POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (ORAL & MAXILLOFACIAL SURGERY) – OCTOBER 2016

Date: 6th October 2016

Time: 9.00 a.m. – 12.00 noon

PAPER I

Answer three (03) questions from each part. Answer each question in a separate book.

PART A (GENERAL ANATOMY)

1.1 Describe the course and immediate anatomical relations of the right phrenic nerve (50 marks)

1.2 List the structures supplied by the phrenic nerve (20 marks)

1.3 A patient with an inflamed gall bladder was experiencing pain in the right shoulder area. Explain the anatomical basis of the above observation

(30 marks)

2.

1.

- 2.1 Describe the arrangement of anatomical triangles of the neck with a labeled diagram (40 marks)
- 2.2 List the contents of the posterior triangle of the neck (30 marks)
- 2.3 A patient with a right side lateral neck swelling presented with numbress of the same side of the neck, difficulty in raising the right hand above the level of the shoulder and difficulty in breathing.

Explain the above mentioned observations

(30 marks)

Contd..../2-

3.

4

3.1 Outline the arrangement of lymph nodes in the head and neck region indicating the areas of drainage (60 marks)

3.2 Explain the clinical relevance of the information mentioned in 3.1 (40 marks)

T.		:	
4.1 In respect of the soft palate			
4.1.1 describe the musculature	*		(50 marks)
4.1.2 list the functions	v	:	(20 marks)

4.2 Explain how the structural deformities of the soft palate affect the functions mentioned in 4.1.2 (30 marks)

PART B (DENTAL ANATOMY)

5.	5.1 List ten (10) age changes of the oral mucous membrane	(20 marks)
	5.2 Explain the protective mechanisms of the following against microorganisms	
	5.2.1 Oral mucous membrane	(20 marks)
	5.2.2 Saliva	(15marks)
	5.2.3 Crevicular fluid	(15 marks)
	5.3 Explain the following statements	
	5.3.1 Injection of local anesthetics into the gingiva is difficult	and painful

than that of buccal mucosa (15 marks)

5.3.2 Lining mucosa gapes when incised and may require suturing (15 marks)

•

Contd..../3-

8.

- 6.1 State the mechanisms that help in the postnatal growth of the nasomaxillary complex (20 marks)
- 6.2 Explain how the following dimensions of the nasomaxillary complex are altered by the mechanisms mentioned in 6.1.

6.2.1 Anteroposterior	(20 marks)
6.2.2 Transverse	(20 marks)
6.2.3 Vertical	(20 marks)

- 6.3 List the factors that affect the growth and development of the craniofacial complex (20 marks)
- 7. Regarding the Hertwig's epithelial root sheath

7.1 Outline its formation	(20 marks)
7.2 Describe the histological appearance	(20 marks)
7.3 List the functions	(30 marks)
7.4 State its fate and clinical relevance	(30 marks)

8.1 Outline the steps involved in the development of the major salivary glands (30 marks)

8.2 Describe the microscopic appearance of a	
8.2.1 myoepithelial cell	(30 marks)
8.2.2 mucous cell of a salivary gland	(30 marks)
8.3 State the functions of myoepithelial cells	(10 marks)

POSTGRADUATE INSTITUTE OF MEDICINE UNIVERSITY OF COLOMBO

SELECTION EXAMINATION IN MD (ORAL & MAXILLOFACIAL SURGERY) – OCTOBER 2016

Date : 7th October 2016

,

Time: 9.00 a.m. – 12.00 noon

PAPER II

Answer three (03) questions from each part. Answer each question in a separate book.

PART A (PHYSIOLOGY)

÷

1.	1.1 Discuss the role played by humoral agents in the control of blo circulation	ood (30 marks)
	1.2 Describe the types of shock	(40 marks)
	1.3 Describe the stages of shock and the circulatory compensatory mechanisms	(30 marks)
2	Explain the physiological basis of the following	
	2.1 Level of the lesion in Horner's syndrome is indicted by the dist of anhidrosis	tribution (25 marks)
	2.2Brown tumour in hyperparathyroidism	(25 marks)
	2.3 Ascites	(25 marks)
	2.4 Maintenance of blood pH by plasma proteins	(25 marks)

Contd...../2-

3.		
5.	3.1 Define the term "synapse"	(20 marks)
	3.2 State two (02) modalities of synaptic transmission	(20 marks)
	3.3 State the mechanisms by which drugs antagonize neurotrans	mission (40 marks)
	3.4 List four (04) conditions that may occur due to reduced leve GABA (gamma aminobutyric acid) in the brain	ls of (20 marks)
4.	4.1 Describe the CO_2 transport in blood \checkmark	(40 marks)
	4.2 Draw and label the oxygen-hemoglobin dissociation curve	(20 marks)
•	1.2 State the advantages of the survey mentioned in 1.2 as	

4.3 State the advantages of the curve mentioned in 4.2 as
compared to a linear relationship(40 marks)

PART B (PATHOLOGY)

5.

ι,

5.1	
5.1.1 Define the term "necrosis"	(10 marks)
5.1.2 State the histological changes seen in cells undergoing ne	ecrosis (20 marks)
5.2	
5.2.1 List the main forms of necrosis	(12 marks)
5.2.2 Describe each type of necrosis mentioned in 5.2.1 with appropriate examples	(30 marks)
uppropriate examples	(50 marks)
5.2.3 List the outcome of necrosis	(08 marks)
5.3 Tabulate the similarities and differences between necrosis and	anontosis

5.3 Tabulate the similarities and differences between necrosis and apoptosis (20 marks)

a

Contd..../3-

6.	
6.1 Define "immunity"	(05 marks)
6.2 State different ways of achieving immunity giving examples	(20 marks)
6.3 Describe the structure of different types of immunoglobulin	(35 marks)
6.4 List three (03) undesirable consequences of immunity and exone (01) of them	xplain (25 marks)
6.5 Describe the pathological basis of Di-George Syndrome	(15 marks)
7.	
7.1 List two (02) pathological processes each, causing the change an organ or tissue to	e of colour of
7.1.1 red	(10 marks)
•	()
7.1.2 yellow	(10 marks)
7.1.2 yellow 7.1.3 white	
7.1.3 white	(10 marks) (10 marks)
	(10 marks) (10 marks)
7.1.3 white	(10 marks) (10 marks) 7.1 (70 marks)
 7.1.3 white 7.2 Explain the pathogenesis of the colour changes mentioned in 8. 8.1 List the indications and limitations of the assessment of a pare 	(10 marks) (10 marks) 7.1 (70 marks) otid mass by (40 marks)
 7.1.3 white 7.2 Explain the pathogenesis of the colour changes mentioned in 8. 8.1 List the indications and limitations of the assessment of a pare fine needle aspiration 	(10 marks) (10 marks) 7.1 (70 marks) otid mass by (40 marks)

,

.