

SANT NIRANKARI PUBLIC SCHOOL
NIRANKARI COLONY
CLASS XI SCIENCE

PHYSICS

JUNE WEEK3 ASSIGNMENT 1

- Q1 - How physics is related to society?
Q2 - State various types of forces in nature.
Q3 - Name four physical devices widely used in medical diagnosis.
Q4 - Name some German Physicists with their contribution.
Q5 - Who proposed the wave theory of light?
Q6 - How elastic spring forces arise?
Q7 - On which scientific principle does optical fibres work?

PHYSICS

JUNE WEEK3 ASSIGNMENT 2

- Q1 - What do you mean by measurement of a physical quantity?
Q2 - Metre is well defined in terms of wavelength and time in terms of periods of radiation why?
Q3 - Explain echo method to find the distance of moon.
Q4 - If $x = a + bt + ct^2$ where x is in metres and t in seconds, write the units of a , b , c .
Q5 - Find the expression for centripetal force if it depends upon mass of the body, speed of the body, and the radius of the circular path.
Q6 - What is principle of homogeneity in dimensional method?
Q7 - A quantity has dimensions. Is it necessary it must have a unit?

ASSIGNMENT - 1 (MATHEMATICS)

WEEK 3 (CLASS XI)

1. Write the following sets in roster form
 - (i) $A = \{x: x \in R, 2x + 11 = 15\}$
 - (ii) $B = \{x: x \in R, x^2 = x\}$
 - (iii) $C = \{x: x \text{ is a positive factor of a prime number } p\}$
2. Write the following sets in roster form
 - (iv) $D = \{t: t \in R, t^3 = t\}$
 - (v) $E = \{w: w \in R, \frac{w-2}{w+3} = 3\}$
 - (vi) $F = \{x: x \in R, x^4 - 5x^2 + 6 = 0\}$
3. If $L = \{1, 2, 3, 4\}$, $M = \{3, 4, 5, 6\}$ and $N = \{1, 3, 5\}$ then verify that
$$L - (M \cap N) = (L - M) \cap (L - N)$$

4. A, B and C are subsets of universal set U . If $A=\{2,4,6,8,12,20\}$, $b=\{3,6,9,12,15\}$, $C=\{5,10,15,20\}$ and U is the set of all whole numbers ,draw a venn diagram showing the relation of U,A,B and C.
5. For all set A and B $(A - B) \cup (A \cap B) = A$
6. Let $T = \{x \mid \frac{x+5}{x-7} - 5 = \frac{4x-40}{13-x}\}$. Is T is empty set ? Justify your ans

ASSIGNMENT - 2 (MATHEMATICS)

WEEK 3 (CLASS XI)

1. If A ,B and C be sets .Then Verify that $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
2. In a class of 60 students, 25 students play cricket and 20 students play tennis and 10 students play both cricket and tennis, find number of student who play neither
3. If A is any set then $A \subset A$ (True /False)
4. The sets $\{1,2,3,4\}$ and $\{3,4,5,6\}$ are equal (True /False)
5. The sets $A = \{1,2,0\}$ and $B = \{X \in R \mid 0 \leq x \leq 2\}$ are equal (True /False)
6. $Q \cup Z = Q$ where q is the set of rational numbers and Z is the set of integers (true /False)

SUBJECT – CHEMISTRY

WEEK3 ASSIGNMENT -1

1. Name the different methods that can be used for separation of components of a mixture.
2. Classify following as pure substances and mixtures – Air, glucose, gold, odium and milk.
3. What is the difference between molecules and compounds? Give examples of each.
4. Write Postulates of Dalton's atomic theory.
5. How many significant figures are present in
(a) 4.01×10^2 (b) 8.256 (c) 100

SUBJECT – CHEMISTRY

CLASS – XI ASSIGNMENT -2

1. What is the SI unit of density?
2. What is the SI unit of volume? What is the other common unit which is not an SI unit of volume.
3. Calculate molecular mass of – C_2H_6 , $C_{12}H_{22}O_{11}$, H_2SO_4 , H_3PO_4
4. Calculate the number of moles in the following masses – (i) 7.85g of Fe (ii) 7.9mg of Ca
5. Vitamin C is essential for the prevention of scurvy. Combustion of 0.2000g of vitamin C gives 0.2998g of CO_2 and 0.819g of H_2O . What is the empirical formula of vitamin C?

