Head and Neck mcqs

- 1) Regarding the superior orbital fissure, which is INCORRECT?
 - a) its common tendinous ring binds the SOF content of nerves and muscles to the contents of the optic canal
 - b) the origin of levator palpebrae superioris is its bony upper margin
 - c) lacrimal, frontal and trochlear nerves pass through it
 - d) the oculomotor, abducens and nasociliary nerves lie within the cone of the extraocular muscles
- 2) Regarding the extraocular muscles:
 - a) they all arise from a common tendinous ring around the superior orbital fissure
 - b) the rectus muscles all pass laterally to their point of insertion because of the angle of the orbital apex within the skull
 - c) the superior oblique muscle passes through the trochlear, a fibrocartilage loop attached to the frontal bone lateral margin, just behind the orbital margin
 - d) except for superior oblique, all nerve supply to muscles enter from their optic side
- 3) With regards to eye movement, which is INCORRECT?
 - a) the medial and lateral rectus evoke simple horizontal movement only
 - b) the inferior oblique turns the eye down and out
 - c) the superior rectus turns the eye up and in
 - d) the inferior rectors and superior oblique together produce vertical down gaze
- 4) Which is INCORRECT?
 - a) in a 4th cranial nerve paralysis, the affected eye lies slightly inturned
 - b) in a 6th cranial nerve palsy, the lateral rectus is affected
 - c) in a 3rd nerve palsy, levator palpebrae is affected
 - d) in an oculomotor nerve palsy the eye looks down and out
- 5) With regards to the retina, which is CORRECT?
 - a) the retina covers the inner surface of the choroids and is light sensitive everywhere except at the corneal area
 - b) the optic disc contains retina that is completely free of blood vessels and is yellowish in colour
 - c) the optic disc and fovea are of similar size
 - d) the fovea contains no blood vessels or cones, but a high concentration or rods
- 6) The nasal septum consists of:
 - a) the maxilla
 - b) the vomer and ethmoid bones
 - c) the sphenoid and ethmoid bones
 - d) the frontal, zygoma and maxilla
 - e) the vomer and palatine bones

- 7) The ophthalmic artery:
 - a) is a branch of the ECA
 - b) enters through the superior orbital fissure
 - c) does not penetrate the meninges of the optic nerve
 - d) forms an anastomoses between ECA and ICA
 - e) is an end artery
- 8) Regarding the carotid sheath:
 - a) arisa cervicalis lies behind the IJV
 - b) is free to move in the neck
 - c) contains the vagus and phrenic ????
 - d) the sympathetic trunk lies outside the sheath
 - e) the CCA lies lateral to the IJV
- 9) The contents of the jugular foramen include:
 - a) superior petrosal sinus
 - b) internal jugular vein
 - c) vagus nerve
 - d) hypoglossal nerve
 - e) all of the above
- 10) The sensory innervation of the auricle of the ear includes:
 - a) auricolotermporal nerve (V₃)
 - b) great auricular nerve (C₂)
 - c) facial nerve via tympanic plexus (VII)
 - d) auricular branch of vagus (X)
 - e) all of the above
- 11) Regarding the abducent nerve (CN V_1):
 - a) the nucleus lies in the medulla
 - b) supplies superior oblique muscle
 - c) enters the orbit ???? superior orbital fissure
 - d) has no relation to the cavernous sinus
 - e) carries autonomic fibres from Edinger-Westphal node
- 12) Regarding the face, which is INCORRECT?
 - a) there is no deep fascia on the face
 - b) the bulk of orbicularis oris muscle comes from buccinator
 - c) the eyelid muscles are completely supplied by CNVII
 - d) the parotid duct pierces buccinator opposite the third upper molar tooth
 - e) the facial nerve supplies the occipital belly of occipitofrontalis
- 13) Regarding the trigeminal nerve:
 - a) branches emerge from the parotid gland
 - b) the mandibular nerve has three cutaneous branches
 - c) the supratrochlear nerve supplies midline forehead and scalp
 - d) the infratrochlear nerve is a branch of the maxillary nerve
 - e) the bridge of the nose is supplied by the external nasal nerve

