

बि.पि. कोइराला मेमोरियल क्यान्सर अस्पताल
प्राविधिक (स्वास्थ्य) सेवा, मेडिकल (एलाइड हेल्थ) समुह, रोग रोकथाम र नियन्त्रण (पब्लिक हेल्थ) उपसमुह,
अधिकृत सातौं तह, पब्लिक हेल्थ अधिकृत पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको
पाठ्यक्रम

एवं परीक्षा योजना

कुल पूर्णाङ्क : १२०

| १. प्रथम चरण : – लिखित परीक्षा | | | | | पूर्णाङ्क :- १०० | |
|---|-----------|------------|-----------------|---------------------------------|---------------------|---------------------|
| पत्र / विषय | पूर्णाङ्क | उतीर्णाङ्क | परीक्षा प्रणाली | | प्रश्नसंख्या X अङ्क | समय |
| General Subject and Technical Subject | १०० | ४० | वस्तुगत | बहुवैकल्पिक प्रश्न (MCQs) | १०० प्रश्न x १ अङ्क | १ घण्टा ३० मिनेट |

२. द्वितीय चरण : – अन्तर्वार्ता

| विषय | पूर्णाङ्क | परीक्षा प्रणाली |
|--------------|-----------|-----------------|
| अन्तर्वार्ता | २० | मौखिक |

द्रष्टव्य :

- यो परीक्षा योजनालाई प्रथम चरण (लिखित परीक्षा) र द्वितीय चरण (अन्तर्वार्ता) गरी दुई चरणमा विभाजन गरिएको छ ।
- लिखित परीक्षाको माध्यम भाषा नेपाली वा अंग्रेजी अथवा नेपाली र अंग्रेजी दुवै हुनेछ ।
- लिखित परीक्षामा यथासम्भव पाठ्यक्रमका सबै एकाईवाट देहाय बमोजिम प्रश्नहरू सोधिनेछ ।

| खण्ड | अङ्कभार | वस्तुगत प्रश्न संख्या |
|------|---------|-------------------------|
| A | १० | १० प्रश्न X १ अङ्क = १० |
| B | १० | १० प्रश्न X १ अङ्क = १० |

- वस्तुगत बहुवैकल्पिक (Multiple Choice) प्रश्नहरूको गलत उत्तर दिएमा प्रत्येक गलत उत्तर बापत २० प्रतिशत अङ्क कट्टा गरिनेछ । तर उत्तर नदिएमा त्यस बापत अङ्क दिइने छैन र अङ्क कट्टा पनि गरिने छैन ।
- यस पाठ्यक्रम योजना अन्तर्गतका पत्र/विषयका विषयवस्तुमा जसुकै लेखिएको भए तापनि पाठ्यक्रममा परेका कानून, ऐन, नियम तथा नीतिहरू परीक्षाको मिति भन्दा ३ महिना अगाडि (संशोधन भएका वा संशोधन भई हटाईएका वा थप गरी संशोधन भई) कायम रहेकालाई यस पाठ्यक्रममा परेको सम्झनु पर्दछ ।
- प्रथम चरणको परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र द्वितीय चरणको परीक्षामा सम्मिलित गराइनेछ ।
- पाठ्यक्रम लागू मिति :- २०७४/११/२९

बि.पि. कोइराला मेमोरियल क्यान्सर अस्पताल
प्राविधिक (स्वास्थ्य) सेवा, मेडिकल (एलाइड हेल्थ) समुह, रोग रोकथाम र नियन्त्रण (पब्लिक हेल्थ) उपसमुह,
अधिकृत सातौं तह, पब्लिक हेल्थ अधिकृत पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको
पाठ्यक्रम

पत्र/विषय : **General Subject and Technical Subject**

General Subject

Section (A) – 10 Marks

1. B.P.Koirala Memorial Cancer Hospital, Related Legislations and General Health Issues

- 1.1. B.P.Koirala Memorial Cancer Hospital : History, organizational structure, functions, roles, services, problems and challenges
- 1.2. National Health Policy
- 1.3. B.P.Koirala Memorial Cancer Hospital related act and regulations
- 1.4. Health Service Act, 2053 and Health Service Regulation, 2055
- 1.5. Professional council related acts and regulations
- 1.6. NMC and National Health Agencies
- 1.7. Role and responsibilities of WHO, UNICEF and UNFPA
- 1.8. Professional and medical ethics
- 1.9. Preventive Oncology
 - 1.9.1. Cancer epidemiology
 - 1.9.2. Primary prevention (Cancer Awareness, Cancer Education, Vaccination)
 - 1.9.3. Secondary Prevention (Screening, Screening Methods)

