

नेपाली सेना

प्रा.उ.से.एम बि.बि.एस.डाक्टर (खुला) पदको लिखित परीक्षाको पाठ्यक्रम

समय : २ घण्टा ३० मिनेट

पुर्णाङ्क : १००
उत्तीर्णाङ्क : ४०

यो पाठ्यक्रम नेपाली सेनाको विभिन्न ईकाईहरूमा रिक्त रहेको प्रा.उ.से.एम.बि.बि.एस.डाक्टर (खुला) पदका उम्मेदवार छनौट परीक्षाको लागि निर्धारण गरिएको हो । लिखित परीक्षामा सरिक हुने उम्मेदवारहरूको पेशा सम्बन्धि विषयलाई आधारमानी प्रश्नहरू सोधिने छ ।

- (क) लिखित परीक्षाको माध्यम नेपाली/अंग्रेजी वा दुवै भाषा हुनेछ ।
- (ख) लिखित परीक्षाबाट छनौट भएका उम्मेदवारहरूलाई मात्र अर्को चरणको परीक्षामा सम्मिलित गराईने छ ।
- (ग) प्रश्न पत्र निर्माण गर्दा पाठ्यक्रममा समावेश भएका सबै विषयहरूलाई समेटिनेछ ।
- (घ) नेपाली सेनाको आवश्यकता तथा विविध परिस्थितमा नेपाली सेना अनुकुल हुने गरी उल्लेखित विवरणहरूमा हेरफेर हुन सक्नेछ ।
- (ङ) पाठ्यक्रमको रूपरेखा देहायमा उल्लेख गरे अनुसार हुनेछ ।
- (च) पाठ्यक्रम लागु मिति २०७३/१/६ गते ।

विषय	पुर्णाङ्क	उत्तीर्णाङ्क	परीक्षा प्रणाली		प्रश्न संख्या X अङ्क	समय
पेशा सम्बन्धी	१००	४०	वस्तुगत (Objective)	बहुवैकल्पिक प्रश्न (MCQs)	४० प्रश्न X १ अङ्क = ४०	२ घण्टा ३० मिनेट
			विषयगत (Subjective)	छोटो उत्तर	६ प्रश्न X ५ अङ्क = ३०	
				लामो उत्तर	३ प्रश्न X १० अङ्क = ३०	

पेशा सम्बन्धी विषयको पाठ्यक्रम
(SYLLABUS FOR MBBS DOCTOR)

1. Human Anatomy

- 1.1 General principles and basic structural concept of gross anatomy of skin, fascia, muscles, joints, heart, stomach, intestines, liver, and gallbladder, lungs, spleen, kidneys, uterus, ovary, testes, pituitary, thyroid, parathyroid and adrenal glands
- 1.2 Human osteology including musculoskeletal system
- 1.3 Gross anatomy and organization of various systems: gastrointestinal and hepatobiliary, respiratory, cardiovascular, genitourinary and reticulo-endothelial system
- 1.4 Gross anatomy of nervous system: subdivisions and their functions, neurons, nerve fibres and synapses

2. Human Physiology and Biochemistry

- 2.1 Neurophysiology: sensory receptors, reticular formation, cerebellum and basal ganglia
- 2.2 Reproduction: regulation of functions of male and female gonads
- 2.3 Cardiovascular system: mechanical and electrical properties of heart including ECG, regulation of cardio-vascular functions
- 2.4 Gastro intestinal and hepatobiliary system bilirubin metabolism, liver function tests, digestion and absorption of fats, metabolism of carbohydrates
- 2.5 Haematology: hemoglobin synthesis, abnormal hemoglobin synthesis, abnormal hemoglobins
- 2.6 Respiration : regulation of respiration
- 2.7 Renal physiology: tubular function, regulation of pH
- 2.8 Nucleic acids: RNA, DNA, genetic code and protein synthesis
- 2.9 Fluids and electrolytes balance and their regulation

3. Community Medicine

- 3.1 Principles of epidemiology and health care delivery
- 3.2 Concept and general principles of prevention of diseases and promotion of health
- 3.3 Organization of Nepal army health services, national health services, National health programmes (National Immunization Programme, Safe Motherhood Programme, National TB Control programme, Integrated management of childhood illnesses, Leprosy Control Programme, Elimination of Lymphatic Filariasis Programme, National Vitamin A supplementation programme, etc)
- 3.4 Nutrition, nutrients, nutritional requirements and the concept of balanced diet
- 3.5 Family planning methods
- 3.6 Principle of health care ethics and professionalism
- 3.7 Effects of environmental pollution and climate change on health

4. Pathology and Microbiology

- 4.1 Principles of inflammation, principles of carcinogenesis and tumour spread, coronary heart disease, infective disease of liver and gall bladder, pathogenesis of tuberculosis
- 4.2 Immune system, immunological And serological tests for collagen vascular disease
- 4.3 Etiology and laboratory diagnosis of disease caused by streptococcus, Salmonella, higella, vibrio, meningococcus and hepatitis virus
- 4.4 Life cycle and laboratory diagnosis of entamoeba histolytica, malaria parasite, ascariasis and hookworms

5. Medicine

- 5.1 Medical management of: headache, convulsions, coma, cerebro-vascular accidents, Chronic Obstructive Pulmonary Disease, Pneumonia, Pneumothorax, Pleural effusion, Congestive cardiac failure ischemic heart disease, hypertension, acid-peptic disease, status asthmatics, cardio pulmonary arrest, status epileptics, acute renal failure
- 5.2 Clinical features, etiology and treatment of: enteric fever, upper respiratory infections pneumonia, diarrhea, dysentery, hepatitis, coronary heart disease, rheumatic heart disease, arthritis, diabetes mellitus, poliomyelitis, meningitis, schizophrenia
- 5.3 Clinical features, diagnosis and treatment of various infectious and tropical disease: tuberculosis, malaria, kala-azar, leprosy, sexually transmitted diseases, Dengue fever, etc.

