

Enumerations:

① Muscles inserted on the dorsal digital expansion of index finger (5)

- Extensor digitorum
- Extensor indicis
- 1st ~~4~~ lumbricals
- 2nd Palmer interossei
- 1st Dorsal interossei

② Structures bounding quadrangular space (4)

- long head of triceps (^{medially} laterally)
- ~~triceps~~ minor (^{upper} border), subscapularis
- ~~triceps~~ major (^{upper} ^{inferiorly} border)
- surgical neck of humerus (laterally)

* contents - Axillary N.
- Post. circumflex humeral v.

③ Structures passing superficial to the flexor retinaculum at wrist (5)

- Palmaris longus tendon
- Ulnar nerve
- Ulnar vessels
- Palmar cut. br. of median N.
- Palmar cut. br. of ulnar N.

* Deep to flexor retinaculum

- Median Nerve
- tendons of flexor digitorum superficialis
- ~~profundus~~
- tendon of flexor pollicis longus
- ulnar bursa, radial bursa

④ Branches of profunda brachii Artery (4)

- Radial collateral A. (Ant. descending A.)
- Middle collateral A. (Post. descending A.)
- Deltoid branch
- Nutrient artery to humerus

* Deep to extensor retinaculum

- I → Abductor pollicis longus
→ Extensor pollicis brevis
- II → ECRB, ECRB
- III → Ext. pollicis longus
- IV → Ext. digitorum, ext. indicis
and. introsseous A, post. interosse
- V → Ext. digiti minimi
- VI → Ext. carpi ulnaris

⑤ Structures attached to pisiform bone (4)

- Flexor carpi ulnaris
- Abductor digiti minimi
- Flexor retinaculum

⑥ structures supplied by ~~musculodental N.~~
auriculotemporal N. (6)

- ~~auricular~~
 - Skin of Zygus
 - ext. auditory meatus
 - Ant. inf. part of Tympanic membrane
 - Skin of Temple
 - Temporomandibular jt.
 - Parotid gland
- } auricular part
- } Temporal part

⑦ Nerves supplying tympanic membrane (3)

- Auriculotemporal N.
 - Auricular br. of vagus N.
 - Tympanic br. of glossopharyngeal N.
- } outer
- } inner

⑧ Lymphoid structures forming inner ring of Waldeyer (4)

- Pharyngeal tonsil
- tubal tonsil
- Palatine tonsil
- Lingual tonsil

⑨ opening in the middle meatus of the lateral wall of nose (4)

- Frontal air sinus
- ant. ethmoidal sinus
- middle ethmoidal sinus
- maxillary air sinus

⑩ muscles involved after oculomotor nerve palsy (7)

- MR
- SR
- IR
- IO
- LPS
- lidium muscle

11) Bones derived from 1st branchial arch (8)

- Mandible
- Maxilla
- Zygomatic
- Palatine
- Temporal
- spine of sphenoid
- Malleus
- Incus

12) Branches of pterygopalatine ganglion (5)

- Lacrimal
- Nasal
- Orbital
- Palatine
- Pharyngeal

DNP_{2L}

13) Different sites of origin of tensor veli palatine muscles (2)

- lateral side of eustachian tube
- greater wing & scaphoid fossa of sphenoid bone

14) Parts of orbicularis oculi muscle (3)

- orbital
- palpebral
- lacrimal

15) Development of pituitary gland (2)

- Anterior and intermediate part = from Rathke's pouch
- pars nervosa & stalk = from downward growth of the floor of 3rd ventricle aka hypophysial evagination.

16) Constituents of Archicerebellum (3)

- Lingula of vermis
- folioleculonodular lobe
- nucleus fastigii

① derivatives of 1st branchial arch (4)

- Malleus
- Incus
- ant. ligament of malleus
- sphenomandibular ligament
- Mandible

② Neurons which form synaptic glomerules in cerebellum (3)

- Rosette of mossy fibres
- dendrites of granule cell
- axons of golgi neurons

③ Features of UMN lesion (4)

- Hypertonia
- Hyperreflexia
- Babinski sign +ve
- Spasticity
- Rigidity

④ Brodmann's number of primary sensory cortices (3)

- 3
- 1
- 2

* structures related to Hyoglossus muscle

• Superficial - Lingual N.