- 14) Which structure does NOT pass through the parotid gland?
 - a) retromandibular vein
 - b) temporozygomatic branch of facial nerve
 - c) cervicofacial branch of facial nerve
 - d) internal jugular vein
 - e) external carotid artery
- 15) Which structure is NOT in the carotid sheath?
 - a) internal jugular vein
 - b) hypoglossal nerve
 - c) glossopharyngeal nerve
 - d) external jugular vein
 - e) internal carotid artery
- 16) Which is an intrinsic muscle of the tongue?
 - a) superior longitudinal muscle
 - b) genioglossus muscle
 - c) hyoglossus muscle
 - d) styloglossus muscle
 - e) palatoglossus muscle
- 17) Which muscle abducts the vocal cords?
 - a) cricothyroid
 - b) oblique arytenoid
 - c) posterior cricoarytenoid
 - d) lateral cricoarytenoid
 - e) thyroepiglottic
- 18) Which laryngeal muscle is NOT supplied by the recurrent laryngeal nerve?
 - a) thyroarytenoid
 - b) cricothyroid
 - c) aryepiglottic
 - d) oblique arytenoid
 - e) posterior cricoarytenoid
- 19) The internal laryngeal nerve supplies:
 - a) sensation to the vocal folds
 - b) cricothyroid muscle
 - c) sensation above the vocal folds
 - d) transverse arytenoid muscle
 - e) sensation below the vocal folds
- 20) Which nerve does NOT supply skin to the upper eyelid?
 - a) lacrimal
 - b) supraorbital
 - c) supratrochlear
 - d) infratrochlear
 - e) infraorbital

21)	Which extraocular muscle does NOT arise from the tendinous ring of the orbit? a) superior rectus b) superior oblique c) inferior rectus d) medial rectus e) lateral rectus
22)	Which structure passes through the tendinous ring of the orbit? a) ophthalmic artery

- b) inferior rectus muscle
- c) lacrimal nerve
- d) trochlear nerve
- e) superior oblique muscle
- 23) Which bone is not part of the medial wall of the orbit?
 - a) maxilla
 - b) lacrimal bone
 - c) sphenoid
 - d) palatine bone
 - e) ethmoid
- 24) Which muscle helps to open the jaw?
 - a) medial pterygoid
 - b) lateral pterygoid
 - c) masseter
 - d) temporalis
 - e) buccinator
- 25) Regarding the vertebral column:
 - a) ligamentum flava attach adjacent pedicles
 - b) lumbar vertebrae have foramen in their transverse process
 - c) the intervertebral disc is a primary cartilaginous joint
 - d) rotation is greatest in the thoracic region
 - e) the cruciform ligament holds the dens in place
- 26) The middle meningeal artery is a branch of the:
 - a) internal carotid artery
 - b) middle cerebral artery
 - c) maxillary artery
 - d) deep temporal artery
 - e) facial artery
- 27) They hyoid bone is at what level?
 - a) C2 vertebra
 - b) C3 vertebra
 - c) C4 vertebra
 - d) C5 vertebra
 - e) C6 vertebra

Section 1 Head and Neck – Answers

1	Α
2	D
2 3 4	В
4	Α
5	C
	B A C B
6 7	D
8	D D C
8 9	C
10	Ε
11	C
12	C
13	E C C B
14	D
15	D A C B C
16 17	Α
17	C
18	В
19	C
20	Ε
21	R
22	Α
23	D
24	A D B
25	Ε
26	E C
27	В

Face, Blood Supply, Nerves etc

- 1) The parotid gland:
 - a) is the largest of the major salivary glands
 - b) is a mainly mucons gland
 - c) is a well organised, regular gland, clearly divided into lobes
 - d) drains into the parotid duct on its posteromedial surface
 - e) extends from the zygomatic arch to the lower level of the earlobe
- 2) Cutaneous sensation to the upper lip is supplied by the:
 - a) zygomaticofacial nerve
 - b) buccal nerve
 - c) infraorbital nerve
 - d) mental nerve
 - e) external nasal nerve
- 3) Skin over the upper lateral eyelid is supplied by the:
 - a) lacrimal nerve
 - b) supraorbital nerve
 - c) supratrochlear nerve
 - d) zygomaticofacial nerve
 - e) zygomaticotemporal nerve
- 4) The facial nerve:
 - a) marginal mandibular branch supplies muscles of the upper and lower lips
 - b) emerges through the stylomastoid foramen
 - c) has four main branches that exit the parotid gland
 - d) supplies the anterior belly of digastric
 - e) divides into temporofacial and cervicofacial divisions just after it enters the parotid gland
- 5) The facial artery:
 - a) is a branch of the internal carotid artery
 - b) crosses the angle of the jaw at the posterior border of masseter muscle
 - c) courses along inferior margin of parotid duct
 - d) lies in front of the facial vein
 - e) none of the above

