



Aakash

Medical | IIT-JEE | Foundations

Regd. Office : Aakash Tower, 08, Pusa Road, New Delhi-110005

AIIMS CHALLENGER TEST SERIES (ACTS) (Phase-01) - From 20th Aug 2017 to 31st Jan 2018

Online Practice Schedule for CF+OYM and RM (2017-18) - Subject Wise

Sr.No.	Subject	Syllabus	Uploading Date of Online Practice Test (At 10 am sharp)	#Discussion Date on Aakash live (3 pm -7 pm)
1	Phy	Electrostatics; Current Electricity	Test-01 : 20-08-2017	23-08-2017
	Chem	Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry		
	Bio	Reproduction in organisms, Sexual reproduction in flowering plants, Heredity and Variation, Reproduction in Organisms, Human Reproduction, Reproductive Health.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		
2	Phy	Magnetic Effect of Current and Magnetism; Electromagnetic Induction and Alternating Currents; Electromagnetic Wave	Test-02 : 03-09-2017 Test-03 : 17-09-2017 and Test-04 : 07-10-2017	06-09-2017 20-09-2017 and 17-10-2017
	Chem	p-Block elements (Group 15 to 18), General Principles and Processes of Isolation of elements, d & f Block elements, Coordination compounds		
	Bio	Molecular basis of inheritance, Biology and Human Welfare: Improvement in food production; Plant breeding, tissue culture, single cell protein, Biofortification; Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers, Evolution, Health and Disease-I: Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology-vaccines.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		
3	Phy	Optics; Dual Nature of Matter and Radiation; Atoms and Nuclei; Electronic Devices	Test-05 : 22-10-2017 and Test-06 : 05-11-2017	01-11-2017 and 08-11-2017
	Chem	Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and carboxylic Acids, Organic compounds containing nitrogen, Biomolecules, Polymers, Chemistry in Everyday life		
	Bio	Ecology and Environment: Organisms and Environment, Ecosystem, Biodiversity and its conservation, Environmental issues, Health and Disease-II: Cancer, HIV and AIDS; Adolescence, drug and alcohol abuse, Apiculture and Animal Husbandry, Principles and process of Biotechnology: Genetic engineering (Recombinant DNA technology). Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy; Genetically modified organisms-Bt crops; Transgenic Animals; Biosafety issues-Biopiracy and patents.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		

Sr.No.	Subject	Syllabus	Uploading Date of Online Practice Test (At 10 am sharp)	#Discussion Date on Aakash live (3 pm -7 pm)
4	Phy	Physical World and Measurement; Kinematics	Test-07 : 12-11-2017 and Test-08 : 19-11-2017	15-11-2017 and 22-11-2017
	Chem	Some basic concept of chemistry, Structure of Atom, Classification of elements and periodicity in properties, Chemical bonding and molecular structure.		
	Bio	Diversity in Living World: What is living? ; Biodiversity; Need for classification; Three domains of life; Taxonomy & Systematics; Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy – Museums, Zoos, Herbaria, Botanical gardens keys, Five kingdom classification; salient features and classification of Monera, Protista and Fungi into major groups; Lichens; Viruses and Viroids, Salient Features and classification of animals-non chordate up to phyla level and Chordates upto classes level.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		
5	Phy	Laws of Motion; Work, Energy and Power; Motion of System of Particles and Rigid Body	Test-9 : 03-12-2017 and Test-10 : 13-12-2017	09-12-2017 and 16-12-2017
	Chem	States of Matter : Gases and Liquid, Thermodynamics, Equilibrium		
	Bio	Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms: Angiosperms-classification up to class, characteristic features and Examples, Morphology of Flowering Plants: Root, Stem, Leaf, Inflorescence-Racemose and Cymose, Flower, Fruit and Seed, Families., Structural Organisation in Animals:Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of animals (cockroach). (Brief account only), Chemical constituents of living cells: Biomolecules-structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes-types, properties, enzyme action.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		
6	Phy	Gravitation; Properties of Bulk Matter; Thermodynamics	Test-10 : 24-12-2017	27-12-2017
	Chem	Redox Reactions, Hydrogen, s-block elements, Some p-block elements (Group-13 & 14)		
	Bio	Anatomy of Flowering Plants, Cell Structure and Function: Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus, Cell division; Cell cycle, mitosis, meiosis and their significance, Digestion and Absorption, Breathing and Respiration, Body fluids and Circulation.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		

Sr.No.	Subject	Syllabus	Uploading Date of Online Practice Test (At 10 am sharp)	#Discussion Date on Aakash live (3 pm -7 pm)
7	Phy	Behaviour of Perfect Gas and Kinetic Theory; Oscillations and Waves	Test-11 : 31-12-2017 and Test-12 : 07-01-2018	03-01-2018 and 10-01-2018
	Chem	Organic Chemistry : Some Basic Principles & Techniques, Hydrocarbons, Environmental Chemistry		
	Bio	Transport in Plants, Mineral Nutrition, Photosynthesis, Respiration, Plant Growth and Development, Excretory products and their elimination, Locomotion and Movement, Neural control and coordination, Chemical coordination and regulation.		
	GK and LTA	General Knowledge and Logical Thinking & Aptitude		
8	PCBG*	Complete Syllabus of XI and XII	Test-13 : 21-01-2018 and Test-14 : 28-01-2018	24-01-2018 and 31-01-2018

Note: 1. Every Test will consist of 4 parts: Physics, Chemistry, Biology, General Knowledge and Logical Thinking & Aptitude. There shall be locked in time period of 60 mins., 60 mins., 60 mins. & 20 mins. to attempt 60 Qs of Physics, Chemistry, Biology respectively and 20 Qs of GK & LTA in each test. After the given time period for each subject, subject wise test paper shall be submitted automatically.

2. #Discussion of each test on scheduled date will be held on Aakash Live. Log in credentials shall be provided to students well in advance (To only 200 students identified by national team).

3. A Student must attempt each test within 3 days of uploading the test paper else they will not get subjectwise AIR.

PCBG* : Physics, Chemistry, Biology, General Knowledge and Logical Thinking & Aptitude