

HOLIDAY HOMEWORK CLASS-XI

MATHEMATICS: (make a project file comprising the following topics)

1. Write all the formulae and draw all the graphs of the conic sections.

2. Write all the real valued functions and draw their graphs .

3. Write the derivatives of the real valued functions.

Do miscellaneous exercise questions from all the chapters covered till now.

PHYSICS : make a project on any one of the following topics

1. Elasticity
2. Surface tension
3. Viscosity
4. Thermodynamics
5. Wave motion

Complete the chapter 4 (volume 2nd)

Do the following questions

1. A police jeep is chasing a culprit going on motorbike. The motorbike crosses a turning at a speed of 72 km/h. The jeep following it at a speed of 108 km/h crossing the turning 10 sec later than the bike. Assuming that they travel at constant speed, how far from the turning will the jeep catch up with the bike.
2. A body travels a distance of 20 meters in the 7th second and 24 meters in 9th second. How much distance shall it travel in the 15th second?
3. A bird flies for 4 sec with a velocity of $|t - 2|$ m/s in a straight line, where t = time in sec. what is the total distance covered by the bird.
4. The relation between time t and distance x is $t = \alpha x^2 + \beta x$ where α & β are constant so that retardation is $2\alpha v^3$. Where v is instantaneous velocity.

CHEMISTRY

PHYSICAL EDUCATION: "Do the following in practical file"

1. Pictorial presentation of any five asanas.
2. Labeled diagram of any one game of your choice.

Prepare assignment on various careers on physical education.

Make a assignment on Somato types of personality with diagram.

Solve any two sample papers from cbse website.

English: Write a Summary of all chapters of your syllabus (Each day one summary)

Practice each day one tense at-least with 10 sentences.

Take a topic of your choice and write a debate against and for both, along with that write a speech on the same topic.

Observe the Classified column for advertisement in the English newspaper, also observe the poster too in newspaper. (Everyday)

COMPUTER SCIENCE

1. Read next chapter python module and understand it.
2. Understand the process of cyber security.
3. What is phishing process in cyber security.
4. Write a program to generate a password using random combination of words from dictionary file.