Face, Blood Supply, Nerves etc – Answers

1	Α
2	C
3	Α
4	В
5	D

D

Head / Neck / CNS

- 1) The cervical sympathetic trunk:
 - a) lies anterior to scalenus anterior
 - b) is enclosed in the carotid sheath
 - c) is lateral to the vertebral artery
 - d) each ganglion gives off a cardiac branch
 - e) disruption causes meiosis, ptosis and increased sweating
- 2) The oculomotor nerve:
 - a) does not enter the cavernous sinus
 - b) supplies the ciliary muscle
 - c) emerges from the pons
 - d) contains sympathetic fibres from the Edinger-Westphal nucleus
 - e) does not pass through the tendinous ring
- 3) The chorda tympani carries:
 - a) taste fibres for the posterior third of the tongue
 - b) ordinary sensation for the anterior two thirds of the tongue
 - c) taste fibres for the anterior two thirds of the tongue
 - d) cervical sympathetic fibres
 - e) motor fibres to the muscles of mastication
- 4) Which is NOT a branch of the facial nerve?
 - a) nerve to stapedius
 - b) chorda tympani
 - c) nerve to levator angili oris
 - d) greater superficial petrosal nerve
 - e) auriculotemporal nerve
- 5) Regarding lymph drainage of head and neck, which is INCORRECT?
 - a) superficial cervical nodes lie along the external jugular veins
 - b) submandibular nodes are lateral to submental nodes
 - c) the left jugular lymph trunk usually drains into the thoracic duct
 - d) the jugulodigastric nodes lie on/near the tendon of omohyoid
 - e) preauricular nodes are outside and within the capsule of the parotid gland
- 6) The middle meningeal artery is a branch of the:
 - a) middle cerebral artery
 - b) anterior cerebral artery
 - c) internal carotid artery
 - d) maxillary artery
 - e) superficial temporal artery

- 7) Which is NOT a content of the posterior triangle of the neck?
 - a) subclavian artery
 - b) lymph nodes
 - c) transverse cervical vein
 - d) omohyoid muscle
 - e) sternocleidomastoid muscle
- 8) Which laryngeal muscle abducts the vocal cords?
 - a) posterior cricoarytenoid
 - b) cricothyroid
 - c) transverse arytenoid
 - d) vocalis
 - e) thyroarytenoid

Head and Neck - Answers

1 D

2 В

3 C

4 Ε

5 D

D

6 7

Ε 8 Α

Head and Neck Anatomy

- 1) Regarding the bones of the skull:
 - a) the middle cranial fossa does not extend to the posterior cranial vault
 - b) the temporal lobe rests on the bony rather than the membranous part of the middle cranial fossa
 - c) the posterior cranial fossa contains the cerebella and lies superior to the tentorium cerebelli
 - d) the floor of the anterior cranial fossa is formed from the orbital plate of the parietal bone
 - e) the cribriform plate lies in the midline and is formed from the roof of the sphenoid bone
- 2) Regarding the bones of the skull:
 - a) the anterior clinoid processes are formed by the lesser wings of the sphenoid
 - b) the posterior clinoid processes are formed from the occipital bone
 - c) the dorsum sellae is formed from the anterior part of the occipital bone
 - d) the petious temporal bone forms the floor of the middle cranial fossa, but not the wall of the posterior cranial fossa
 - e) the inferior orbital fissure separates the lesser and greater wings of the sphenoid
- 3) Regarding the cervical spine:
 - a) all seven cervical vertebrae have spinous processes
 - b) rotatory movements of the head occur mostly at the atlanto-occipital joints
 - c) the odontoid process (peg) is encased by a bony canal in the axis
 - d) all seven cervical vertebrae have foramina transversaria for the vertebral artery to pass through it
 - e) spinous processes, where present, are all bifid except for C7
- 4) Regarding the triangles of the neck:
 - a) the posterior triangle is bound by trapezius, sternocleidomastoid and the middle quarter of clavicle
 - b) the anterior triangle is further divided into two smaller triangles, the carotid and submandibular triangles
 - c) the posterior belly of digastric (and stylohyoid) separates the carotid and submandibular triangles
 - d) the accessory nerve (CNXI) divides the posterior triangle into approximately two halves, and of these the lower contains little of importance
 - e) the investing fascia splits to enclose the sternomastoid and trapezius, but the parotia and submandibular glands lie deep to the fascia, in the anterior triangle
- 5) Regarding anatomy of the neck, landmarks:
 - a) the arch of the cricoid cartilage is palpable as it protrudes forward of the trachea
 - b) the cricoid cartilage marks the level of C5
 - c) the transverse process of the axis is the most prominent of the cervical transverse processes, and is palpable between angle of mandible and mastoid
 - d) the body of hyoid is not palpable because it is hidden behind the thyroid cartilage
 - e) the coracoid process of scapula is palpable within the deltopectoral triangle