- Hypoglossal N.

- Submandibular ganglion

- Submandibular duct

- deep part of submandibular gland

Deep - Lingual A.

- glossopharyngeal N.

- stylohyoid ligament

- geniohyoid

- middle constrictor

- inf. longitudinal muscle

• commonest source of bleeding after tonsillectomy is - Paratonsillar vein

(21) Sources of development of arch of aorta (3)

- Aortic sac
- ~~left~~ horn of aortic sac
- left 4th arch artery

(22) Tributaries of great saphenous vein (11)

- Medial marginal vein ✓
- Ant. vein of leg
- Posterior arch vein
- vein from calf
- Accessory saphenous vein
- Ant. cutaneous vein of thigh
- ✓ Superficial epigastric v. ✓
- ✓ superficial circumflex v. ✓
- ✓ superficial external pudendal v. ✓
- Deep external pudendal vein
- Thoracoepigastric vein

(23) structures contributing to longitudinal arch of foot

(24) muscles acting as medial rotators of hip joint (3)

- Tensor fasciae lata
- Gluteus medius } Ant. fibres.
- Gluteus minimus }

30) Tributaries of hemizygous vein (7)

- ✓ - Subcostal vein
- ✓ - Ascending lumbar vein
- ✓ - Lumbar azygous vein
- Esophageal vein
- ✓ - 9-11 Post. I/C veins

31) Branches of right coronary artery (6)

- Marginal
- Post. interventricular
- Nodal
- Right atrial
- Infundibular
- Terminal

* Left coronary artery (6)

- Anterior interventricular
- diagonal br.
- Left atrial
- Pulmonary
- Terminal
- Circumflex

32) Tributaries of coronary sinus (6)

- Great cardiac vein
- Middle cardiac vein
- Small cardiac vein
- Posterior vein of left ventricle

- Oblique vein of left atrium (Marshall's vein) → develops from left common cardinal ve
 - Right marginal vein
- "duet of Cuvier" which may sometimes, a large lt superior vena cava

33) Attachments of external oblique abdominis muscle (7)

- Lower 8 ribs
- Xiphoid process
- Pubic symphysis
- Iliac crest
- Pubic crest
- Linea alba
- Pectineal line

- superficial epigastric A.
- superficial external pudendal
- superficial circumflex iliac

- * deep → Profunda femoris
- muscular
- deep internal pudendal

35) Ligaments attached to liver (6)

- Ligamentum Teres
- falciform ligament
- Ligamentum venosum
- R. & L. triangular ligament
- Superior coronary ligament

36) Sources of development of vaginal canal (2)

- Dorsal wall of urogenital sinus
- Paramesonephric duct
- Uterovaginal canal
- Mullerian tubercle

37) Attachments on pelvic surface of sacrum (4)

- Iliacus
- Piriformis
- Coccygeus
- Ant. longitudinal ligament

38) contents of broad ligament. (10)

- uterine tube
- Round ligament of uterus } 2
- ligament of ovary } 2
- uterine vessels } 2
- ovarian vessels } 2
- Uterovaginal & ovarian nerve plexus } 2
- Epoophoron } 2
- Paroophoron } 2
- L.N. and lymph vessels } 2
- Parametrium

39) Arteries supplying greater omentum (2)

- Left & Right gastroepiploic artery

40) Nerves supplying the rectum (2)

- Superior rectal
- Inf. hypogastric plexus

Sym: L₁, L₂

Para: S₂, S₃, S₄

41) Contents of Inguinal canal

- Spermatic cord ♂ or round lig. of uterus ♀
- Iliioinguinal Nerve

* contents of spermatic cord (9)

- Testicular A., artery to ductus deferens, cremasteric A. } 3
- genital br. of genitofemoral N., ilioinguinal nerve, autonomic nerves } 3
- Ductus deferens, pampiniform plexus, remains of processus vaginalis } 3

42) Structures related to Mediastinal surface of right lung (10)

- Right atrium and auricle
- Small part of right ventricle
- SVC
- Lower part of rt. brachiocephalic vein
- Azygos vein
- Oesophagus
- IVC
- Trachea
- Right vagus Nerve
- Right phrenic Nerve

* Left lung (12)

- Pulmonary trunk
- Arch of aorta
- Descending thoracic aorta
- Left subclavian artery
- Thoracic duct
- Oesophagus
- Left. Brachiocephalic vein
- Left vagus N.
- Left phrenic N.
- Left recurrent laryngeal N.
- Left ventricle - left auricle.