Technical Subject

Section (B) – 90 Marks

1. Epidemiology and Diseases Control

- 1.1 Definition and commonly accepted concepts, approaches, methods, incidence, prevalence, association and causation, disease prevention and control
- 1.2 Aim and use of epidemiology
- 1.3 Epidemiology of diseases (Infectious and non-communicable disease)
- 1.4 Emerging and reemerging diseases
- 1.5 Dynamics of disease transmission-source of reservoir, Mode of transmission susceptible host, immunity and immunizing agents
- 1.6 Investigation of an epidemic
- 1.7 Screening of diseases
- 1.8 Health Indicators
- 1.9

2. Health Statistics and Research

- 2.1 Definitions of statistics and role of statistics in health and medicine
- 2.2 Importance and limitation of statistics
- 2.3 Source of health information
- 2.4 Methods and tools for data collection
- 2.5 Classification, analysis and presentation of data
- 2.6 Measures of central tendency, dispersion, skewness, correlation and Regression

बि.पि. कोइराला मेमोरियल क्यान्सर अस्पताल
प्राविधिक (स्वास्थ्य) सेवा, मेडिकल (एलाइड हेल्थ) समुह, रोग रोकथाम र नियन्त्रण (पब्लिक हेल्थ) उपसमुह,
अधिकृत सातौं तह, पब्लिक हेल्थ अधिकृत पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको
पाठ्यक्रम

- 2.7 Probability and distribution, sampling and sampling methods, sampling errors, statistical tests of significance : t-test, Z test, χ^2 test (Chi- square Test) and F- test
- 2.8 Confidence interval and hypothesis testing, type I and type II error
- 2.9 Analytical study, control study, cohort study and descriptive study in cancer research
- 2.10 Recording reporting of different diseases - EWARS, surveillance activities
- 2.11 Health Management Information System

3. Demography

- 3.1 National population policy
- 3.2 Population trends – World and Nepal
- 3.3 Measure of population dynamics
- 3.4 Factors affecting fertility, mortality and migration
- 3.5 Life expectancy
- 3.6 National Demographic Health Survey

4. Cancer Registry

- 4.1 Definition and importance of cancer registry
- 4.2 History of cancer registry in the world and Nepal
- 4.3 Hospital based cancer registry and population based cancer registry
- 4.4 National cancer registry programme Nepal
- 4.5 Challenges of cancer registry in Nepal
- 4.6 WHO, UICC, IACR, INCTR, IARC, HUB of cancer registry
- 4.7 European cancer registry
- 4.8 Importance of software in cancer Registry (Canreg 5)

5. Indicators of cancer

- 5.1 Cancer incidence and its importance
- 5.2 Statistical methods for cancer incidence
- 5.3 Age specific incidence
- 5.4 Age standardized incidence
- 5.5 Barriers of cancer incidence in Nepal

6. Cancer Survival

- 6.1 Cancer Survival and its importance
- 6.2 Statistical methods for cancer survival
- 6.3 Barriers of cancer survival in Nepal
- 6.4 Cancer Survival analysis method
- 6.5 Influence factors of cancer survival and methods to calculate it
- 6.6 Life table and Kaplan- Meir method

बि.पि. कोइराला मेमोरियल क्यान्सर अस्पताल
प्राविधिक (स्वास्थ्य) सेवा, मेडिकल (एलाइड हेल्थ) समुह, रोग रोकथाम र नियन्त्रण (पब्लिक हेल्थ) उपसमुह,
अधिकृत सातौं तह, पब्लिक हेल्थ अधिकृत पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको
पाठ्यक्रम

7. Cancer Prevention and Control

- 7.1 Components of cancer control
- 7.2 Breast screening and its importance
- 7.3 Cervix screening and its importance
- 7.4 Risk factors of lung cancer, cervix cancer, breast cancer and stomach cancer

8. Cancer Diagnostics

- 8.1 Role of radiological interventions
- 8.2 Molecular and cytogenetics
- 8.3 Tumor markers, IHC (Immunohistochemistry), Flowcytometry
- 8.4 Nuclear and radionuclear imaging
- 8.5 Interventional radiology
- 8.6 Basics of radiation oncology
- 8.7 Basics of surgical oncology
- 8.8 Basics of medical oncology

9. Non-communicable diseases and cancer related conditions

- 9.1 Control of cancers: HIV/EBV/HCV/HTLV
- 9.2 HIV and cancer
- 9.3 TB and cancer
- 9.4 Management of anaemia in cancer
- 9.5 Diet and nutrition in cancer patients

The questions distribution for this paper/subject shall be as follows:

| Section | Marks | Multiple Choice Questions |
|---------|-------|--------------------------------|
| | | No. of Questions × Mark |
| A | 10 | 10 Questions × 1Mark =10 Marks |
| B | 90 | 90 Questions × 1Mark =90 Marks |