6. Surgery

- 6.1 Principles of surgical management of severely injured and process of fracture healing, head injury, burns, fractures (simple, compound) and dislocations
- 6.2 Malignant tumours of stomach and their surgical management
- 6.3 Principles of pre-operative and post- operative care
- 6.4 Clinical manifestation ,investigation and management of: hydrocephalus, Buerger's disease, appendicitis, benign prostatic hypertrophy, spina-bifida, bronchogenic carcinoma, carcinoma breast, carcinoma colon
- 6.5 Clinical manifestation, investigation and surgical management of: intestinal obstruction, acute urinary retention, spinal injury, Haemorrhagic shock, pneumothorax, cardiac tamponade, haemetemesis

7. Emergency and Procedure

- 7.1 Poisoning: Diagnosis and management of organ phosphorous, rodenticide, sulphos and paracetamol poisoning
- 7.2 Management of snake bite
- 7.3 Management shock
- 7.4 Cardio- pulmonary resuscitation, Lumber puncture, bladder catheterization, Paracentesis, pericardiocentesis, suprapubic cystotomy

8. Obstetrics and Gynaecology

- 8.1 Normal and high risk pregnancy, management of normal labour
- 8.2 Diagnosis and management of ectopic pregnancy, retained placenta and postpartum hemorrhage

9. Paediatrics

- 9.1 Characteristics of childhood: growth and development and their deviations
- 9.2 Infant feeding and immunization schedule
- 9.3 Care of the normal newborn and Integrated Management of Childhood Illnesses (diarrhea, pneumonia, malnutrition, malaria and anemia)
- 9.4 Paediatric emergencies: febrile convulsions, asthma, status epilepticus, status asthmaticus, life threatening congenital anomalies

10. Anaesthesia

(Theory question related to basic and advanced life support, steps in resuscitation of an unconscious person, etc.)

- 10.1 Cardio pulmonary resuscitation
- 10.2 Care of unconscious patient
- 10.3 Pharmacology of inhalation anesthetic agents
- 10.4 Induction and maintenance of general anesthesia
- 10.5 Complication of general anesthesia
- 10.6 Pharmacology of local Anesthetic agents
- 10.7 Critical care
- 10.8 Pain management

11. Ophthalmology

- 11.1 Common ophthalmic emergencies and their management
- 11.2 Conjunctivitis, corneal ulcer, cataract, retinal detachment, refractive errors, etc.

12. Otorrhinoloryngology

- 12.1 Common cold, rhinitis, sinusitis, epistaxis
- 12.2 Otitis externa, otitis media
- 12.3 Pharyngitis, retropharyngeal abscess
- 12.4 Epiglottitis, laryngeal papilloma, foreign body
- 12.5 Tracheostomy

13. Accidents and Emergency Medicine

- 13.1 Management of head injury
- 13.2 Management of abdomen injury
- 13.3 Poisoning management
- 13.4 Management of polytrauma
- 13.5 Disaster management

14. Acts related to health and medical profession

- 14.1 Principles of medical ethics, code of ethics
- 14.2 Nepal Medical Council Act
- 14.3 Acts related to Nepalese Army Health Services
- 14.4 Organs Transplant Act
- 14.5 Mother's Milk Substitute Act
- 14.6 Recent advances in medicine and surgery

यस पेशा सम्बन्धी विषयको पाठ्यक्रमका एकाईहरूबाट सोधिने प्रश्नहरूको संख्या निम्नानुसार हुनेछ ।

एकाई नं. (Unit No.)	अङ्कभार (Weightage)	बहुवैकल्पिक प्रश्न (MCQs) को संख्या	छोटो उत्तर प्रश्नको संख्या	लामो उत्तर प्रश्नको संख्या
१	२०	१०	६ प्रश्न X ५ अङ्क	३ प्रश्न X १० अङ्क
२				
३				
४				
५	२०	५		
६	२०	५		
७	२५	१०		
८				
९				
१०	१५	१०		
११				
१२				
१३				
१४				
जम्मा	१००	४० प्रश्न X १ अङ्क = ४० अङ्क	६ प्रश्न X ५ अङ्क = ३० अङ्क	३ प्रश्न X १० अङ्क = ३० अङ्क

Syllabus for Practical Examination

Practical Syllabus for MBBS Doctor Officer

Practical examination will consist of clinical skill assessment including history taking, physical examination and presentation. In **orthopedics, anesthesia, medicine, surgery** addition, skills in certain areas would be assessed through Objective Structured Clinical Examination (OSCE).

Time: 1 Hour

Full Marks: 50

Mark distribution as given below

SN	Topic	Full marks	Time
1	History taking	10	10
2	Examination of patient	10	10
3	Provisional diagnosis	3	5
4	Differential diagnosis	3	5
5	Investigations	3	5
6	Final diagnosis	3	5
7	Referral note	3	5
8	Viva	15	15
	Total	50	60

1. Apart from stepwise history taking following will be observed.
 - a) Approach to the patient including self introduction
 - b) Positioning of the patient
 - c) Bedside manners
2. In examination of the patient following points will be observed
 - a) Comfort of the patient
 - b) Skillful examination
 - c) Systemic approach
 - d) Interpretation of the clinical findings
3. In investigation to be asked for appropriate planning of investigation on the basis of history clinical examination and differential diagnosis will need to be considered.
4. Presentation of the case for the examiner including confidence and fluency of language.
5. OSCE: It includes drugs, equipment, X- rays, Specimen pathology reports, ABG, ECG, problem based question.