

# AIIMS Selective Broad topics -Dr. Vishnu

## Somakumar

ANATOMY	PHYSIOLOGY	BIOCHEMISTRY
<input type="checkbox"/> Exocrine pancreas vs parotid histology <input type="checkbox"/> Internal Capsule, parts, functions and lesions <input type="checkbox"/> Carotid Sheath <input type="checkbox"/> Midbrain C/S and decussation of cerebellar peduncles <input type="checkbox"/> Lemnisci pathways in detail <input type="checkbox"/> Gastric pit parts and cells <input type="checkbox"/> Ito cells <input type="checkbox"/> Pyloric fossa image <input type="checkbox"/> Layers of deep cervical fascia in detail, and structures enclosed <input type="checkbox"/> Basal Ganglia, part in Cadaver and neurotransmitters <input type="checkbox"/> Lower limb muscles and their functions (Gluteal/ thigh) - bony landmarks - images <input type="checkbox"/> Skull landmarks (pteron) and their underlying structures <input type="checkbox"/> Lungs and pleura level in breathing <input type="checkbox"/> Brachial Plexus <input type="checkbox"/> Muscles of the hand in detail <input type="checkbox"/> Relations of kidneys <input type="checkbox"/> Brain blood supply in detail <input type="checkbox"/> Cubital fossa structures cadaver <input type="checkbox"/> Upper limb nerve injuries <input type="checkbox"/> Blood supply of heart <input type="checkbox"/> Embryology of heart <input type="checkbox"/> Obturator and sciatic foramen structures <input type="checkbox"/> Upper part of femur structures and muscles <input type="checkbox"/> Actions of foot, joints and muscles involved <input type="checkbox"/> Intercostal arteries and veins <input type="checkbox"/> Muscles of mastication in detail <input type="checkbox"/> Cranial nerve: origin, types and supplies <input type="checkbox"/> Parasympathetic ganglia in detail <input type="checkbox"/> Collagen types, examples <input type="checkbox"/> Glands histology in detail	<input type="checkbox"/> Gibbs Donan Equilibrium <input type="checkbox"/> Receptor locations and examples (intracellular) <input type="checkbox"/> Feedback, types, examples and Gain in feedback <input type="checkbox"/> Muscle contraction - Sequence of contraction, Coupling mechanism in detail <input type="checkbox"/> Factors affecting pulse pressure (Arterial compliance effect) <input type="checkbox"/> GFR calculation, Creatinine clearance calculation and factors affecting <input type="checkbox"/> Pain control theories and application (TENS) <input type="checkbox"/> Types of learning, examples, Priming <input type="checkbox"/> Pituitary parts and hormones , genes <input type="checkbox"/> Neurophysiology: Transmission at synapse, Channels at Synapse <input type="checkbox"/> GPCRs types and actions <input type="checkbox"/> Touch receptors: types, functions and locations <input type="checkbox"/> Prolactin	<input type="checkbox"/> Cholesterol biosynthesis steps and RLS <input type="checkbox"/> Exosomes <input type="checkbox"/> Peroxisomal storage disorders <input type="checkbox"/> Vitamin D synthesis <input type="checkbox"/> <b>MPS, proteoglycans structure and disorders</b> <input type="checkbox"/> Glycolysis vs GNG <input type="checkbox"/> Glycogen storage, functions, synthesis, breakdown and disorders <input type="checkbox"/> DNA methylation <input type="checkbox"/> Enzymes in DNA synthesis and Transcription <input type="checkbox"/> DNA repair defects <input type="checkbox"/> <b>Ammonia detoxification and Urea cycle and disorders in detail</b> <input type="checkbox"/> Surfactant components <input type="checkbox"/> CRISPR <input type="checkbox"/> Restriction endonucleases <input type="checkbox"/> <b>tRNA , mRNA , Post Transcriptional modifications</b> <input type="checkbox"/> Types and examples of amino acids and their properties (acidic, basic, polar, etc) <input type="checkbox"/> <b>Vitamins and amino acid deficiencies</b>

PATHOLOGY	MICROBIOLOGY	PHARMACOLOGY	FORENSIC MEDICINE
