



GOVERNMENT OF JAMMU & KASHMIR
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES
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**Syllabus for Assistant Professor Posts of
the Department of Emergency Medicine,
SKIMS, SOURA.**

SYLLABUS FOR SCREENING TEST FOR THE POST OF ASSISTANT PROFESSOR, EMERGENCY MEDICINE DEPARTMENT

1. Prehospital Care-

- Emergency Medical Services: Historical Background, Overview and Future Trends, Prehospital equipments & adjuncts
- Air Medical Transport, Neonatal and pediatric Transport
- Mass Gatherings

2. Disaster Preparedness-

- Disaster Preparedness and Response
- Natural Disaster
- Bomb Blast, and Crush Injuries
- Chemical Agents and Mass Casualties
- Bio-Terrorism, Radiation Injuries

3. Resuscitation and Resuscitative procedure-

- Sudden Cardiac Death
- Resuscitation (basic and advanced life support) of Neonates, Children, Pregnancy and Adults
- Ethical Issue of Resuscitation
- Acid-Base Disorder, Fluids and Electrolytes
- Blood Gases, pulse oximetry capnography
- Cardiac rhythm disturbances
- Pharmacology of vasopressor, inotropes, antiarrhythmics antihypertensives agents
- Approach to the patient in shock
- Anaphylaxis and allergy
- Airway management (noninvasive, invasive, surgical)
- Mechanical ventilation
- Vascular access (Neonatal, pediatric, adults)
- Hemodynamic monitoring
- Cardiac pacing
- Defibrillation and cardioversion
- Pericardiocentesis



4. Analgesia, anesthesia and procedural sedation-

- Acute pain management (infants, children, adults)
- Local and regional anesthesia
- Procedural sedation and analgesia (infants, children, adults)
- Adults with chronic pain

5. Emergency wound management-

- Wound: Evaluation, preparation, closure
- Laceration to: face, scalp, arm, forearm, hand, thigh, leg, foot
- Soft tissue foreign bodies
- Puncture wound and bites
- Postrepair wound care

6. Cardiovascular Disease-

- Chest pain, Acute coronary syndrome, Low probability acute coronary syndrome
- Cardiogenic shock, Acute heart failure
- Syncope
- Valvular emergencies
- The cardiomyopathies, myocarditis, and pericardial disease
- Thromboembolism
- Systemic and pulmonary hypertension
- Aortic dissection and related aortic syndrome
- Aneurysmal disease
- Arterial occlusion

7. Pulmonary Emergencies-

- Respiratory distress
- Hemoptysis
- Acute bronchitis and upper respiratory tract infection
- Community acquired pneumonia, aspiration pneumonia and noninfectious pulmonary infiltrates
- Empyema and lung abscess
- Tuberculosis
- Pneumothorax
- Acute asthma in adults
- Chronic obstructive pulmonary disease

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8. Gastrointestinal Emergencies-

- Acute abdominal pain
- Nausea and vomiting
- Disorders presenting primarily with diarrhea
- Constipation
- Upper gastrointestinal and Lower gastrointestinal bleeding
- Esophageal emergencies
- Peptic ulcer disease and gastritis
- Pancreatitis, cholecystitis, Acute appendicitis, Diverticulitis
- Hepatic disorder, jaundice and hepatic failure
- Bowel obstruction and volvulus
- Hernias, Anorectal disorder
- Gastrointestinal procedures and devices
- Complication of general surgical procedures

9. Renal and Genitourinary Disorders-

- Acute renal failure
- Rhabdomyolysis
- End stage renal disease
- Urinary tract infections and hematuria
- Acute urinary retention
- Male genital problems
- Urologic stone disease
- Complication of urologic procedures and devices

10. Pediatrics and neonatal-

- Emergency care of children
- Neonatal emergencies and common neonatal problems
- Sudden infant death syndrome and apparent life threatening event
- Fever and serious bacterial illness
- Ear and mastoid disorder in infant and children
- Eye emergencies in infant and children
- The nose, sinuses, mouth and throat disorder
- Neck masses in children
- Stridor, drooling, Wheezing, Pneumonia
- Congenital and acquired heart defects, syncope, dysrhythmias
- Vomiting, diarrhea and dehydration, Fluid and electrolyte therapy
- Acute abdominal pain, Gastrointestinal bleeding in children
- Urinary tract infection, Urologic and gynecologic problems
- Renal, Oncology, hematology, metabolic emergencies, Sickle cell



- disease, diabetes
- Headache, Altered mental status, Seizures
- Musculoskeletal disorders in children
- Rashes in infants and children
- The child with special health care needs, Behavioral disorder in children