- 6) Regarding fascia and sheaths in the neck:
 - a) the pretracheal fascia contains both trachea and oesophagus, and also splits to envelop the lobes of the thyroid gland
 - b) the prevertebral fascia encloses vertebrae and muscles acting on the vertebrae, but does not contribute to the investment over the brachial plexus as it passes between scalene muscles
 - c) the investing fascia encloses trapezius sternomastoid and platysma muscles
 - d) the structures contained within the carotid sheath include carotid artery, sympathetic chain and jugular vein, but not phrenic nerve or vagus
 - e) infection may track in the pretracheal space to mediastinum
- 7) For sternocleidomastoid, which is TRUE?
 - a) contraction of one muscle rotates the head to the ipsilateral shoulder
 - b) it is crossed superficially by the external jugular vein
 - c) it is supplied by the transverse cervical nerve
 - d) its clavicular fibres mainly insert into the superior nucal line
 - e) it is superficial to the deep cervical fascia
- 8) Which is not considered a content of the posterior triangle of the neck?
 - a) subclavian artery
 - b) trunks of the brachial plexus
 - c) internal jugular vein
 - d) branches of the cervical plexus
 - e) accessory nerve
- 9) For the thyroid, which is TRUE?
 - a) the thyroid isthmus crosses the thyroid cartilage
 - b) the superior thyroid arteries are branches off the internal carotid arteries
 - c) the posterior surface lies on the carotid sheaths
 - d) the inferior thyroid arteries are branches off the external carotid arteries
 - e) the recurrent laryngeal nerves pass anteriorly to each lateral lobe
- 10) For the great neck vessels, which is TRUE?
 - a) the carotid sheath contains the ansor cervicalis, vagus and recurrent laryngeal nerves
 - b) the external carotid artery has three branches
 - c) the internal carotid artery has six branches
 - d) the internal jugular vein lies lateral to the carotid artery throughout its course
 - e) the carotid sinus lies at the commencement of the common carotid artery

Head and Neck Anatomy – Answers

- 1 B 2 A 3 E 4 C 5 A
- 5 A A
- 7 B
- 8 C
- 9 C
- 10 D

- 1. The blood supply of Little's area (anteroinferior part of the septum) is best described by
- a. Anterior and posterior ethmoidal arteries from the ophthalmic artery
- b. The sphenopalatine branch of the maxillary artery
- c. Sphenopalatine artery and septal branch of the superior labial branch of the facial artery
- d. All of the above
- e. None of the above
- 2. the septum of the nasal cavity is innervated by
- a. nasopalatine nerve from cranial nerve V2
- b. posterior ethmoidal nerve from V1
- c. greater palatine nerve from V2
- d. lesser palatine nerve from V2
- e. none of the above
- 3. The posterior cricoarytenoid muscles
- a. Abduct the vocal cords
- b. Adduct the vocal cords
- c. Tensor of the vocal cords
- d. Relaxors of the vocal cords
- e. Act as a sphincter
- 4. The superior laryngeal nerve
- a. Divides into internal and recurrent laryngeal nerves
- b. Supplies the crocothyroid muscle via an external laryngeal branch
- c. Supplies all the intrinsic muscles of the larynx
- d. Is sensory to larynx below the vocal cords
- e. None of the above
- 5. The surface markings of the trachea include
- a. Origin at lower end of the cricoid at C4 vertebra
- b. Origin at C6 vertebra level
- c. Termination at T2 at expiration
- d. Termination at T4 level at maximal inspiration
- e. 3rd to 5th rings covered anteriorly by isthmus of the thyroid
- 6. What runs through the foramen spinosum?
- a. Internal carotid artery
- b. Maxillary branch of the trigeminal nerve
- c. Mandibular branch of the trigeminal nerve
- d. Middle meningeal artery
- e. Meningeal nerve
- 7. The internal jugular vein
- a. Drains into the subclavian vein on the left
- b. Lies in the carotid sheath with the carotid artery and the sympathetic trunk
- c. Lies lateral to the internal carotid artery at the base of the skull
- d. Lies lateral to the carotid artery in the lower neck
- e. Lies anterior to the sternocleidomastoid