<input type="checkbox"/> <b>Transfusion Reactions</b> <input type="checkbox"/> Massive Transfusion <input type="checkbox"/> CA colon genes sequence <input type="checkbox"/> CA pancreas genes sequence <input type="checkbox"/> CA Prostate Gleason scoring and grading <input type="checkbox"/> Vacutinators <input type="checkbox"/> Liquid based cytology <input type="checkbox"/> Thromboelastography <input type="checkbox"/> FNAC breast, thyroid - specimen and grading <input type="checkbox"/> Pap smear <input type="checkbox"/> Types of Fixatives <input type="checkbox"/> Hayflick limit <input type="checkbox"/> <b>Apoptosis types, pathways. APAF, Caspases, inhibitors and promoters</b> <input type="checkbox"/> Types of stem cells <input type="checkbox"/> Celiac Sprue in detail <input type="checkbox"/> Hepatic periportal fibrosis <input type="checkbox"/> Small round cell tumours <input type="checkbox"/> <b>Lymphomas and Leukemias: CD markers and Translocations</b> <input type="checkbox"/> <b>Cell cycle and inhibitors</b> <input type="checkbox"/> Iron absorption and inhibition in detail <input type="checkbox"/> CML phases in detail <input type="checkbox"/> VWF and VWD <input type="checkbox"/> <b>Approach to different types of anemia via lab values</b> <input type="checkbox"/> Bone marrow biopsy <input type="checkbox"/> Protooncogene <input type="checkbox"/> Anaphylaxis vs Anaphylactoid reaction <input type="checkbox"/> Mediators of inflammation and action (Histamine, LTs, etc) <input type="checkbox"/> Insecticides and larvicides (Malathion) <input type="checkbox"/> Levels of Prevention <input type="checkbox"/> Marfans syndrome <input type="checkbox"/> <b>CNS localisation of lesions</b>	<input type="checkbox"/> Biosafety levels and application in COVID <input type="checkbox"/> <b>BMW management</b> <input type="checkbox"/> Tetanus/Diphtheria/Rabies/Hep B antitoxin levels <input type="checkbox"/> <b>Arbovirus and their vectors</b> <input type="checkbox"/> Ebola <input type="checkbox"/> Sterilization and disinfection in detail (agents) <input type="checkbox"/> Gene Xpert and TB resistance <input type="checkbox"/> Sporotrichosis and cutaneous fungi <input type="checkbox"/> PCR <input type="checkbox"/> Cryptosporidium morphology and case <input type="checkbox"/> Opportunistic infections, especially parasites <input type="checkbox"/> ELISA types and principles <input type="checkbox"/> Immunoglobulins : types, Structure, epitopes <input type="checkbox"/> SCID types and genes <input type="checkbox"/> Viral inclusion bodies types and examples <input type="checkbox"/> T cell types <input type="checkbox"/> Cardiac myocyte histopathology findings (Box car, disarray, etc) <input type="checkbox"/> Beta 1, 3 glycan <input type="checkbox"/> <b>Mucormycosis</b> <input type="checkbox"/> Candida <input type="checkbox"/> <b>Interleukins sources and functions</b> <input type="checkbox"/> Malaria vs Babesia <input type="checkbox"/> Pneumococcal vaccine types and protocol <input type="checkbox"/> Post transplant infections <input type="checkbox"/> Stains in microbiology (Giemsa) <input type="checkbox"/> <b>Bacteria Cultures in detail (CLED vs McConkey)</b> <input type="checkbox"/> <b>Rabies vaccination</b> <input type="checkbox"/> Influenza and vaccine <input type="checkbox"/> Botulinum toxin, Diphtheria toxin and Tetanus toxin mechanisms <input type="checkbox"/> Echinococcus <input type="checkbox"/> <b>Gonorrhoea slide (STD microbiology in detail)</b>	<input type="checkbox"/> Tamoxifen uses and ADR <input type="checkbox"/> OHAS - classification, uses, ADR, special conditions like CKD <input type="checkbox"/> ADR of anticancers (Bleomycin) <input type="checkbox"/> Important drug interactions (Verapamil) <input type="checkbox"/> Enteric coated tablets <input type="checkbox"/> Psychiatric drugs and more importantly their ADR (Sexual Dysfunction) <input type="checkbox"/> ATT - first and second line drugs, ADR, and regimens, bactericidal vs static <input type="checkbox"/> CYP inhibitors (clarithromycin-rosuvastatin) and induction <input type="checkbox"/> Anti epileptics - uses and specific ADR (Vigabatrin) <input type="checkbox"/> <b>HIV treatment and PEP regimes</b> <input type="checkbox"/> Hairy cell leukemia DOC <input type="checkbox"/> Antidotes for fibrinolytics and anticoagulants <input type="checkbox"/> ANS - receptors and their functions <input type="checkbox"/> <b>Drugs in MI (detail) - which to use and not to use</b> <input type="checkbox"/> Prodrugs and examples <input type="checkbox"/> Antithyroid drugs and ADRs <input type="checkbox"/> Teratogenic drugs and examples <input type="checkbox"/> Antifungal with anti inflammatory activity <input type="checkbox"/> <b>Lithium kinetics and toxicity (detail)</b> <input type="checkbox"/> <b>Anticoagulants classification and MOA</b> <input type="checkbox"/> PCOD drugs and MOA <input type="checkbox"/> Drugs in Heart Failure <input type="checkbox"/> Pegloticase <input type="checkbox"/> Monoclonal Antibodies (Immuno pharm) <input type="checkbox"/> Prucalopride (Drugs acting on 5HT receptors) <input type="checkbox"/> Drug schedules <input type="checkbox"/> Anticholinergics <input type="checkbox"/> Heparin vs LMWH in detail <input type="checkbox"/> <b>Emergency drugs, dosages and routes (focus on adrenaline)</b> <input type="checkbox"/> <b>Opioids, receptors, mechanism of action, agonist-antagonist, special opioids with additional action, ADR</b> <input type="checkbox"/> Anti virals : Foscarnet ADR <input type="checkbox"/> Anti malaria classification and new drugs <input type="checkbox"/> Tedizolid ADR	<input type="checkbox"/> <b>Examination of Rape victims</b> <input type="checkbox"/> Snake bite: Types and management <input type="checkbox"/> <b>Poisonous plants and seeds images, id and active poison with mechanism of death</b> <input type="checkbox"/> Types of skull fractures <input type="checkbox"/> Types of wounds (incise vs lacerated vs looking) <input type="checkbox"/> Doctrines (anticipation/ res ipsa/ consent etc). Maloccurrences <input type="checkbox"/> POCSO act <input type="checkbox"/> <b>Inorganic Poisons</b> <input type="checkbox"/> <b>Bone Age, fusion of sutures</b> <input type="checkbox"/> <b>Narcotics poisoning identification and antidotes</b> <input type="checkbox"/> <b>Marbling</b> <input type="checkbox"/> Filigree <input type="checkbox"/> Gunshot injuries: Shotgun vs Rifle, Distance of shot and special types of shots

SPM	ENT	OPHTHAL
<input type="checkbox"/> Vaccines - types, mechanism, storage <input type="checkbox"/> BMW management and COVID <input type="checkbox"/> Classification of date (Ordinal, Nominal, etc) <input type="checkbox"/> Sentinel surveillance diseases <input type="checkbox"/> Modes of disease spread: direct vs indirect, droplet vs droplet nuclei <input type="checkbox"/> RBSK <input type="checkbox"/> MMR <input type="checkbox"/> Parametric vs Non Parametric Tests <input type="checkbox"/> Vectors and diseases transmitted (Hard and soft tick, flea, louse, mosquitoes, sand fly) <input type="checkbox"/> Perinatal mortality rate <input type="checkbox"/> Disaster: cycle and vaccines <input type="checkbox"/> Vaccination in detail (NIS, storage) <input type="checkbox"/> Hand wash	<input type="checkbox"/> BPPV diagnosis and treatment <input type="checkbox"/> Sinuses images identification <input type="checkbox"/> Tracheoesophageal prosthesis <input type="checkbox"/> Nerve blocks over the face (ant ethmoidal) <input type="checkbox"/> Acute epiglottitis vs LTB in detail <input type="checkbox"/> Epistaxis <input type="checkbox"/> Cholesteatoma <input type="checkbox"/> SCC dehiscence <input type="checkbox"/> Auditory Pathway <input type="checkbox"/> JNA <input type="checkbox"/> <b>Vocal cord nerves and injuries</b> <input type="checkbox"/> Tonsils <input type="checkbox"/> Neck nodes levels	<input type="checkbox"/> LASIK, power calculation formulas <input type="checkbox"/> Aperture vs Resolution <input type="checkbox"/> Horner's vs ARP vs Addies (Approach to anisocoria) <input type="checkbox"/> Vortex keratopathy drugs <input type="checkbox"/> Layers of cornea, their properties (regeneration) and transparency <input type="checkbox"/> <b>Glaucoma in detail including management</b> <input type="checkbox"/> ETDRS (Vision Tests) <input type="checkbox"/> Central Serous Retinopathy <input type="checkbox"/> Retina and FFA images and identification <input type="checkbox"/> <b>EOM, identification, nerve supply and palsies</b> <input type="checkbox"/> Macular edema, ischemia <input type="checkbox"/> Diabetic vs Hypertensive retinopathy in detail <input type="checkbox"/> Superior orbital fissure structures <input type="checkbox"/> Walls of orbit

