

केंद्रीय विद्यालय बडकुही

शरद कलीन अवकाश गृहकार्य

कक्षा – ग्यारहवी

SUBJECT-MATHEMATICS

Q 1 LEARN AND WRITE ALL THE FORMULA OF TRIGONOMETRIC FUNCTIONS, CONIC SECTION, BINOMIAL THEOREM.

Q 2 SOLVE THE EXAMPLES OF CHAPTER 1 TO 8 FROM NCERT BOOK.

Q3 DRAW VENN DIAGRAM FOR DEMORGONS LAW OF SETS.

SUBJECT ECONOMICS

1 SOLVE NUMERICAL QUESTIONS BASED ON MEAN, MEDIAN AND MODE ON YOUR NOTEBOOK (MINIMUM 3 QUESTIONS)

2 EXPLAIN CONSUMER EQUILIBRIUM, EQUILIBRIUM WITH THE HELP OF ECONOMICS.

3 Explain types of elasticity of demand.

SUBJECT

1 prepare a list of some animals that are found parasitic on human beings?

2. water vascular system is the characteristic of which group of the following?

a) perifera b) tenophora C) Echinodermata Chordata

3. Describe the various types of placentation's found in flowering plants.

4. Define the following terms. aestivation b) placentation

Q.5. Describe the following.

a) Synapsis b) bivalent C) Chiasmata.

6. Distinguish anaphase of mitosis from anaphase-1 of meiosis.

7. Complete Practical file.

SUBJECT:- PHYSICS

1. Write the answer or Derive the expression according to given question.

UNIT	Name of unit	Questions
1	Unit and Measurement	1. What are the dimensions of 'a' and 'b' in Vander Waals equation $(P + \frac{a}{V^2})(V-b) = RT$ 2. If Velocity, Time and Force Were Chosen as the Base Quantities, Find the Dimensions of Mass.



2	Kinematics	<ol style="list-style-type: none"> 1. State parallelogram vector law of vector addition and find the magnitude and direction of resultant of two vectors. 2. Write and derive the equations of motion.
3	Law of Motion	<ol style="list-style-type: none"> 1. State law of conservation of momentum and prove it by using third law of motion. 2. Discuss the motion of a body in a vertical circle. Find the expression for the minimum velocity at the lowest and the highest point while looping the loop.
4	Work, Energy and Power	<ol style="list-style-type: none"> 1. Show that the total mechanical energy of a body falling freely under gravity is conserved. Discuss it graphically also. 2. Define the terms Elastic collision and Inelastic collision. What is the difference between an inelastic collision and completely inelastic collision?
5	System of Particles and Rotational Motion	<ol style="list-style-type: none"> 1. Define angular momentum. Prove that angular momentum of a particle is equal to twice the product of its mass and areal velocity. 2. Define moment of inertia. Write any three factors on which it depends.
6	Gravitation	<ol style="list-style-type: none"> 1. Define acceleration due to gravity. Derive expression for the variation of g with height from the surface of the earth. 2. What is escape velocity? Prove that escape velocity from the surface of the earth is 11.2 km/s.

2. Write the following experiments in your practical notebook.

Experiments

1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.
2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.

To determine volume of an irregular lamina using screw gauge