- 8. The seventh cervical vertebra
- a. Is typical
- b. Has a bifid spinous process
- c. Transmits the vertebral artery through the foramen in the transverse process
- d. Has the supra-pleural membrane attached to the anterior tubercle
- e. Has a short spinous process
- 9. The atlas
- a. Has no foramen in the transverse process
- b. Is the narrowest cervical vertebra
- c. Has a body
- d. Has a posterior arch grooved by the vertebral artery
- e. Has a short spinous process
- 10. Branches of the carotid artery include
- a. Inferior thyroid artery
- b. Ascending pharyngeal artery
- c. Internal thoracic
- d. Superficial cervical
- e. Thymic artery
- 11. The blood supply to the nasal cavity
- a. Is only from the external carotid
- b. Mainly enters through the nostril
- c. Does not communicate with intracranial vessels
- d. Mainly enters the sphenopalatine foramen
- e. Arrives to Little's area from ophthalmic artery branches
- 12. Protection of the airway during swallowing is not facilitated by
- a. The sphincteric action of the ariepiglottic muscles
- b. closure of the glottis
- c. Elevation of the larynx
- d. Contraction of the cricothyroid muscle
- e. Posterior bulging of the tongue assisting closure of the larynx
- 13. Structure of the larynx includes
- a. The inlet being bounded posteriorly by the epiglottis
- b. The posterior cricoarytenoid being an adductor of the vocal cords
- c. The aryepiglottic fold contains the cuneiform cartilage
- d. The rima of the vestibule being the fissure between the two vocal cords
- e. The cricoid cartilage not being circumferential
- 14. The trachea
- a. Commences below the cricoid at the level of C5
- b. Enters the thoracic inlet slightly to the left
- c. Is marked at its lower end by the level of the sternal angle
- d. Is supplied by the glossopharyngeal nerve
- e. Drains to axillary lymph nodes

- 15. All of the following are branches of the external carotid artery EXCEPT:
- a. Superior thyroid artery
- b. Hypoglossal artery
- c. Facial artery
- d. Lingual artery
- e. Ascending pharyngeal artery
- 16. Regarding triangles of the neck all of the following structures are boundaries of the triangle named EXCEPT:
- a. Submental triangle, mandible
- b. Anterior triangle, mandible
- c. Digastric triangle, mandible
- d. Carotid triangle, sternocleidomastoid
- e. Anterior triangle, sternocleidomastoid
- 17. All of the following are contents of the posterior triangle of the neck EXCEPT:
- a. Occipital lymph nodes
- b. Accessory nerve
- c. Cervical plexus
- d. Inferior belly of omohyoid
- e. Transverse cervical vessels
- 18. Which one of the following opens into the inferior meatus of the nose
- a. Frontal sinus
- b. Ethmoidal sinus
- c. Maxillary sinus
- d. Nasolacrimal duct
- e. Auditory tube
- 19. A freacture through the roof of the maxillary sinus might result in sensory loss to the
- a. Tympanic membrane
- b. Lacrimal gland
- c. Upper molar teeth
- d. Skin overlying the zygomatic bone
- e. Upper incisors and canine teeth
- 20. All of the following structures pass through the jugular foramen EXCEPT:
- a. Jugular vein
- b. Glossopharyngeal nerve
- c. Hypoglossal nerve
- d. Accessory nerve
- e. Vagus nerve
- 21. Regarding the basilar artery, all the below are true EXCEPT:
- a. Gives off branches to the anterior spinal artery
- b. Divides to give off both posterior cerebral arteries
- c. Supplies branches to the pons
- d. Formed by the union of the vertebral arteries
- e. Lies on the ventral aspect of the cerebral peduncle

