लोक सेवा आयोग

नेपाल स्वास्थ्य सेवा, मेडिसिन समूह, मेडिकल अंकोलोजी उपसमूह, नवौँ (९) तहको खुला र आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

1. Pharmacology of Chemotherapeutic Drugs

- 1.1 Classification
- 1.2 Plant alkaloids
- 1.3 Alkylating agents
- 1.4 Antimetabolites
- 1.5 Anthracyclines, Antitumor antibiotics
- 1.6 Topo-isomerase inhibitors, proteosome inhibitors
- 1.7 Corticosteroids

2. Cancer of various Systems: Solid Tumors

- 2.1 Bone and soft tissue sarcomas
- 2.2 Respiratory system
- 2.3 GI Malignancies
- 2.4 Genitourinary Malignancies
- 2.5 CNS Tumors
- 2.6 Hepatobiliary and pancreatic cancers
- 2.7 Cardiovascular malignancies
- 2.8 Cancer of unknown primary
- 2.9 Cancer of breast
- 2.10 Cancer of skin
- 2.11 Cancer of endocrine system
- 2.12 Mesotheliomas
- 2.13 Gynaecologic cancers
- 2.14 Malignant melanomas

3. Haematological malignancies

- 3.1 Mylodysplastic Syndrome
- 3.2 Acute and chronic leukemias
- 3.3 Hodgkin,s and Non-Hodgkins Lymphomas
- 3.4 Plasma cell Dyscrasias
- 3.5 Myeloproliferative disorders

4. Childhood cancers and their management

- 4.1 CNS Tumors
- 4.2 Bone and soft tissue sarcomas
- 4.3 PNET tumors
- 4.4 Lymphoma and leukemias
- 4.5 Nephroblastoma
- 4.6 Hepatoblastoma
- 4.7 Retinoblastomas
- 4.8 Palliative care in children

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5. Manifestation of complications of cancer and cancer treatment in various systems and their management

- 5.1 Haematological complications
- 5.2 Renal complications
- 5.3 GI related complications
- 5.4 Infection and sepsis
- 5.5 Para- Neoplastic syndrome
- 5.6 Cardiovascular complications
- 5.7 Respiratory Complications
- 5.8 CNS complications
- 5.9 Metabolic Complications
- 5.10 Neuromuscular complications
- 5.11 Bone and joint complications
- 5.12 Skin and Appendages
- 5.13 Fertility issues
- 5.14 Psychosocial issues

6. Stem Cell Transplant

- 6.1 Indications and principles of stem cell transplant
- 6.2 Sources of stem cells preparative regimen
- 6.3 Procedure, complications, prognosis

7. Cancer Diagnostics

- 7.1 Radiological diagnostics
- 7.2 Molecular and cytogenetics
- 7.3 Cytological and Histopathological diagnostics
- 7.4 Biochemical Diagnostics
- 7.5 Tumor markers, IHC (Immunohistochemistry), Flowcytometry
- 7.6 Nuclear and Radionuclear imaging
- 7.7 Interventional Radiology
- 7.8 Basics of Radiation Oncology
- 7.9 Basics of Surgical Oncology

8. Recent Advances in cancer management

- 8.1 Essentials of Molecular Biology
- 8.2 Molecular Biology of cancer
- 8.3 Newer approaches in cancer; Immunotherapy, Biotherapy, Genetherapy

9. Palliative Care

- 9.1 Introduction and basic concept including definition
- 9.2 Pain assessment and management, WHO ladder, balanced use of opiods
- 9.3 Common symptom management
- 9.4 Communication, Breaking Bad News
- 9.5 Ethical issues in Palliative care
- 9.6 Psychosocial issues
- 9.7 End of life care
- 9.8 Supportive care and quality of life
- 9.9 Rehabilitation of cancer patient
