

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**Fellowship in Head & Neck Surgical Oncology**

**July 2019 Examination**

Time : 3 Hrs.

[Max. Marks : 100]

**Paper-I**

**General Principals in Oncology, Radiotherapy, Chemotherapy**

**Q.P Code: F1011**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**(10 x 10 = 100marks)**

1. Describe the boundaries and contents of various triangles of neck. Trace out the course of Accessory nerve from its origin to terminal branches and add a note on surgical anatomy. (4+4+2)
2. Describe the embryology and development of Thyroid and Parathyroid glands and list out the disorders associated with the development. How will you evaluate a thyroid nodule on imaging? (5+1+4)
3. Enumerate the oncogenes and tumor suppressor genes affecting head and neck malignancies. List out their location and role in carcinogenesis in squamous cell carcinoma and enumerate the histone modifications affecting it. Explain the principle of targeted therapy in head and neck squamous cell carcinoma. (4+3+3)
4. Describe the principle, advantages, limitations and applications of Intensity Modulated Radiotherapy in Head and Neck cancers. How does it differ from Image Guided Radiotherapy? Enumerate adverse effects of Radiotherapy. (6+2+2)
5. Describe the characteristics of LASER and the principle of LASER surgery in Head and Neck cancers. List out the precautions and prerequisites for transoral LASER surgeries. Enumerate LASERS used in Head and Neck and mention their wavelength. (4+3+3)
6. Enumerate the first line drugs used in Chemotherapy for squamous cell carcinoma of head and neck. Describe the mechanism of action, dosage, adverse effects and applications of any one of them. (2+5+3)
7. Calculate the caloric and protein requirement of an elderly, sedentary and moderately built man with locally advanced pharyngeal cancer. How will you administer the fluid and nutritional requirements if patient has severe dysphagia? Discuss the options and limitations. (5+5)
8. Describe the characteristics of Epstein Barr Virus and mention the diseases caused by it. Give reasons for genetic predisposition of a disease caused by it, and mention the diagnostic methods for it. Add a note on Vaccines for virus induced cancers. (3+2+3+2)
9. Describe the anatomy of Larynx and the pathways of tumor spread in laryngeal cancers. Add a note on layers in Vocal Cord and its significance in Micro Laryngeal surgery. (7+3)
10. Describe Cohort study, Cross sectional study and Case control study and compare them. Add a note on various tests of significance in statistics. (6+4)

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Time : 3 Hrs.

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**Paper-II**

**Head & Neck Surgery, Reconstructive Surgery**

**Q.P Code: F1022**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**(10 x 10 = 100 Marks)**

1. Describe the various options for management of T3 Glottic cancers and list out the advantages and limitations of each option. Support your answer with mention landmark studies for each option. (5+3+2)
2. Describe the principles, types, indications for and contraindications for Marginal Mandibulectomy. Write a note on Osteoradionecrosis, its prevention and management. (6+4)
3. Describe the management of Solitary Thyroid nodule 3cms diameter showing micro calcifications (on imaging) in a 45yrs old lady. Describe the surgical landmarks for Recurrent Laryngeal Nerve and External Laryngeal Nerve. (6+2+2)
4. Describe the etiology, clinical features, staging and management of Juvenile Nasopharyngeal Angiofibroma. Add a note on preoperative embolization. (7+3)
5. Classify and list out the indications for tracheostomy. Enumerate the complications of tracheostomy. Classify and list out various tracheostomy tubes, their advantages and disadvantages. (4+3+3)
6. Classify Neck Dissections. Give the indications and limitations of each type of neck dissection. Enumerate the sequelae and complications of neck dissection. Add a note on Sentinel lymph node biopsy. (2+3+2+3)
7. Enumerate and classify Salivary Gland malignancies. Explain the rule of 80 in salivary gland malignancies. Enumerate the tumor-like conditions in Parotid and describe anyone of them in detail. (3+2+2+3)
8. Enumerate and classify the various axial flaps used in head and neck reconstructions and mention the vessel feeding each of these flaps. List out the advantages and limitations of any 3 of these flaps. Explain how you will ensure flap uptake (operative and post-operative). (3+2+3+2)
9. Describe the applications, limitations and advantages and procedure of Transoral Robotic Surgery. Compare it with Coblation Assisted surgeries. (7+3)
10. Classify Melanomas. Describe the etiology, clinical features and management of Melanoma of the dorsum of nose. Add a note on recent advances in management of Melanoma. (2+6+2)

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