

- 10 A patient visits your practice with the complaint of a painful swelling in front of the ear and in the area of the wisdom teeth. You make the diagnosis of viral parotitis (Mumps). Please give the full innervation of the parotid gland, indicating cranial nerve origin and possible routes the nerves might follow. [5½]
 - 11 A patient presents with infection (abscess) at the apex of tooth 36 that is in close relation to the mylohyoid muscle. You are worried about the spread of infection (ludwig's angina) from this area. Please describe the mylohyoid muscle in full. [9]
 - 12 After a severe oral cavity infection, an AIDS patient developed breathing difficulties. A lateral x-ray investigation revealed the presence of a large retropharyngeal mass. List the subdivisions of the pharynx; indicate their position as well as their superior and inferior borders. [6½]
 - 13 A patient visits your practice with the complaint that he is suffering from "Dry Mouth". Please explain the anatomy of the parotid gland in terms of blood supply, lymph drainage and innervation to the patient. Also indicate how and where it drains in the mouth. [11]
 - 14 In the process of applying the inferior alveolar block technique to achieve local anaesthesia, the buccinator muscle might be pierced by the needle. Please describe the buccinator muscle in full. [10]
- [100]



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Paper 2

Physiology

All questions are to be answered in one book

SECTION B

- 1 Define hypoxia and describe in detail all the different types of hypoxia which may be found and their effects on the human body. [10]
 - 2 Describe the non-urinary (hormonal) functions of the kidney. [10]
 - 3 Write short descriptive notes on
 - a) Taste. (5)
 - b) Gastric juice. (5)
 - c) Oedema. (5)
 - d) Antibodies. (5)[20]
- [40]



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Paper 3

Principles of pathology including microbiology

All questions are to be answered in one book

SECTION B

- 1 With regards to cellular adaptations to stress, explain the following terms and pathogenesis in each case
 - a) Hypertrophy. (5)
 - b) Hyperplasia. (5)
 - c) Atrophy. (5)
 - d) Metaplasia. (5)[20]

 - 2 Explain the following morphologic forms of acute inflammation. Your answer should include the pathogenesis in each case together with appropriate examples of each type
 - a) Serous inflammation. (5)
 - b) Fibrinous inflammation. (5)
 - c) Suppurative inflammation. (5)[15]

 - 3 Define shock and explain the three major categories of shock by distinguishing between them. [15]
- [50]



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SECTION C

Write short notes on each of the following

- 1 The aetiology and pathogenesis of systemic lupus erythematosus. (5)
 - 2 The role of p53 in controlling neoplasia. (5)
 - 3 Type-IV hypersensitivity reactions (T-cell mediated immunity). (5)
 - 4 Leukocyte recruitment to the site of acute inflammation. (5)
 - 5 Oncogenic microorganisms and their associated malignancies. (5)
- [25]