22. In the circle of Willis

- a. The basilar artery divides into right and left posterior cerebellar arteries
- b. The middle cerebral arteries branch off and supply the motor but not sensory cortex
- c. The anterior communicating artery unites the middle cerebral artery to the internal cerebral artery
- d. It encircles the inferior brainstem at C2-3 level
- e. The internal carotid artery gives off the ophthalmic artery before dividing into anterior and middle cerebral arteries
- 23. Regarding the facial vein, all of the following are true EXCEPT:
- a. It drains into the internal jugular vein
- b. It has no valves
- c. It communicates with the cavernous sinus via the ophthalmic vein
- d. It runs inferoposteriorly anterior to the facial artery
- e. It communicates with the pterygoid plexus via the deep facial vein
- 24. The 2nd cervical vertebra
- a. Has a very small spinous process
- b. Articulates with the occiput
- c. Has a bifid spinous process
- d. It referred to as the atlas
- e. Has a dens that occupies the posterior 1/3 of the canal
- 25. Regarding the larynx
- a. All muscles are supplied by the recurrent laryngeal nerve
- b. Thyroarytenoid muscle alters the tension of the vocal cord
- c. Recurrent laryngeal nerve passes anterior to the criocthyroid joint
- d. During swallowing, the epiglottis acts as a passive flap
- e. All of the larynx is covered by pseudostratified columnar epithelium
- 26. Regarding the vertebral column all are correct EXCEPT:
- a. The facet joints in the lumbar spine lie in an anteroposterior plane
- b. The vertebral arteries ascend through the foramen in the transverse processes of the upper six cervical vertebrae
- c. The spinous processes of the cervical vertebrae are usually bifid
- d. Thoracic vertebrae I, II and XII have single costal facets on their pedicles
- e. The sacrum has 5 sets of anterior and posterior sacral foramina, one corresponding to each of the sacral segments
- 27. The internal jugular vein
- a. Is surrounded by the thickest portion of carotid sheath
- b. Receives drainage from all the parathyroid glands
- c. Is crossed posteriorly by the accessory nerve
- d. Is crossed anteriorly by the thoracic duct
- e. Contains valves within its lumen

- 28. Venous drainage of the face
- a. Is both deep and superficial
- b. Empties ultimately into the internal jugular vein alone
- c. Communicates indirectly with the cavernous sinus via the deep facial vein
- d. Communicates directly with the cavernous sinus via the supraorbital veins
- e. All of the above

29. The larynx

- a. Is a respiratory organ whose essential function is phonation
- b. Extends from the anterior upper border of the epiglottis to the level of C6
- c. Consists of two single cartilages, the thyroid and cricoid
- d. Is hauled up beneath the tongue with the epiglottis tilted anterior and upwards during swallowing
- e. Is supplied by the external laryngeal nerve except for the cricothyroid muscle which is supplied by the recurrent laryngeal nerve

30. Regarding the larynx

- a. The external laryngeal nerve supplies the posterior cricoarytenoid muscle
- b. The internal laryngeal nerve supplies cricothyroid
- c. The blood supply above the vocal cords is by a branch of the internal carotid
- d. Normal vocal cords are always covered by stratified squamous epithelium
- e. The recurrent laryngeal nerve lies immediately behind the cricoarytenoid joint

31. In the skull

- a. The anterior fontanelle usually closes by 2 months
- b. The pterion overlies the middle meningeal artery
- c. The round foramen transmits the mandibular branch of the fifth cranial nerve
- d. The cribriform plate is part of the sphenoid bone
- e. All of the above are correct
- 32. The orbit contains all of the following EXCEPT:
- a. Branches of the facial nerve
- b. The optic nerve
- c. The third cranial nerve
- d. A subarachnoid space
- e. The inferior rectus muscle
- 33. Which is true of the trachea?
- a. Begins at the level of C7
- b. Isthmus of the thyroid lies anterior to the 2nd, 3rd and 4th rings
- c. Has 15-20 complete cartilaginous rings
- d. Receives its blood supply from the inferior thyroid artery alone
- e. Pulmonary artery bifurcates anterior to its lower end
- 34. Which does not travel through the jugular foramen?
- a. Hypoglossal nerve
- b. Accessory nerve
- c. Inferior petrosal sinus
- d. Glossopharyngeal nerve
- e. Vagus nerve

