

Programme Schedule of online weekend classes (XI) under Udaan Project 2017-19

14th Week

Saturday 3rd February, 2018	
Class XI	
1:00 pm – 2:45 pm	
Subject	Physics
Resource person	Dr. Kulvinder Singh
Topic	Oscillations and Waves: Free, forced and damped oscillation, resonance, wave motion, longitudinal and transverse wave, speed of wave, displacement relation for a progressive wave, reflection of wave
2.45pm – 3.15pm Lunch Break	
3:15 pm – 5.00 pm	
Subject	Mathematics
Resource person	Mr. Rehan Nawaz
Topic	Complex Numbers: Demoivre’s theorem, geometry of complex numbers, equation of straight line, different Loci in complex numbers Mathematical Reasoning & Mathematical Induction: Statements, Logical Operations, Truth tables and its applications, tautologies, Contradictions,
Sunday 4th February, 2018	
9.00 am – 12.00 noon	
Subject	Chemistry
Resource Person	Dr. Rakhi Thareja
Topic	Some basic Concepts of Organic Chemistry: Stereoisomerism (Optical Isomerism) & Electronic Effects (Inductive Effect, Electromoeic Effect, Hyper conjugation Effect and Mesomeric Effect) Organic Acids & Bases and Reaction Mechanism Hydrocarbons: Alkanes & Alkenes – Preparation and Properties
12.00 noon -12.30 pm Lunch Break	
12.30 pm – 3.30pm	
Subject	Mathematics
Resource person	Mr. Rehan Nawaz
Topic	Mathematical Reasoning & Mathematical Induction: , Converse and Contrapositive statements, Principle of Mathematical induction and its simple applications Solution of Triangles: Sin rule, cosine rule, Napier’s analogy, Heron’s Formula, Circumradius, in-radius, ex-radius, Pedal triangle
3.30pm to 4.30pm Assessment on topics of upto week No.13	