PHYSICAL EDUCATION

JUNE WEEK-3 [Assignment 1]

1.Short-I Question Answers (1 Marks)

1. How many discipline of sports were there in Ist Kehlo India?
2. How many sports training and rules are available is Khelo-India app:
3. What is BMI?
4. Name the different competition for specially abled people:
5. What kind of professions are available in field of physical education sports and coaching:
6. Physical education teachers can teach in

.....

JUNE WEEK 3 (Assignment 2)

1. Enlist various careers in the field of physical education.
2. What are the aims and objective of A.F.I.?
3. Give any two definitions of the aim of physical education
4. Explain the selection criteria of Khelo-India Program.
5. What are the aims of Khelo-India Program?

Subject –English Assignment-1 (JUNE,Week-3)

Poem-1:A Photograph

I. Read the extract given below and answer the questions that follow by choosing the most appropriate one.

“The cardboard shows me how it was When the two girl cousins went paddling, Each one holding one of my mother’s hands, And she the big girl – some twelve years or so.”

Question 1.What does the cardboard here refer to?

- (a) A thick paper on which the poet’s photograph was pasted
- (b) A thick envelope
- (c) A thick paper on which the poet’s mother’s photograph was pasted
- (d) A paper boat

Question 2. What does the cardboard depict?

- (a) It depicts a scenery
- (b) It depicts the picture of a house
- (c) It depicts the picture of a school
- (d) It depicts the picture of three girls

Question 3. Who is the ‘big girl’ mentioned here?

- (a) The big girl is the poet herself
- (b) The big girl is the poet’s mother
- (c) The big girl is the poet’s relative
- (d) The big girl is the poet’s friend

“All three stood still to smile through their hair At the uncle with the camera. A sweet face, My mother’s, that was before I was born. And the sea, which appears to have changed less, Washed their terribly transient feet.”

Question 1. What does the poet mean by ‘smile through their hair’?

- (a) It means that a smile was painted on the hair of the photographed girls

- (b) It means that the photographed girls were wearing a mask
- (c) It means that the hair of the photographed girls were covering their face when they were smiling
- (d) It means that the hair of the girls in the photograph was smiling too

Question 2.

What has not changed over a period of time?

- (a) The photo
- (b) The cardboard
- (c) The girls
- (d) The sea

Question 3.

Find a word from the extract which means “lasting only for a short time”?

- (a) Still
- (b) Transient
- (c) Changed
- (d) Less

“Some twenty-thirty – years later She’d laugh at the snapshot. “See Betty And Dolly,” she’d say, “and look how they Dressed us for the beach.” The sea holiday Was her past, mine is her laughter. Both wry With the laboured ease of loss.”

Question 1. Why did ‘she’ laugh?

- (a) Because of the funny dresses that they were wearing at the sea holiday
- (b) Because one of them cracked a joke
- (c) Because of the funny dresses they were wearing at the party
- (d) Because of the funny man they saw at the sea holiday

Question 2. Who are Betty and Dolly?

- (a) They are poet’s cousins
- (b) They are poet’s friends
- (c) They are poet’s mother’s friends
- (d) They are poet’s mother’s cousins

Question 3. in the extract is the synonym of ‘photograph’.

- (a) Snapshot
- (b) Picture
- (c) Mine
- (d) Laboured

XI–English
Assignment-2 (JUNE,Week-3)

Lesson-The Portrait Of a Lady

1. Answer the following questions in about 30-40 words each:

Q A. Describe the grandmother in your own words.