- 35. Regarding veins in the skull a. Do not follow arteries b. Lie subdurally
- c. Great cerebral vein drains into cavernous sinus
- d. ?
- e. ?
- 36. The submandibular ganglion receives fibres from
- a. Superior salivatory nucleus
- b. ?
- c. ?
- d. ?
- e. ?
- 37. Which muscle controls vocal cord abduction in the larynx
- a. Aryepiglottic
- b. Posterior cricoarytenoid
- c. Transverse arytenoids
- d. Lateral cricoarytenoid
- e. Cricothyroid
- 38. Lumbar vertebrae are distinguishable from thoracic because:
- a. They have transverse foramina
- b. The bodies are concave from above down
- c. Their bodies are kidney shaped and flatter posteriorly
- d. They have costal facets
- e. Their spinous processes project inferiorly with the tip lying at the body two vertebrae inferiorly
- 39. Contents of the digastric triangle include all of the following EXCEPT:
- a. Facial artery
- b. Submandibular lymph nodes
- c. Hypoglossal nerve
- d. Glossopharyngeal nerve
- e. Nerve to mylohyoid
- 40. The internal carotid artery
- a. Is medial to the external carotid artery at its origin
- b. Gives rise to the superior thyroid artery
- c. Lies outside the carotid sheath
- d. Passes through the carotid canal in the base of the skull
- e. Lies in the anterior part of the cavernous sinus
- 41. The C7 cervical vertebra is atypical in that
- a. It has bifid spinous process
- b. The foramen in the transverse process does not transmit the vertebral artery
- c. The anterior tubercle is large
- d. It has kidney shaped facets
- e. The posterior tubercle gives origin to scalenus anterior

- 42. Regarding the mandible:
- a. The coronoid process is the attachment of temporalis and is posterior to the head of the mandible
- b. It is a U-shaped bone without a symphysis
- c. The facial artery can be palpated crossing the lower border just posterior to masseter
- d. It has a mandibular foramen on its lateral surface
- e. Buccinator is attached to the external oblique line
- 43. The thyroid gland
- a. Is penetrated by the recurrent laryngeal nerve
- b. Is supplied by the middle thyroid artery
- c. Has its isthmus adherent to the 3rd, 4th and 5th tracheal rings
- d. Originates from the caudal end of the thyroglossal duct
- e. Is contained within the prevertebral fascia
- 44. Which of the following combinations is correct regarding the paranasal sinuses and where they drain to?
- a. Maxillary sinus; middle meatus
- b. Anterior ethmoidal air cells; inferior meatus
- c. Posterior ethmoidal air cells; oral cavity
- d. Sphenoid sinus; frontonasal recess
- e. Frontal sinus; lacrimal duct
- 45. The inferior oblique
- a. Arises from the maxilla on the floor of the orbit, near the anterior margin
- b. Is attached to the posterosuperior medial quadrant of the sclera
- c. Is supplied by the abducent nerve (CN VI)
- d. Turns the eye upwards and in
- e. Is supplied by the posterior ciliary artery
- 46. The most important mechanism for airway protection is
- a. Depression of larynx
- b. Adduction of vestibular folds
- c. Elevation of larynx
- d. Movement of epiglottis
- e. Abduction of vocal cords
- 47. The recurrent laryngeal nerve
- a. Lies in front of the pretracheal fascia
- b. Approaches the thyroid gland from above
- c. Runs in the groove between the trachea and oesophagus
- d. Passes behind the cricothyroid joint
- e. Contains only sensory fibres
- 48. Larynx
- a. Continues with the trachea at C6
- b. Its major role is for phonation
- c. Lies behind the thyroid gland
- d. All the muscles are supplied by the receurrent laryngeal nerve
- e. Blood supply is from the inferior thyroid artery

