



PrepLadder

NEET-PG High-Yield Topics Analysis: A Strategic Guide Based on 2020-2024 Exam Trends

Anatomy

Topic	Year(s) Asked
Brachial Plexus – Roots & Injuries	2020, 2023
Erb's Palsy – Nerve Roots	2021
Development of Diaphragm	2024
Circle of Willis – Arterial Supply	2021
Muscles of Mastication – Innervation	2023
Facial Nerve – Course & Branches	2022
Midgut Rotation	2023
Portal Vein – Formation	2023
Lung Development – Embryology	2020
Thyroid Gland – Development	2024
Dermatomes – Key Landmarks	2022
Upper Limb Muscles – Actions	2021
Foramen of Skull – Contents	2023

Physiology

Topic	Year(s) Asked
Cardiac Cycle Phases	2021
Oxygen-Hemoglobin Dissociation Curve	2020, 2023
Renal GFR & Autoregulation	2024
Acid-Base Balance – Compensation	2021
Baroreceptor Reflex	2020
Lung Volumes vs Capacities	2023
Pain Pathway & Gate Control Theory	2023
Nerve Action Potential – Phases	2022
Hypothalamic Nuclei – Functions	2023
Fetal Circulation – Shunts	2021
Hormone Mechanisms – cAMP, IP3	2024
Special Senses – Taste & Smell Pathways	2024
GI Physiology – Gastric Secretion Control	2023

Biochemistry

Topic	Year(s) Asked
Glycogen Storage Diseases	2023
Vitamin B12 – Absorption & Deficiency	2024
Collagen Synthesis – Steps	2022
HMP Shunt Pathway	2023
Urea Cycle – Enzyme Deficiencies	2021
Lipid Transport – Chylomicrons & VLDL	2024

Enzyme Kinetics – Lineweaver-Burk	2021
Fatty Acid β -oxidation – Steps	2023
Purine Metabolism – Gout & Uric Acid	2023
Transcription & Translation	2022
Hemoglobin Electrophoresis – Hb Variants	2021
Carbohydrate Metabolism – Glycolysis	2020, 2022
Amino Acid Disorders – Maple Syrup Urine	2023

Pathology

Topic	Year(s) Asked
Cell Injury – Reversible vs Irreversible	2023
Apoptosis vs Necrosis – Markers	2021
Amyloidosis – Types & Stains	2022
Chronic Inflammation – Granulomas	2024
Neoplasia – Tumor Suppressor Genes (e.g., p53, Rb)	2020, 2023
Hemolytic Anemias – Peripheral Smear Findings	2022
Acute Myeloid Leukemia – M3 Subtype (APML)	2023
Hodgkin's Lymphoma – Reed Sternberg Cells	2021
Platelet Function Disorders – Glanzmann, Bernard Soulier	2022
DIC – Lab Findings	2024
Nephrotic Syndrome – Pathology	2023
Rheumatic Heart Disease – Aschoff Bodies	2021
Breast Carcinoma – Molecular Subtypes	2024

Tumor Markers – AFP, CEA, CA-125	2020, 2023
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Pharmacology

Topic	Year(s) Asked
Mechanism of Action – Competitive vs Non-Competitive Inhibition	2023
Adverse Drug Reactions – Type A vs B	2022
Antiplatelet Drugs – Aspirin vs Clopidogrel	2024
Anticancer Drugs – Cisplatin, Methotrexate Toxicity	2021
Antitubercular Drugs – MOA & Toxicities (INH, Rifampicin)	2022, 2024
Beta Blockers – Cardioselective vs Non-selective	2023
Calcium Channel Blockers – Clinical Uses	2021
Antiarrhythmic Drugs – Class I to IV	2023
Antifungal Drugs – Amphotericin B Toxicity	2022
Insulin Types – Rapid vs Long Acting	2023
Antipsychotics – Typical vs Atypical	2021, 2023
Anticholinergic Toxicity – Atropine Poisoning	2022
Drug Interactions – Enzyme Inducers/Inhibitors	2024
Pharmacokinetics – Half-life, Volume of Distribution	2023

Microbiology

Topic	Year(s) Asked
Gram-positive Cocci – Streptococcus & Staphylococcus	2020, 2023

Mycobacterium tuberculosis – Staining & Culture	2021
Leprosy – Classification, Lepromin Test	2023, 2024
Opportunistic Fungal Infections – Candida, Mucor	2021, 2022
Herpes Virus Family – HSV-1, CMV, EBV	2020, 2024
Rabies – Diagnosis & PEP	2023
TORCH Infections – Congenital CMV, Toxoplasma	2023
HIV – Structure & Diagnosis (p24 antigen)	2021, 2024
ELISA & Western Blot – Principle & Application	2020
Malaria – Lifecycle & Diagnosis	2022, 2023
Entamoeba histolytica vs E. coli – Differentiation	2023
Zoonotic Infections – Brucella, Leptospira	2022
Syphilis – Stages & Serology	2023
Culture Media – Enriched, Selective Media	2024
Antibiotic Sensitivity Tests – Kirby-Bauer	2023