11. Infectious Diseases-

- Sepsis, Soft Tissue Infections, Sexually Transmitted Diseases, Serious Viral Infections
- Human Immunodeficiency Virus Infection
- Endocarditis, Tetanus, Rabies, Malaria
- Foodborne and Waterborne Diseases, Zoonotic Infections, World Travelers
- Occupational Exposures, Infection Control, and Standard Precautions

12. Neurology-

- Headache, Spontaneous Subarachnoid and Intracerebral Hemorrhage
- Stroke Syndromes, Altered Mental Status and Coma, Ataxia and Gait Disturbances, Vertigo and Dizziness, Seizures and Status Epilepticus in Adults
- Acute Peripheral Neurologic Lesions, Chronic Neurologic Disorders
- Central Nervous System and Spinal Infections
- Central Nervous System Procedures and Devices

13. Toxicology and Environmental Injuries-

- General Management of Poisoned Patients
- Drugs (Cyclic Antidepressants, Atypical Antidepressants, Serotonin Reuptake Inhibitors and Serotonin Syndrome, Monoamine Oxidase Inhibitors, Antipsychotics, Lithium, Barbiturates, Benzodiazepines, Nonbenzodiazepine Sedatives, Digitalis Glycosides, Beta-Blockers, Calcium Channel Blockers, Antihypertensive, Anticonvulsants, Antimicrobials)
- Alcohols, Methylxanthines and Nicotine
- Opioids, Cocaine, Methamphetamine and Other Amphetamines, Hallucinogens
- Salicylates, Acetaminophen, Nonsteroidal Anti-Inflammatory Drugs
- Iron, Metals and Metalloids
- Hydrocarbons and Volatile Substances, Caustics, Pesticides, Anticholinergics
- Industrial Toxins, Vitamins and Herbals

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- Dyshemoglobinemias
- Cold Injuries, Heat Emergencies
- Bites and Stings, Snake Bite
- Trauma and Envenomation's from Marine Fauna
- Diving disorder, High-Altitude disorder
- Drowning, Thermal and Chemical Burns
- Electrical and Lightning Injuries
- Mushroom Poisoning, Poisonous Plants
- Carbon Monoxide

14. Endocrine Emergencies-

- Type 1 and Type 2 Diabetes Mellitus, Diabetic Ketoacidosis, Ketoacidotic syndromes, Hyperosmolar Hyperglycemic State
- Hypothyroidism, Myxedema Crisis, Hyperthyroidism, Thyroid Storm, Adrenal Insufficiency and Adrenal Crisis

15. Hematologic and Oncologic Emergencies-

- Anemia, polycythemia, Hemostasis, Acquired Bleeding Disorders, Clotting Disorders, Hemophilias and Von Willebrand Disease, Sickle Cell Disease and Hereditary Hemolytic Anemias, Acquired Hemolytic Anemia, Transfusion Therapy
- Thrombotics and Antithrombotics
- Emergency Complications of Malignancy

16. Polytrauma and Orthopedic Injuries-

- Trauma in Adults, elderly, Paediatrics, pregnancy
- Trauma to : Head, Spinal, Face, Neck, Pulmonary, Cardiac, Abdominal, Flank and Buttocks, Genitourinary and Extremities
- Initial Evaluation and Management of Orthopedic Injuries
- Injuries to upper limbs, lower limbs pelvis
- Compartment Syndrome

17. Musculoskeletal Disorders-

- Neck, Back, Shoulder Pain, Hip and Knee Pain
- Emergencies in Systemic Rheumatic Diseases
- Non Traumatic Disorders of the Hand
- Joints and Bursa
- Soft Tissue Problems of the Foot

18. Obstetrics and Gynecology-

- Abnormal uterine bleeding, Abdominal and pelvic pain in the nonpregnant female, Ectopic pregnancy and emergencies in the first 20 weeks of pregnancy

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- Normal pregnancy, Emergencies after 20 weeks of pregnancy and the postpartum period, Emergency delivery, Co morbid disorder in pregnancy
- Vulvovaginitis, Pelvic inflammatory disease
- Breast disorder
- Complication of gynecologic procedures

19. Psychosocial Disorders-

- Mental Health disorder: ED evaluation
- Mental Health disorder of elderly
- Acute Agitation
- Mood and Anxiety
- Psychoses
- Eating and substance use disorder

20. Others-

- Eyes, Ears, Nose, Throat, and Oral Surgery
- Skin Disorders
- Abuse and Assault, Injection Drug Users, the Mentally Retarded Adult
- The Transplant Patient, the Morbidly Obese Patient, Palliative Care
- Legal Issues in Emergency Medicine, Death notification
- Military Medicine

→The question paper may be prepared by including questions from each section.

HoD

Emergency Medicine