QB. How were the narrator and the grandmother good friends in the village?

QC. What was the turning point in their friendship?

QD. What used to be the happiest moments of the day for the grandmother?

QE. How did the grandmother celebrate the homecoming of her grandson?

QF. How did the sparrows mourn the death of grandmother?

QG How can you say that the grandmother was a kind- hearted woman?

QH.write the three ways in which the author's grandmother spent her days in the city.

2. Answer the following question in 120-150 words.

Draw a character sketch of Khushwant Singh's grandmother as portrayed by him in the lesson 'The Portrait of a Lady'.

WORKSHEET [JUNE]

CLASS XI BIOLOGY The living world

Q.1. What are the units of classification followed by Botanists while classifying plants?

Q.2. Define the following:

Q.3. State the differences between flora, fauna, and vegetation.

Q.4. What do you mean by endemic and exotic species? Give examples for each.

Q.5. The number and kind of organisms are not constant. Explain.

Q.6. Brinjal and potato belong to the same genus but different species. What separates the two species?

Q.7. What is taxon? Give a few examples.

Q.8. A person living in a coma is considered living or dead?

Q.9. What are the different defining properties of a living organism?

Q.10. What is biodiversity?

Q.11. What is ICBN?

Q.12. What are the Building blocks of the living system?

Q.13. Write the full form for the following code – ICVN, ICBN, ICZN, ICNB.

Q.14. Define the following terms- Metabolism, Growth and Development.

Q.15. What is binomial nomenclature?

WORKSHEET [june]

CLASS XI BIOLOGY The living world]

Q.1. Name three botanists who contributed to the field of plant taxonomy.

Q.2. Expand ICZN? (Clue: The organization that dictates the correct use of the scientific names of animals)

Q.3. What is a couplet in the taxonomic key?

Q.4. Define a monograph.

.Q.5. Define metabolism.

Q.6. The mitotic cell division in amoeba represents growth or reproduction?

- Q.7. Name a few botanical gardens in India. Also, name the largest botanical garden in the world.
- Q.8. If a habitat contains 20 animal species and 20 plant species, is it “diversity” or “biodiversity”?
- Q.9. Identify the correctly written scientific name for mango species- *Mangifera indica*/*Mangifera Indica*.
- Q.10. Match the correct pairs.

Column I	Column II
Family	Tuberosum
Kingdom	Polymoniales
Order	Solanum
Species	Plantae
Genus	Solanaceae

- Q.11. What is the lowest category of classification?
- Q.12. What are the Taxonomic keys?
- Q.13. Who is known as the Father of Taxonomy?
- Q.14. What are the 8 levels of taxonomy?
- Q.15. What is Taxonomy?

ASSIGNMENT-1 (WEEK- 3) **SUBJECT: Computer Science**

- Q-1. Name the software required to make a computer functional. Write down its two primary services.
- Q-2 What is the need of RAM? How does it differ from ROM?
- Q-3 What is the need for secondary memory?
- Q-4 How do different components of the computer communicate with each other?
- Q-5 Identify the category (system, application, programming tool) of the following software:
- a) Compiler
 - b) Assembler
 - c) Ubuntu
 - d) Text editor

**SANT NIRANKARI PUBLIC SCHOOL
NIRANKARI COLONY
CLASS –XI**

**ASSIGNMENT-2 (WEEK- 3)
SUBJECT: Computer Science**

Q-1 Name the input or output device used to do the following:

- a) To output audio
- b) To enter textual data
- c) To make hard copy of a text file
- d) To display the data or information
- e) To enter audio-based command
- f) To build 3D models
- g) To assist a visually-impaired individual in entering data

Q-2 How does the computer understand a program written in high-level language?

Q-3 How Interpreter is different from compiler ?

Q-4 Differentiate between Primary Memory and Secondary Memory.