Forensic Medicine

Topic	Year(s) Asked
Types of Wounds – Incised, Lacerated, Contusion	2021, 2023
Suspended Hanging vs Strangulation – Differences	2023
Signs of Drowning – Gettler Test, Froth	2020, 2022
Poisoning – Organophosphorus, Arsenic, Lead	2021, 2023, 2024
Barbiturate vs Benzodiazepine Overdose	2024
Postmortem Changes – Rigor Mortis, Livor Mortis	2023
Estimation of Age – Dentition, Ossification Centers	2021

IPC Sections – Consent, Criminal Responsibility	2023
Legal Procedure – Dying Declaration, Witness Types	2022
Fingerprint Patterns – Loops, Whorls, Arches	2023
Forensic Ballistics – Entry/Exit Wounds	2024
Sexual Offences – Hymen Types, Medicolegal Exam	2023
Tests for Blood Stains – Benzidine, Takayama	2024

PSM (Community Medicine)

Topic	Year(s) Asked
Screening Tests – Sensitivity, Specificity, ROC Curve	2021, 2023
Vaccine Schedules – UIP, Pulse Polio	2022, 2024
Reproductive & Child Health (RCH) Programs	2023
Epidemiological Study Designs – RCT, Case-Control	2021, 2023
Incidence vs Prevalence – Definitions & Examples	2020, 2023
Health Indicators – HDI, IMR, MMR	2021
Disease Eradication – Smallpox, Polio	2023
Occupational Hazards – Pneumoconiosis, Silicosis	2022, 2024
Biostatistics – Mean, Median, Mode, SD	2020, 2022
Levels of Prevention – Primordial to Quaternary	2023, 2024
Sanitation – Excreta Disposal Methods	2024
Biomedical Waste – Color Coding, Disposal	2023
Cold Chain – Vaccine Storage Guidelines	2022
National Health Programs – TB, Leprosy, Malaria	2020–2024

ENT

Topic	Year(s) Asked
Otosclerosis – Clinical Features, Management	2021, 2023
Tympanic Membrane – Anatomy & Perforation Types	2022
Hearing Tests – Rinne, Weber, ABC	2021, 2023
Audiogram Interpretation – Conductive vs SNHL	2023
CSOM vs ASOM – Key Differences	2023
Laryngeal Papillomatosis – Etiology & Treatment	2024
Epistaxis – Kiesselbach's Plexus, Management	2021, 2024
DNS – Clinical Signs & Correction	2023
Foreign Body in Airway – Steps of Management	2023
Vestibular Disorders – Meniere's, BPPV	2022
Nasal Polyps – Features & Types	2023
Carcinoma Larynx – Hoarseness, Vocal Cord Lesions	2023
Stridor – Causes by Age	2024
Tracheostomy – Indications, Complications	2021

Ophthalmology

Topic	Year(s) Asked
Visual Pathway – Lesion Localization	2021, 2023
Glaucoma – Open Angle vs Angle Closure	2022, 2024
Uveitis – Types & Complications	2021, 2022
Corneal Ulcer – Bacterial vs Fungal	2021, 2023

Trachoma – WHO Grading, Prevention	2023
Retinopathy of Prematurity – Risk Factors	2022
Diabetic Retinopathy – Fundus Changes	2022, 2023
Papilledema vs Optic Neuritis	2023
Cataract – Morgagnian, PSC, NS	2023
Lens Dislocation – Marfan vs Homocystinuria	2021
Refractive Errors – Myopia, Hypermetropia	2020
Vitamin A Deficiency – Xerophthalmia	2020
Anti-Glaucoma Drugs – MOA	2024
Squint – Hirschberg, Cover Tests	2021

Medicine

Topic	Year(s) Asked
ECG Interpretation – STEMI, AV Blocks	2020, 2023
Stroke Syndromes – MCA, PCA, Basilar	2023
Heart Failure – Signs, Drugs	2021, 2023
Diabetes Mellitus – Diagnostic Criteria, Drugs	2023, 2024
Hypertension – JNC Guidelines, Crisis Management	2021, 2022
Thyroid Disorders – Hyper vs Hypo	2020, 2023
Cushing's vs Addison's Disease	2022, 2024
Acid-Base Disorders – ABG Interpretation	2020, 2023
CKD – Staging, Electrolyte Changes	2023, 2024
COVID-19 – Diagnosis & Treatment (2020–22)	2020, 2021
Rheumatoid Arthritis vs Osteoarthritis	2021, 2022

SLE – Diagnostic Criteria, Antibodies	2022, 2023
HIV – Opportunistic Infections & Prophylaxis	2020, 2021
Tuberculosis – MDR/XDR, New Regimens	2023



