior cruciate ligament.

(iii) Structure passing deep to flexor retinaculum of leg is —

- (a) Long saphenous vein
- (b) Tibialis anterior tendon
- (c) Posterior tibial artery
- (d) Peroneus tertius.

(iv) 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 .

(v) Intrinsic neurons of cerebellum are all except —

- (a) Granule cell
- (b) Pyramidal cell
- (c) Purkinje cell
- (d) Basket cell.

(vi) Structure passing through foramen ovale is —

- (a) Abducens nerve
- (b) Optic nerve
- (c) Maxillary nerve
- (d) Mandibular nerve.

(vii) Neck of pancreas is related on its posterior surface to —

- (a) Portal vein
- (b) Inferior vena cava
- (c) Splenic vein
- (d) Bile duct.

(viii) Splenic artery is a branch of —

- (a) Superior mesenteric artery
- (b) Inferior mesenteric artery
- (c) Coeliac artery
- (d) Common hepatic artery.

(ix) Peroneus longus is supplied by —

- (a) Deep peroneal nerve
- (b) Femoral nerve
- (c) Superficial peroneal nerve
- (d) Tibial nerve.

(x) Teres minor is supplied by —

- (a) Axillary nerve
- (b) Radial nerve
- (c) Median nerve
- (d) Ulnar nerve.

(xi) Esophageal opening of diaphragm is present at which vertebral level?

- (a) T₈
- ~~(b)~~ T₁₀
- (c) T₁₂
- (d) L₂

(xii) Maxillary nerve is a branch of —

- (a) Mandibular nerve
- (b) Abducens nerve
- (c) Oculomotor nerve
- (d) Trigeminal nerve

(xiii) Safety muscle of larynx is —

- (a) Posterior cricoarytenoid
- (b) Lateral cricoarytenoid
- (c) Cricothyroid
- (d) Vocalis

(xiv) Cell responsible for bone formation is —

- (a) Osteocyte
- (b) Osteoprogenitor cell
- (c) Osteoclast
- (d) Osteoblast.

(xv) Head of human is —

- (a) Pressure epiphysis
- ~~(b)~~ Traction epiphysis
- (c) Atavistic epiphysis
- (d) Aberrant epiphysis.

(xvi) Sternoclavicular joint is —

- (a) Hinge
- (b) Saddle
- (c) Pivot
- (d) Ellipsoid.

(xvii) Oesophagus is lined by —

- (a) Simple columnar epithelium
- (b) Non-keratinized stratified squamous
- (c) Simple squamous epithelium
- (d) Simple cuboidal epithelium.

(xviii) Pseudostratified ciliated columnar epithelium is present in —

- (a) Duodenum
- (b) Gall bladder
- (c) Trachea
- (d) Fallopian tube.

(xix) Trapezius is attached to all except —

- (a) First rib
- (b) Clavicle
- (c) Scapula
- (d) Occipital bone.

(xx) Which of the following is not a hamstring muscle ?

- (a) Semimembranosus
- (b) Ischial head of adductor magnus
- (c) Short head of biceps femoris
- (d) Semitendinosus.