- Ureter
- Sacrospinous Ligament

15) Branches of Obturator Nerve (L3)

- Ant. division - Nerve to Pectineus
 - Adductor longus
 - Adductor Brevis
 - gracilis
 - Hip joint
 - Femoral artery
 - subsartorial plexus

- Post. division - obturator externus
 - adductor magnus
 - Knee joint
 - genicular Br.
 - Popliteal artery

46) Branches of internal iliac artery (11)

- Ant. division - Inferior gluteal
 - Obturator
 - Superior vesical
 - Middle rectal
 - Inferior vesical
 - Internal pudendal
 - vaginal
 - uterine

- Post. division - Superior gluteal
 - lateral sacral
 - Iliolumbar

47) Boundaries of pudendal canal

- Lateral - obturator internus fascia
- medial - perineal fascia
- above - lunatic fascia
- Below - sacrotuberous ligament

48) Boundaries of femoral canal

- Ant - inguinal ligament
- Post. - Pectineus and its fascia
- Medial - Lacunar ligament
- Lateral - septum separating it from femoral vein

49) Boundaries of bare area of liver

- Superior - Superior lamina of coronary ligament
- Inferior - Inferior _____
- Lateral - right triangular ligament
- Base - IVC

50) Sources of development of coronary sinus

- medial part → left horn of sinus venosus
- lateral part → proximal part of left common cardinal vein

51) Sources of development of diaphragm

- Central tendon → septum transversum
- Dorsal paired portion → pleuroperitoneal membrane
- Dorsal unpaired portion → dorsal mesentery of oesophagus
- Circumferential portion → lateral thoracic wall

52) Sources of development of liver

- Parenchyma → Hepatic bud (endodermal)
- Sinusoids → umbilical & vitelline veins breaking up
- Fibrous part and Glisson's capsule → septum transversum

53) Nerve supply of urinary bladder (3)

- Para-sym - Pelvic splanchnic N. / Nervi Erigentis (S₂, S₃, S₄)
- Sym - Hypogastric plexus (L₁-L₃)
- Somatic - Internal pudendal N.

54) Nerve supply of stomach

- Para - anterior gastric N. } vagus
- posterior gastric N. }
- Sym - greater splanchnic Nerve } T₆-T₁₀
- coeliac, hepatic plexus }

55) Tributaries of Vena cava (18)

- Right Superior intercostal
- 5-11 post. IIC
- Accessory Hemiazygous
- Hemiazygous
- Right Bronchial
- Oesophageal
- Mediastinal
- Pericardial

(62) Cranial nerves carry the fibres from nucleus ambiguus (3)

- 9, 10, 11

(63) Branches of 2nd part of maxillary artery (4)

- Deep Temporal A.

- Buccal A.

- Masseteric A.

- br. to pterygoid

* 1st part - D A M A I

3rd part - P I C P A S

(64) Layers of Retina (10)

- outer pigmented layer

- layer of rods and cones

- external limiting membrane

- outer nuclear layer

- outer plexiform layer

- inner nuclear layer (bipolar cells)

- inner plexiform layer

- ganglion cell layer

- nerve fibre layer

- internal limiting membrane

* layers of cornea (5)

- Corneal epithelium

- Bowman's membrane

- substantia propria

- Descemet's membrane

- simple squamous mesothelium

(65) Muscles supplied by Radial Nerve (14)

- Long and Medial heads of Triceps

- Lateral head of triceps

- Anconeus

- Brachialis

- Brachioradialis

- Extensor carpi radialis longus

- Extensor carpi radialis brevis

- Supinator

- Extensor digitorum

- Extensor digiti minimi

- Extensor carpi ulnaris

- Abductor pollicis longus

- Extensor pollicis brevis

- Extensor pollicis longus

- Extensor indicis

- winging of scapula
- loss of overhead abduction
- loss of protraction of scapula

