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BDS Dental College, Medical & Research Center

Dr. K. K. Kulkarni, M.D., D.D.S., D.M.D., D.Sc., F.R.C.S.D., F.R.C.S.E., F.R.C.S. (Ed.)

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(Printed Pages 4)

(20315)

Roll No.

BDS - I Prof.

5135(N)

B.D.S. Supply & Main Examination,

March 2015

Human Anatomy, Embryology, Histology & Medical Genetics

BDS-01(N)

Time : Three Hours / [Maximum Marks : 70]

Note: (1) Attempt all questions.

(2) From parts A and B on separate sheets.

(3) Draw diagrams wherever necessary.

Part - A

1. Describe the muscles of mastication under the following headings : attachments, nerve supply and actions. 8

2. Describe the attachments, nerve supply, actions and applied anatomy of sternocleidomastoid muscle. 8

3. Write short notes on : 3 x 3 = 9

(a) medial wall of middle ear

(b) Submandibular ganglion

P.T.O.

~~(c)~~ Nasolacrimal duct,

(d) Middle ethmoidal sinus

(iii) Which of the following is seen in the posterior wall of middle ear?

(a) Pyramid

(b) Promontory

(c) Fenestra vestibuli

(d) Canal for auditory tube

(iv) Secretomotor fibers to lacrimal gland travel along which of the following nerves ?

(a) Lesser petrosal

(b) ~~Chorda tympani~~

~~(c)~~ greater petrosal

(d) Oculomotor

(v) All of the following nerves are related to the mandible except :

(a) Inferior alveolar

(b) lingual

~~(c)~~ facial

(d) auriculotemporal

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(c) Microanatomy of palatine tonsil

4. Write the correct answers of following multiple choice questions : $2 \times 5 = 10$

(i) The nerve of the third branchial arch is:

(a) Facial (b) Mandibular

(c) Vagus (d) glossopharyngeal

(ii) Hypoglossal nerve supplies all of the following except :

(a) Hyoglossus (b) Palatoglossus

(c) Genioglossus

(d) Styloglossus

(iii) All of the following are branches of external carotid artery except :

(a) Maxillary (b) Facial

(c) Vertebral (d) Occipital

(iv) Foramen ovale transmits :

(a) Middle meningeal artery

(b) internal carotid artery

(c) accessory meningeal artery

(d) Vertebral artery

(v) All of the following pass through superior orbital fissure except :

(a) Oculomotor nerve

(b) trochlear nerve

(c) abducent nerve

(d) Optic nerve

Part - B

5. Describe the muscles of larynx under the following headings attachments, actions and nerve supply. 8

6. Describe the features and openings in lateral wall of nose. 8

7. Write short notes on : $3 \times 3 = 9$

(a) Development of tongue

(b) Microanatomy of parotid gland

(c) Visual pathway

8. Write the correct answers of following multiple choice questions : $2 \times 5 = 10$

(i) The cranial nerve which has a dorsal emergence ~~from~~ brain stem is :

(a) Trochlear (b) Oculomotor

(c) Abducent (d) Facial

(ii) All of the following open in the middle meatus of nose except :

(a) Maxillary sinus

(b) Frontal sinus

- (c) Nasolacrimal duct
- (d) Middle ethmoidal sinus

(iii) Which of the following is seen in the posterior wall of middle ear?

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 (b) Submandibular ganglion

5135(N)/30014

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Part - B

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(a) Maxillary sinus

(b) Frontal sinus

(4)

8. Write the correct answer of the following multiple choice questions:

2×5=10

- (i) Gompheosis is a term used for:
- (a) Gingival attachment
 - (b) Degenerative disease of gums
 - (c) Tooth root attachment to alveolar sockets
 - (d) TM-joint.
- (ii) 1st branch of external carotid artery is:
- (a) Ascending pharyngeal artery
 - (b) Superior thyroid artery
 - (c) Lingual artery
 - (d) Posterior auricular artery.
- (iii) Nasolacrimal duct opens in:
- (a) Superior meatus
 - (b) Middle meatus
 - (c) Inferior meatus
 - (d) Highest meatus
- (iv) Anterior 2/3rd of the tongue is supplied by:
- (a) Lingual nerve
 - (b) Chorda tympani nerve
 - (c) Glossopharyngeal nerve
 - (d) All of the above.
- (v) Structure passing through foramen rotundum is:
- (a) Mandibular nerve
 - (b) Ophthalmic nerve
 - (c) Maxillary nerve
 - (d) Trigeminal nerve.

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B.D.S.-I Prof.

5135(N)

B. D. S. Supply. & Main Examination, Oct. 2015

Human Anatomy, Embryology, Histology &

Medical Genetics

[BDS-01(N)]

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt all questions of Part-I and Part-II. Use separate copy for Part-I and Part-II.

Part-I

[Marks :35

1. Describe the temporomandibular joint under the following headings:

8

- (a) Articular surface and ligaments
- (b) Relations of joint
- (c) Movements and muscles producing movement
- (d) Applied Anatomy.

2. Write the origin, insertion, nerve supply and actions of muscles of Soft Palate.

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(2)

3. Write short notes on the following: 3×3=9

- (a) Bell's palsy
- (b) Little's area
- (c) Derivatives of 1st branchial arch.

4. Write the correct answer of the following multiple choice questions: 2×5=10

- (i) Dangerous layer of scalp is:
 - (a) Connective tissue layer
 - (b) Loose areolar layer
 - (c) Epicranial aponeurosis
 - (d) Pericranium.
- (ii) Facial nerve in the middle ear gives following branches except:
 - (a) Chorda tympani nerve
 - (b) Greater petrosal nerve
 - (c) Lesser petrosal nerve
 - (d) Nerve to stapedius muscle.
- (iii) Muscle that abducts the vocal cord is:
 - (a) Transverse arytenoids
 - (b) Lateral cricoarytenoids
 - (c) Posterior cricoarytenoids
 - (d) None of the above.
- (iv) Sternocleidomastoid is supplied by:
 - (a) Spinal accessory nerve
 - (b) C₂ & C₃ nerve
 - (c) Both
 - (d) Cranial accessory nerve

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(3)

(v) Secretomotor nerve for parotid gland is:

- (a) Facial nerve
- (b) Glossopharyngeal nerve
- (c) Vagus nerve
- (d) None of the above.

Part-II [Marks :35]

5. Describe the Parotid gland under the following headings: 8

- (a) Covering and presenting parts
- (b) Relations of parotid gland
- (c) Structures within the gland
- (d) Nerve supply.

6. Describe the glossopharyngeal nerve under the following headings: 8

- (a) Functional components
- (b) Course and relation
- (c) Branches and structures supplied
- (d) Applied anatomy.

7. Write short notes on the following: 3×3=9

- (a) Microanatomy of thyroid gland
- (b) Dangerous area of face
- (c) T. S. of midbrain at level of superior colliculus (diagram only).

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