

**OTORHINOLARYNGOLOGY**

**PAPER-IV**

TIME: 3 HOURS  
MAX. MARKS: 100

ENT/D/20/28/IV

**IMPORTANT INSTRUCTIONS**

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- This question paper consists of 10 short note questions. Question paper is divided into 5 Parts - A, B, C, D and E, each part containing 2 questions.
- Answers to questions of part A, part B, part C, part D & part E are to be strictly attempted in a separate answer sheet booklet which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- Answers to question(s) attempted on an answer sheet booklet for a different part will not be evaluated.
- Part A/Part B /Part C/Part D/Part E should be mentioned on the covering page of the respective answer sheet booklet.
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

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**PART-A**

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**Write short notes on:**

**PART-A**

1. a) What is fractionation of radiotherapy? 5+5  
b) Role of Proton beam therapy in head and neck malignancy.
2. a) Classify the various types of free flaps. 4+3+3  
b) Discuss the factors contributing to a compromised flap and the various interventions to improve skin flap survival.

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**PART-B**

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Write short notes on:

**PART-B**

3. a) What is the thyroid imaging reporting and data system (TI-RADS) classification and scoring system of thyroid nodules? 5+5  
b) Discuss in brief how to approach a case of suspected recurrent thyroid cancer.
4. a) Principle and the equipment required for contact endoscopy. 5+5  
b) Role of contact endoscopy in management of oral cancers.

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**PART-C**

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Write short notes on:

**PART-C**

- |    |  |     |
|----|--|-----|
| 5. | a) What is the principle of PET-CT?                                | 4+6 |
|    | b) Indications and limitations of PET-CT in head and neck cancers. |     |
| 6. | a) What is artificial blood?                                       | 5+5 |
|    | b) Discuss the various methods to minimize transfusion reactions.  |     |

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**PART-D**

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**PART-D**

**Write Short notes on:**

- |    |   |           |
|----|---|-----------|
| 7. | a) Classify wounds based on level of contamination at surgery.                                  | 5+5       |
|    | b) Source and role of various cytokine/growth factors in wound healing.                         |           |
| 8  | a) Causes of Eustachian tube dysfunction.   | 2+(2+3+3) |
|    | b) Indications, procedure and complications of Eustachian tube balloon dilation and tuboplasty. |           |

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**PART-E**

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**PART-E**

**Write short notes on:**

9. a) Discuss the various stem cell types. 5+5  
b) Describe the potential clinical application of stem cells.
10. a) Classify lymphangiomas of the neck. 4+(3+3)  
b) Discuss the various medical and surgical options available for the management of a case of lymphangiomas.

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