(17) Sensory and motor innervations of tongue

- Motor - Hypoglossal Nerve
 - pharyngeal plexus [cranial root of accessory N.]
- Sensory - Lingual Nerve
 - chorda tympani
 - glossopharyngeal nerve
 - internal laryngeal nerve

* muscles of tongue

- Extrinsic -
- Palatoglossus
 - Hyoglossus
 - Styloglossus
 - Genioglossus

- Intrinsic -
- sup. longitudinal
 - Inf. ———
 - Transverse
 - vertical

(18) Structures derived from neural crest

- Neurons of dorsal root ganglia
- neurons of sensory ganglia of 5, 7, 8, 9, X
- Schwann cells
- Adrenal medulla
- chromaffin tissue
- melanoblasts
- satellite cells of pre-aortic ganglia
- neurons & satellite cells of 4 parasymp ganglia
- enteric ganglia of GI tract
- muscles of ciliary body
- sclera and choroid
- substantia propria and post. epithelium of cornea
- C cells of thyroid gland
- derivatives of 1st, 2nd, 3rd pharyngeal cartilages
- cardiac semilunar valves
- Pia mater and arachnoid mater
- mesenchyme of dental papilla & odontoblasts and dentine
- bones of face and part of vault of skull

69) Tributaries of External jugular vein (6)

- Posterior external jugular vein
- anterior jugular vein
- transverse cervical vein
- suprascapular vein
- retromandibular vein (post. div.)
- Posterior auricular vein

70) Branches of Basilar artery (5)

- Anterior inf. cerebellar artery
- Superior cerebellar A.
- Posterior cerebral A.
- Pontine A.
- Labyrinthine A.

* ~~vertebral~~ Vertebral Artery Branches (5)

- Anterior spinal A.
- Posterior spinal A.
- Post. inf. cerebellar A. (PICA)
- Medullary A.
- Meningeal A.

71) Cranial nerve nuclei present in pons (4)

- 5, 6, 7, 8

72) Branches of Mandibular Nerve (9)

- Meningeal branch
 - nerve to medial pterygoid
 - Buccal Nerve
 - Deep temporal nerves
 - Masseteric nerve
 - Nerve to lateral pterygoid
 - Inferior alveolar N.
 - Auriculotemporal N.
 - Lingual Nerve
- Main trunk (branches 1-3)
Ant. division (branches 4-6)
Post. trunk (branches 7-9)

* Maxillary Nerve -

- infraorbital
- zygomatic
- Post. superior alveolar

73) Tributaries of superior sagittal sinus (4)

- Parietal emissary vein
- Superior cerebral veins
- Venous lacunae
- vein from nose

74) structures passing through foramen lacerum (4)

- Nerve to pterygoid canal
- ICA
- meningeal br. of ascending Pharyngeal A.
- Emissary vein

75) layers of Hippocampus (3)

- outer molecular layer
- Pyramidal layer
- polymorphic layer

76) Branches of thyrocervical trunk (3)

- supra scapular A.
- Inf. thyroid A.
- Transverse cervical A.

77) Derivatives of 1st Branchial arch (16)

- medial and lateral pterygoid
- masseter
- Temporalis
- Mylohyoid
- Ant. belly of digastric
- Tensor tympani
- Tensor palati
- Incus
- Malleus
- Ant. lig. of malleus
- sphenomandibular ligament
- Maxilla
- Mandible
- zygomatic bone
- Palatine bone
- Temporal bone

- Endocrine control
- Neurosecretion
- General autonomic effect
- Temp. regulation
- Regulation of food and water Intake
- Sexual Behaviour and Reproduction
- Biological clocks
- Emotion, Rage, Fear, Aversion, Pleasure and reward

79) Effects of ulnar nerve injury at medial epicondyle

- Flexor carpi ulnaris & medial half of flexor digitorum profundus are paralysed
- Flexion of terminal phalanges of little and ring fingers are lost.
- loss of adduction of thumb

80) effects of paralysis of brachioradialis muscle

- loss of

81) muscles attached to mandible (5)

- Zygomaticus major
- Buccinator
- Risorius
- levator anguli oris
- depressor anguli oris

82) structures attached to styloid process (5).