GENERAL MEDICINE	GENERAL SURGERY	OBSTETRICS AND GYNECOLOGY	PAEDIATRICS
<input type="checkbox"/> Treatment of STEMI vs NSTEMI <input type="checkbox"/> GBS : case definition and treatment <input type="checkbox"/> ABCD2 score vs CHADVasc score <input type="checkbox"/> Alpha synucleinopathies <input type="checkbox"/> Celiac Sprue in detail <input type="checkbox"/> SIADH and vasopressin escape <input type="checkbox"/> Rheumatology IF patterns and antibodies <input type="checkbox"/> <b>Nephrotic vs Nephritic Syndromes in details (All types)</b> <input type="checkbox"/> Hyper and Hypo cortisol <input type="checkbox"/> <b>Acid Base disorders in detail</b> <input type="checkbox"/> <b>Arrhythmias (PSVT, Afib, MAT, Torsades)</b> <input type="checkbox"/> CKD in detail <input type="checkbox"/> Pulmonary renal syndromes <input type="checkbox"/> <b>Occupational lung disorders</b> <input type="checkbox"/> Dengue : DH/DSS <input type="checkbox"/> HBV serology <input type="checkbox"/> Valvular heart diseases <input type="checkbox"/> Ascites case and portal HTN	<input type="checkbox"/> MELD Score <input type="checkbox"/> TPN <input type="checkbox"/> Ideal Hernia Mesh <input type="checkbox"/> Burns Calculation of Area and Fluids <input type="checkbox"/> MC and LC nerve injuries in Thyroid Question <input type="checkbox"/> Parotid Surgery Nerve injuries <input type="checkbox"/> Protocol and next best step in Abdominal Perforation <input type="checkbox"/> Large bowel obstruction <input type="checkbox"/> Retroperitoneal hematoma, Manouvers <input type="checkbox"/> <b>Retractors</b> <input type="checkbox"/> <b>Trauma Surgery in detail:</b> Survey, all regional injuries including head, neck, chest, abdomen, protocols in management <input type="checkbox"/> Laparoscopy principles <input type="checkbox"/> Breast in detail <input type="checkbox"/> Thyroid in detail <input type="checkbox"/> <b>Shock types and management</b> <input type="checkbox"/> GIST <input type="checkbox"/> CA esophagus <input type="checkbox"/> Achalasia <input type="checkbox"/> Cold injuries <input type="checkbox"/> Esophageal variceal bleeds in detail <input type="checkbox"/> Neck dissections <input type="checkbox"/> IV cannulas <input type="checkbox"/> Testicular torsion <input type="checkbox"/> Undescended testes <input type="checkbox"/> Renal, Liver and Splenic injuries <input type="checkbox"/> Drains <input type="checkbox"/> Cauteries, harmonic scalpel, etc <input type="checkbox"/> Grading of wounds/ulcers/pressure sores	<input type="checkbox"/> PCOD drugs and MOA <input type="checkbox"/> <b>Rh incompatibility in detail</b> <input type="checkbox"/> <b>Molar pregnancy in detail including investigation and management</b> <input type="checkbox"/> Abortion in detail <input type="checkbox"/> Ectopic pregnancy in detail, including criteria (Studdiford, Speilberg, etc) <input type="checkbox"/> Drugs for induction of Ovulation <input type="checkbox"/> Episiotomy types, layers and structures injured <input type="checkbox"/> Approach to AUB (investigations) <input type="checkbox"/> Endometrial CA in detail <input type="checkbox"/> <b>Cervical CA in detail</b> (R/F, prevention and vaccine, SCREENING, approach and staging) <input type="checkbox"/> Vulvar CA in detail <input type="checkbox"/> Vulvar Hematoma image <input type="checkbox"/> Bishop's score <input type="checkbox"/> Fibroid in detail <input type="checkbox"/> OCPs - MOA, generations, CI, ADR <input type="checkbox"/> Abruptio vs P Previa in detail <input type="checkbox"/> Investigations in Infertility in detail <input type="checkbox"/> Biophysical Profile <input type="checkbox"/> IFA dosage <input type="checkbox"/> Choriocarcinoma <input type="checkbox"/> Pre Eclampsia <input type="checkbox"/> STDs <input type="checkbox"/> Malpositions and Malpresentations in Detail (Breech, Transverse, OP) <input type="checkbox"/> PPH