Surgery

Topic	Year(s) Asked
Fluid & Electrolyte Management – Sodium/Potassium	2022, 2024
Burns – Rule of 9s, Parkland Formula	2023
Thyroid Surgery – RLN Injury, Complications	2023
Hernia – Types & Clinical Tests	2020, 2022
Breast Cancer – Molecular Types, Triple Negative	2021, 2024
Varicose Veins – CEAP Classification	2021
Hemorrhoids vs Anal Fissure	2023
Shock – Types, Management	2020, 2022
Trauma – FAST Scan, GCS	2023
Appendicitis – Clinical Signs	2023
Acute Pancreatitis – Ranson Criteria	2022
Gallstones – Risk Factors, USG Findings	2022, 2023
Colorectal Carcinoma – Duke's Staging	2020, 2023
Thyroid Malignancies – Papillary vs Follicular	2021



Obstetrics & Gynecology – High-Yield Topics

Topic	Year(s) Asked
Preeclampsia/Eclampsia – MgSO ₄ Protocol	2023, 2024

Stages of Labor – Partograph	2022, 2023
Postpartum Hemorrhage – Management	2020, 2023
Ectopic Pregnancy – Tubal vs Cornual	2022
Gestational Diabetes – Diagnosis & Mx	2023
Antenatal Screening – NT, PAPP-A, Quadruple	2024
Obstetric Cholestasis	2023
Uterine Prolapse – Management	2022
Ovarian Tumors – Germ Cell vs Epithelial	2021, 2023
Fibroid Uterus – Red Degeneration	2020, 2023
Endometriosis – Sites & Symptoms	2022
Contraceptives – CU-T, OCPs, Emergency	2021, 2024
PCOS – Rotterdam Criteria	2023
Cervical Cancer – FIGO Staging, HPV	2023

Pediatrics

Topic	Year(s) Asked
Neonatal Reflexes – Moro, Rooting	2023
Neonatal Jaundice – Physiological vs Pathological	2020, 2022
Congenital Heart Diseases – Cyanotic/Acyanotic	2023, 2024
Inborn Errors of Metabolism – MSUD, Galactosemia	2023
Pediatric Seizures – Febrile vs Epilepsy	2022, 2024
Pediatric Vaccination Schedule – National vs IAP	2021, 2024
Down Syndrome – Features & Associations	2021
Vitamin D Deficiency – Rickets Signs	2023
Pediatric Pneumonia – WHO Classification	2023

Acute Glomerulonephritis vs Nephrotic Syndrome	2023
Developmental Milestones – Red Flags	2020, 2024
Autism Spectrum Disorder – Early Signs	2024
Pediatric Poisoning – Iron, Paracetamol	2023

Orthopedics

Topic	Year(s) Asked
Bone Tumors – Osteosarcoma vs Ewing's	2020, 2022
Supracondylar Fracture – Complications	2023
Scoliosis – Cobb's Angle	2022
Rickets – Radiological Signs	2023
TB Spine (Pott's) – Cold Abscess	2022
Gait Abnormalities – Trendelenburg	2023
Osteomyelitis – Acute vs Chronic	2020, 2023
Avascular Necrosis – Common Sites	2022
Carpal Tunnel Syndrome – Tests	2021, 2023
Clubfoot – Ponseti Technique	2022
Nerve Injuries – Saturday Night Palsy	2021, 2023
Pediatric Fractures – Greenstick, Torus	2023

Final Set: Short Subjects

Psychiatry

Topic	Year(s) Asked
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Schizophrenia – 1st Rank Symptoms	2023
Depression – PHQ-9, Symptoms	2022
OCD – Diagnostic Criteria	2023
Personality Disorders – Types	2021
Postpartum Psychosis	2023
Delirium vs Dementia	2022
Alcohol Withdrawal – Delirium Tremens	2021, 2023
Antidepressants – SSRIs vs SNRIs	2023

Dermatology

Topic	Year(s) Asked
Pemphigus Vulgaris vs Bullous Pemphigoid	2024
Tinea Infections – Corporis, Capitis	2022, 2023
Psoriasis – Auspitz Sign, Nail Changes	2023
Leprosy – WHO Grading, Lepromin Test	2023, 2024
Lichen Planus – Wickham's Striae	2023
STDs – Chancroid vs Herpes	2022
SLE Cutaneous Features	2023
Molluscum Contagiosum – Umbilicated Papules	2024

Radiology

Topic	Year(s) Asked
X-ray Findings – TB, Pneumothorax	2023
Contrast Studies – Barium Swallow	2022
CT/MRI Brain – Stroke Localization	2022, 2023

IVP – Renal Stones, PUJ Obstruction	2023
Radiological Signs – Bamboo Spine, Onion Peel	2021, 2023
Mammography – BI-RADS Scoring	2024
Chest X-ray – Silhouette Sign	2023



Anesthesia

Topic	Year(s) Asked
Spinal Anesthesia – Levels, Complications	2021
ASA Classification	2023
CPR – ACLS Protocols, Drugs	2024
Laryngoscopy – Mallampati Score	2022
Thiopentone vs Propofol	2021
Local Anesthetics – Lignocaine Toxicity	2022
Neuromuscular Blockers – Succinylcholine vs Vecuronium	2023
Pre-Anesthetic Evaluation – ASA, Consent	2023