- stylomandibular lig.
- stylohyoid lig.
- styloglossus
- stylohyoid
- stylopharyngeus

83) Layers of epidermis (5)

- Stratum corneum
- Stratum Lucidum
- Stratum Granulosum
- Stratum spinosum
- Stratum Basale

84) Muscles attached to proximal phalanx of pollex (5)

- Abductor Pollicis Brevis
- Flexor Pollicis Brevis
- Adductor pollicis
- 1st palmar interossei
- Extensor pollicis Brevis

85) Movements of temporomandibular joint (5)

- Depression
- Elevation
- Protraction
- Retraction
- Side to side grinding movement

86) Arteries supplying internal capsule of brain

- Central br. of posterior communicating A.
- Central br. of anterior choroidal A.
- _____ middle cerebral A.
- _____ anterior cerebral A. (Huebner's Artery)

87) Cutaneous innervation of face (13)

- | | |
|----------------------|------------------------|
| - Supratrochlear | - Zygomaticofacial |
| - Supraorbital | - Buccal |
| - Lacrimal | - Mental |
| - Infraorbital | - Auriculotemporal |
| - External nasal | - Great auricular |
| - Infraorbital | - Transverse cutaneous |
| - Zygomaticotemporal | |

88) Muscles acting as extensors at atlanto-occipital joint (6)

- Splenius capitis
- Semispinalis capitis
- Oblique capitis superior
- Rectus capitis posterior major & minor
- Upper part of Trapezius.

- * Lateral bending - Rectus capitis
- Semispinalis capitis
 - Splenius capitis
 - Sternocleidomastoid
 - Trapezius

- * Flexion - Longus capitis
- Rectus capitis anterior

89) Actions of latissimus dorsi muscle

- Adduction
 - Extension
 - medial rotation
- } of shoulder in swimming, climbing, pulling, folding the arm

90) Nuclei present in cross section of cranial part of pons (4)

- Superior sensory nucleus of trigeminal
- motor nucleus of trigeminal
- Superior olivary nucleus
- Pontine nuclei

91) Structures passing through anterior wall of middle ear (2)

- tensor tympani
- eustachian tube

92) Abductors at wrist joint (5)

- Flexor carpi radialis
- ECRL, ECRB
- Abductor pollicis longus
- Extensor pollicis brevis

- * Adductors - Flexor carpi ulnaris
- extensor carpi ulnaris

- * Extensors - ECRL, ECRB
- extensor carpi ulnaris

- * Flexors - Flexor carpi radialis
- flexor carpi ulnaris
 - palmaris longus

93) Lobes of cerebellum (3)

- Anterior lobe
- middle lobe
- flocculonodular lobe

94) Structures present in the floor of 4th ventricle (10)

- locus coeruleus
- substantia ferruginea
- superior fovea
- facial colliculus
- inferior fovea
- vagal triangle
- hypoglossal triangle
- Auditory tubercle
- Striae medullaris
- median eminence

95) Nuclei present in subthalamus (6)

- Red nucleus (rostral part)
- Substantia nigra
- Subthalamic nucleus of Luys
- Zona incerta
- Entopeduncular nucleus
- Reticular nucleus

96) Site of porto caval anastomosis (7)

- Lower part of oesophagus
- Bare area of liver
- Lower part of rectum
- Umbilicus
- falciform lig
- Post. abdominal wall
- Ligamentum venosum

97 Short lateral rotators of thigh (8)

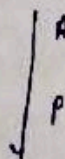
- Sartorius
- Gluteus maximus
- Piriformis
- Superior and Inf. gemelli
- Obturator externus, internus
- Quadratus femoris

* medial rotators (4)

- Gluteus medius, minimus
- Tensor fascia lata
- Gracilis

98 Muscles attached to medial surface of tibia (3)

- Sartorius
- Gracilis
- Semitendinosus



545

99 Muscles supplied by lateral plantar Nerve (14)

- Flexor digitorum accessorius
- Abductor digiti minimi

} main trunk

- ~~Flexor~~ Flexor digiti minimi brevis

- 3rd plantar interossei

- 4th dorsal interossi

} lateral superficial br.