types and management	<input type="checkbox"/> Neonatal seizures, causes and treatment <input type="checkbox"/> SAM - definition and treatment <input type="checkbox"/> Phototherapy- MOA and ADR, indications <input type="checkbox"/> Childhood diarrhoea and dysentery, their causes (case) and treatment of dehydration <input type="checkbox"/> Milestones and developmental implication <input type="checkbox"/> Types of dehydration, and their treatment <input type="checkbox"/> Paediatric asthma latest definition, guidelines <input type="checkbox"/> Resistant ricketts types and features (clinical and lab findings) <input type="checkbox"/> Alport Syndrome <input type="checkbox"/> <b>Nephrotic vs Nephritic Syndromes in details (All types)</b> <input type="checkbox"/> <b>RTA</b> <input type="checkbox"/> <b>Barter vs Gitelman vs Liddle's vs Gordons</b> <input type="checkbox"/> SSPE <input type="checkbox"/> Epilepsies in children (Absence, JME) <input type="checkbox"/> Neonatal Resuscitation <input type="checkbox"/> Pediatric CPR <input type="checkbox"/> High Risk Infants

DERMATOLOGY	ANESTHESIA	RADIOLOGY	PSYCHIATRY	ORTHOPEDICS
<input type="checkbox"/> Hyperpigmentation (Chikungunya) <input type="checkbox"/> <b>Blistering diseases in detail</b> (PV, BP, Ep bullosa, etc) <input type="checkbox"/> Dermatitis Artefacta case and image <input type="checkbox"/> Sporotrichosis <input type="checkbox"/> <b>Leprosy in detail, with Treatment</b> <input type="checkbox"/> Melanoma <input type="checkbox"/> <b>Maculopapular rash causes</b> <input type="checkbox"/> Endothrix vs Ectothric <input type="checkbox"/> Cutaneous Mycosis <input type="checkbox"/> Neurofibromatosis	<input type="checkbox"/> Anesthesia in ECT <input type="checkbox"/> Initial Ventilator settings : Trauma/COPD/COVID <input type="checkbox"/> Pre Anesthetic medications in Details <input type="checkbox"/> <b>Emergency drugs, dosages and routes</b> <input type="checkbox"/> <b>Intubation, ETT and manouvers</b> <input type="checkbox"/> <b>CPB</b>	<input type="checkbox"/> Perforation Peritonitis IOC <input type="checkbox"/> Retrograde ERCP indication <input type="checkbox"/> FAST/eFAST <input type="checkbox"/> Investigations for Biliary Dyskinesia (not done?) <input type="checkbox"/> Neurocysticercosis <input type="checkbox"/> Radiation sickness <input type="checkbox"/> Large bowel obstruction <input type="checkbox"/> USG disadvantages <input type="checkbox"/> IOC : hemoptysis in TB <input type="checkbox"/> Pneumothorax <input type="checkbox"/> Consolidation	<input type="checkbox"/> BPD <input type="checkbox"/> Lithium in detail <input type="checkbox"/> Substance Abuse in detail <input type="checkbox"/> Alcoholism and Delirium Tremens <input type="checkbox"/> Stupor <input type="checkbox"/> Psychopharmacology <input type="checkbox"/> Eating disorders <input type="checkbox"/> Psychiatry disorders Timeline	<input type="checkbox"/> Fish tail deformity <input type="checkbox"/> Hip and Femur : Fractures and dislocations <input type="checkbox"/> Types of Sequestrum <input type="checkbox"/> Named tests in Orthopedics <input type="checkbox"/> Menisci and cruciate injuries (Also learn functions) <input type="checkbox"/> <b>DISH vs AS</b> <input type="checkbox"/> TB spine in detail <input type="checkbox"/> Scoliosis : types, tests and treatments <input type="checkbox"/> Types of braces (counterforce/ knuckle bender, etc) and uses <input type="checkbox"/> Diabetic cheiroarthopathy <input type="checkbox"/> Ewing's sarcoma in detail <input type="checkbox"/> Upper Limb named deformities (Madelung, Gunstock, Bouteniere's etc etc) <input type="checkbox"/> CTEV <input type="checkbox"/> Shin Splint <input type="checkbox"/> DDH <input type="checkbox"/> Splints with images <input type="checkbox"/> Common Named fractures and Xrays <input type="checkbox"/> Cervical Rib and Tests <input type="checkbox"/> Klippel Fleil <input type="checkbox"/> Osteogenesis imperfecta <input type="checkbox"/> Ortho instruments and fixators <input type="checkbox"/> Bone tumours (Giant cell, Osteosarcoma, Ewings must) <input type="checkbox"/> Spine curvatures