



D.A.V. PUBLIC SCHOOL

Beria Road, Bazpur, U S Nagar, Uttarakhand-262401
Affiliated to CBSE, New Delhi vide Affiliation No.3530245,
(An English Medium Co-educational Sr. Secondary School)
(Under Direct Control of D.A.V. College Managing Committee, New Delhi)
ASSIGNMENT OF CLASS XI SCIENCE

ENGLISH:

1. In a scrap book write your own biography. You can make it attractive by pasting pictures, writing slogans.(20)
2. Watch any movie of your choice and give your comment as a critic.(15)
3. Write commonly used Phrases and Idioms (minimum 10) (15)
4. Prepare a magazine of the school.(50)

PHYSICS: PHYSICS-HOLIDAY HOME WORK

- Q.1. Define fundamental forces in nature.
- Q.2. How do science and technology differ?
- Q.3. How is physics related to society?
- Q.4. Write down some advance inventions in physics.
- Q.5. The least count of a screw gauge is 0.001cm. The diameter of a wire measured by it is 0.225cm. Find out the percentage error in this measurement.
- Q.6. Explain the applications and limitations of dimensional analysis.
- Q.7. Assuming that the mass 'm' of the largest stone that can be measured by a flowing river depends on velocity 'v' of water, its density 'd' and acceleration due to gravity 'g'. Show that the mass varies directly as the sixth power of velocity of flow.
- Q.8. Write the dimensions of a/b in the relation:
 $P = (a - t^2) / bx$
Where 'P' is the pressure, 'x' is the distance and 't' is the time.
- Q.9. The escape velocity from the surface of the earth is given by $v = \sqrt{2GM/R}$, where m is the mass, R is the radius of the earth. Check the correctness of the given formulae.
- Q.10. Write the dimensions of stress, universal gravitational constant, surface tension, impulse, thrust, pressure, work, angular momentum, power, coefficient of viscosity.
- Q.11. Convert 1 newton into dyne.
- Q.12. The position of the object moving along x-axis is given by $x = a + bt^2$. Where $a = 8.5\text{m}$ and $b = 2.5\text{m/sec}^2$.
What is the velocity at:
(i) $t = 0$ sec

(ii) $t = 2$ sec

(iii) What is the average velocity between time $t = 2$ sec and $t = 4$ sec.

Q.13. A woman starts from her home at 9.00 am, walks with a speed of 5 km / h on a straight road up to her office 3.0 km away , stays at office up to 5.00 pm and returns home by an auto with a speed of 25 km/h choose suitable scales and plot the distance- time graph of her motion.

Q.14 . Explain :

(i) Point mass object.

(ii) Frame of reference.

(iii) 1- D, 2- D and 3- D motion.

Q.15. Draw Position – time graph and Velocity - time graph with positive acceleration , negative acceleration and zero acceleration.

CHEMISTRY: Q.1-Do assignment questions of chapter 1,2 and 3.

Q.2-Prepare an investigatory project on one of the following topics: -

- Electromagnetic radiation
- Metal, Non Metals and Metalloids
- Properties of P block elements
- Properties of s block elements

MATHS: XI CHAPTER-1- SET

CHAPTER-3-TRIGNOMETRY

CHAPTER-4- MATHEMATICAL INDUCTION

FUNCTION

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BIOLOGY: Q.1-Do assignment questions of chapter 1,2 and 3.

Q.2-Prepare an investigatory project on one of the following topics: -

- Diabetes and its prevention
- Public health and hygiene
- Drug addiction and drug abuse
- Obesity and health risk
- Nutritional aids

f) Air pollution and its effects

PHE 1. What is the meaning of physical education?

2. What is the meaning of physical fitness and wellness?

3. Explain briefly about sports Awards. Arjuna awards, Dronacharya Awards, Rajiv Gandhi Awards and Chacha Nehru Awards.

4. Explain the old and new Olympic movement.

5. Aim and Objective of physical education.

6. Olympic symbols, motto and values.

7. Preventing Health Threats Through Lifestyle Change.

8. Components of positive lifestyle.

9. Career option in physical education.

10. What is international Olympic Association and Olympic Committee.

IP

Q1. Write SQL queries to make database, a relevant table.

Q2. Apply all queries on table and write.

Q3. What do you understand by MySQL. Write some key features of MySQL.

Q4. Write short notes on Printer, Scanner, Bar Code Reader, OCR, OMR.

Q5. What do you understand by Primary Key, Foreign Key, Alternate Key, and Candidate Key.

Q6. What is computer system? Write the functionality of computer system and make suitable diagram.

Q7. Search some data for Application software and system software on internet and write about it

Q8. Make a model on any relevant topic of Hardware components of computer system. Example Printer.

Q9. What is client/server technology in MySQL server?

Q10. What are different types of language processors?

Q11. Make some web-pages on “Corporate” concept. Save your web-pages in pen drive.

Academic Co-ordinator

Principal