- 49. Which muscle abducts the vocal cords?
- a. Transverse arytenoids
- b. Cricothyroid
- c. Lateral cricoarytenoid
- d. Posterior cricoarytenoid
- e. Thyoarytenoid
- 50. The cricoid cartilage
- a. Articulates with the thyroid cartilage via fibrocartilage joints
- b. Is an incomplete cartilaginous ring
- c. Projects anteriorly as a quadrangular flat part
- d. Provides attachment for anterior cricoarytenoid muscle
- e. Articulates superiorly with the inferior horn of the thyroid cartilage
- 51. The carotid triangle contains
- a. Subclavia artery
- b. Omohyoid muscle
- c. Occipital artery
- d. Internal laryngeal nerve
- e. Anterior jugular vein
- 52. The cervical sympathetic trunk
- a. Descends from the upper posterior triangle to the first rib
- b. Runs lateral to the vertebral artery
- c. Lies behind the carotid sheath
- d. Lies behind the prevertebral fascia
- e. Ends at the inferior cervical ganglion
- 53. The carotid sheath
- a. Extends from the base of the skull to the bifurcation of common carotid
- b. Contains the stylohyoid ligament
- c. Contains only three cranial nerves
- d. Is attached to the aorta
- e. Contains the sympathetic trunk
- 54. Regarding the vertebrae
- a. Spinal nerves emerge through foramina between the vertebral laminae
- b. The anterior longitudinal ligament extends from the anterior tubercle of the atlas to the upper part of the lumbar spine
- c. Articular processes are joined to adjacent vertebrae by synovial joints
- d. The ligamentum flavum joins borders of adjacent spinous processes
- e. A typical thoracic vertebra has foramina in the transverse processes
- 55. When performing a lumbar puncture the spinal needle should not pass through the
- a. Ligamentum flavum
- b. Posterior longitudinal ligament
- c. Supraspinous ligament
- d. Inerspinous ligament
- e. Skin

- 56. All the following are branches of the external carotid artery EXCEPT:
- a. Lingual artery
- b. Facial artery
- c. Ascending pharyngeal artery
- d. Hypoglossal artery
- e. Superior thyroid artery
- 57. The alar ligaments connect the
- a. Bodies of the axis to foramen magnum
- b. Dens to foramen magnum
- c. Adjacent vertebral bodies posteriorly
- d. Tips of adjacent spinous processes
- e. Adjacent laminae
- 58. All the following are boundaries of the named triangle except:
- a. Mandible and submental triangle
- b. Mandible and anterior triangle
- c. Mandible and digastric triangle
- d. Sternocleidomastoid and carotid triangle
- e. Sternocleidomastoid and anterior triangle
- 59. All the following are contents of the posterior triangle EXCEPT:
- a. Accessory nerve
- b. Cervical plexus
- c. Inferior belly of omohyoid
- d. Transverse cervical vessels
- e. Occipital lymph nodes
- 60. Which of the following enters into the inferior meatus of the nose?
- a. Frontal sinus
- b. Ethmoidal sinus
- c. Maxillary sinus
- d. Nasolacrimal duct
- e. Auditory tube
- 61. A fracture through the roof of the maxillary sinus might result in sensory loss to the
- a. Tympanicmembrane
- b. Lacrimal gland
- c. Upper molar teeth
- d. Upper incisors and canine teeth
- e. Skin overlying the zygomatic bone
- 62. All the following structures pass through the jugular foramen EXCEPT:
- a. Jugular vein
- b. Glossopharyngeal nerve
- c. Hypoglossal nerve
- d. Accessory nerve
- e. Vagus nerve

63. Which is true of swallowing? a. It is entirely voluntary b. The oropharyngeal portion is voluntary c. Peristalsis speeds as the bolus descends d. The voluntary stage commences as food enters the oesophagus e. It is initially voluntary then involuntary 64. Which muscle controls vocal cord abduction? a. Aryepiglottic b. Transverse arytenoids c. Lateral cricoarytenoid d. Posterior cricoarytenoid e. Cricothyroid 65. What exits the stylomastoid foramen? a. Middle meningeal artery b. Accessory nerve c. Facial nerve d. Artery to stapedius e. Hypoglossal nerve 66. Which vessel supplies a branch which passes through the foramen spinosum? a. ? b. ? c. maxillary artery d. ? e. ? 67. submandibular ganglion a. ?

b. ? c. ? d. ? e. ?

1. c?
2. a
3. a
4. b
5. b
6. d
8. d
9. d
10. b
11. d
12. d
13. d
14. c
15. b
16. a
17. ?
18. d
19. e
20. c
21. a
22. e
23. d
24. c
25. b
26. e
27. c
28. c
29. b
30. d
31. ?
32. a
33. ?
34. ?

35. ?	
36. ?	
37. b	
38. ?	
39. ?	
40. ?	
41. ?	
42. ?	
43. ?	
44. a	
45. a	
46. ?	
47. d a	nd ?c
48. a	
49. d	
50. e	
51. d	
52. c	
53. d	
54. c	
55. b	
56. d	
57. b	
58. a	
59. e	
60. d	
61. d	
62. c	
63. e	
64. d	
65. c	
66. c	
67. ?	