- 2nd, 3rd, 4th lumbricales

- 1st, 2nd, 3rd dorsal interossi

- 1st, 2nd palmar/plantar interossei

- Adductor hallucis

} deep br.

* medial superficial br. → skin lining 4th interdigital cleft

Deep br. → 1st-3rd intermetatarsal spaces

100 * Medial plantar Nerve = (4)

- Abductor hallucis
- Flexor digitorum brevis
- Flexor hallucis brevis
- 1st lumbrical
- 4 digital branches (cut.)

- Left suprarenal gland
- spleen
- stomach
- pancreas
- splenic vessels
- descending colon
- Jejunum
- splenic flexure

* Ant. surface of Right Kidney (5)

- Rt. suprarenal gland
- Liver
- 2nd part of duodenum
- Hepatic flexure of colon
- Jejunum

* Post surface of Kidneys (10)

- Diaphragm
- medial and lateral arcuate ligaments
- psoas major
- quadratus lumborum
- transversus abdominis
- Subcostal nerve and vessels
- Iliohypogastric, Ilioinguinal Nerves
- 11th & 12th rib
↳ Lt. only

(101) structures forming supports of uterus

- Perineal Body
 - Vaginal diaphragm
 - Pelvic diaphragm
- } Muscular supports

- Uterine axis
 - Pubocervical ligament
 - Uterosacral lig.
 - lateral lig. of Mackenroldt
 - Round lig. of uterus
- } Fibromuscular supports

- Uterovesical / Ant. lig
 - Rectouterine / Post. lig
 - Broad lig.
 - Rectum
 - Vagina
- } Secondary supports

⑨ Visceral relations

- (a) Diaphragmatic surface - related to diaphragm
- (b) Visceral surface - fundus, ant. surface of Lt. kidney, splenic flexure of colon, tail of pancreas.

⑩ Arterial supply - Splenic artery forms

- ↳ straight vessels called - penicilli, ellipsoids, arterial capillaries
- It has superior and inf. vascular segments separated by avascular plane.

⑪ Venous drainage - Splenic vein

⑫ Lymphatics - No lymphatics,

⑬ Nerve supply - Sym., vasomotor = coeliac plexus

⑭ Functions - (i) Phagocytosis (ii) Haemopoiesis

- (iii) Immune response (iv) Storage of RBCs

⑮ Histology - 4 components (i) Supporting tissue

(ii) white pulp containing Malpighian corpuscle

(iii) Red pulp

(iv) vascular system

⑯ Development - from cephalic part of dorsal mesogastrium

- left leaflet, 6th week of IUL

⑰ Clinical - (i) Splenomegaly - projects towards

(ii) Splenectomy → tail of pancreas

Rt. iliac fossa

(iii) Splenic puncture - ~~6th~~ 8th or 9th I/c space

(iv) Intrasplenic pressure = Portal pressure

⑨ Visceral surface

- (a) Diaphragmatic surface - related to diaphragm
- (b) visceral surface - fundus, ant. surface of lt. kidney, splenic flexure of colon, tail of pancreas.

⑩ Arterial supply - splenic artery forms

- ↳ straight vessels called - penicilli, ellipsoids, arterial capillaries
- It has superior and inf. vascular segments separated by avascular plane.

⑪ Venous drainage - splenic vein

⑫ Lymphatics - No lymphatics,

⑬ Nerve supply - Sym., vasomotor = coeliac plexus

- ⑭ Functions - (i) Phagocytosis (ii) Haemopoiesis
(iii) Immune response (iv) storage of RBCs

⑮ Histology - 4 components (i) Supporting tissue

- (ii) white pulp containing Malpighian corpuscle
- (iii) Red pulp (iv) vascular system

⑯ Development - from cephalic part of dorsal mesogastrium

- left leaflet, 6th week of IUL

⑰ Clinical - (i) Splenomegaly - projects towards Rt. iliac fossa

- (ii) Splenectomy → tail of pancreas
- (iii) Splenic puncture - ~~6th~~ 8th or 9th I/c space
- (iv) Intrasplenic pressure = Portal pressure