

**USE SUBJECT WISE NOTEBOOKS FOR ASSIGNMENT**  
**Assignment-3 for duration 16 May 2020 to 31 May 2020**

**Assignment-4 will be uploaded on 31 May 2020**

**Class- 11-SCIENCE**  
**Subject-ENGLISH**



**ASSIGNMENT-3**

(ENGLISH----HORNBILL)

1.THE PORTRAIT OF A LADY

**STUDY MATERIAL**

Note it down in your notebooks:

In this story, the author, Khushwant Singh, draws a pen portrait of his grandmother. When he was a little child, his parents left him in the village with his grandmother and went to live in the city. His grandmother was an old religious minded lady. She was always busy in counting the beads of her rosary. She woke him up, dressed him and accompanied him to school which was attached to the temple. She would take chapattis with her to feed the street dogs on the way to school. While he was at the school, she used to read the scriptures (religious books) in the temple.

When the author's parents were well-settled in the city, he and his mother also went there. Now there was a turning point in their friendship. He went to an English school and travelled in a motor bus. The grandmother did not accompany him to school but they shared the same room. When the author went to the University, he was given a separate room. Thus the last link of their friendship was broken.

The grandmother kept herself busy in her prayers and spinning the wheel. She would feed the sparrows. When the author went abroad for higher studies, she came to see him off at the station but showed no emotions. She was not sentimental at all. The author came back after five years. Grandmother was at the station to receive him. It was the first day in her life that she did not pray. She collected the women of the neighbourhood celebrated her grandson's home coming. The grandmother fell ill the next day and knew that her end was near. She did not waste her time and started her prayers. She was counting the beads of her rosary. Suddenly the rosary fell down and her lips stopped moving. She was dead. Thousands of sparrows assembled in the room and sat quietly to mourn her death. They did not even eat the crumbs given by the author's mother. After the grandmother's body was taken for cremation, the sparrows flew silently.

<b>Word</b>	<b>Meaning</b>
Absurd	ridiculous
Hobbled	walked with difficulty
Telling the beads	counting the beads while chanting the prayers
Rosary	a string of beads used for counting prayers as they are chanted
Puckered	wrinkled
Serenity	calm & peaceful
Lewd	indecent
Harlots	prostitutes
Bedlam	confusion
Thumped	beat hard
Pallor	pale colour of the face
Shroud	a piece of cloth used to cover a dead body before Cremation

### Home assignment:

1. Read the lesson
2. Answer the following questions:
  - i. Write a note in 120-150 words on the grandmother
  - ii. How can you say that grandmother was a kind hearted & religious minded lady? (80 to 100 words)

### STUDY MATERIAL

#### A PHOTOGRAPH

Shirley Toulson's poem 'A Photograph' is a tribute to her mother. The poet describes three stages in passage of time. In the first stage, the photograph shows the poet's mother standing at the beach enjoying her holiday with her two girl cousins. She was around 12 years old at that time. The second stage takes us twenty or thirty years later. The mother would laugh at the way she and her cousins were dressed up for the beach holiday. In the third stage, the poet remembers the dead mother with a heavy heart. The photograph revives a nostalgic feeling (longing for long gone moments) in the poet.

#### **Word**

Transient  
Snapshot  
Wry  
Cardboard

#### **Meaning**

temporary, lasting only for a short time  
photograph  
disgusted  
very stiff board on which the photograph was pasted

### Home assignment

1. Read the poem
2. Why does the poet feel nostalgic?

**Class : 11**

**Sub: Maths**

**Set** : A well defined collection of objects is called set . or we can say that a collection of objects which does not change person to person.

Eg. Collection of even natural numbers. Is a set

But collection of ten most talented students of your school . Is not a set, because here the definition of talented students could not be same for all.

The points are related to sets :

- Objects of the collection are known as elements or members of a set.
- Sets are denoted by capital letters eg. A, B, C etc.
- The elements are written in curly braces { } and separated by commas (,) . eg.  $A = \{ 1, 2, 3 \}$
- If 'a' is an element of a set B, we say that " a belongs to B " the Greek symbol  $\in$  (epsilon) is used to denote it. Eg. For the set A , " 2 belongs to A " is written as  $2 \in A$  .

There are two methods of representing a set :

1. **Roster form** .
2. **Set Builder form** .

**Note : All the information and solved examples are given in "study material (part 1) Sets". Please refer the study material .**

Solve the following questions

Q1. Which of the following are sets ? Justify your answer .

1. The collection of all the months of a year beginning with the letter J.
2. The collection of ten most talented writers of India.
3. The collection of even natural numbers less than 51.
4. The collection of ten most talented students of your school.
5. The collection of questions in this chapter.
6. Collection of all rational numbers between -1 and 1.
7. The collection of counting numbers less than 2.
8. A team of eleven best cricketers of the world.

Q2. If  $A = \{3,5,7,9,11\}$  then write which of the following statements are true. Justify your answer.

- 1)  $3 \in A$       2)  $5, 7, 9 \in A$       3)  $8 \in A$       4)  $10 \in A$       5)  $11 \in A$

Q3. Write the following sets in roster form :

- i.  $A = \{x : x \text{ is an integer , and } -3 < x < 7\}$
- ii.  $B = \{x : x \text{ is a natural number less than } 7\}$
- iii.  $C = \{x : x \text{ is a two digit natural number such that the sum of two digits is } 8\}$
- iv.  $D = \{x : x \in \mathbb{N}, x^2 < 40\}$
- v.  $E = \{x : x \text{ is a consonant in the English alphabet which precedes } k\}$

Q4. Write the following sets in the set builder form:

- i.  $\{1, 3, 5, 7, 9, 11, 13\}$
- ii.  $\{1, 4, 9, 16, \dots, 100\}$
- iii.  $\{2, 4, 8, 16, 32, 64\}$
- iv.  $\{3, 6, 9, 12, 15\}$
- v.  $\{2, 4, 6, 8, \dots, 50\}$

Q5. Which of the following sets are the examples of null set :

- i. Set of odd natural numbers divisible of 2.
- ii.  $\{x : x \in \mathbb{N}, x < 5 \text{ and } x > 8\}$
- iii.  $\{x : x \text{ is a point common to two parallel lines } \}$
- iv. Set of odd prime numbers .
- v.  $\{x : x \in \mathbb{Z}, -2 < x < 2 \}$

Q6. Which of the following are finite or infinite sets :

- i. The set of months of a year.
- ii. The set of natural numbers which are multiples of 7
- iii. The set of animals living on the earth.
- iv. The set of consonants in the English alphabet.
- v. The set of lines parallel to x- axis.

Q7. Check whether the following sets are equal or not :

- a.  $A = \{a,b,c,d\}$        $B = \{d,c,b,a\}$

- b.  $A = \{4, 8, 12, 16\}$        $B = \{8, 4, 16, 18\}$   
 c.  $A = \{2, 4, 6, 8, 10\}$        $B = \{x : x \text{ is positive even integer and } x \leq 10\}$   
 d.  $A = \{2, 3\}$        $B = \{x : x \text{ is a solution of } x^2 + 5x + 6 = 0\}$   
 e.  $A = \{x : x \text{ is a letter in the word FOLLOW}\}$        $B = \{x : x \text{ is a letter in the word WOLF}\}$

**(hint : where set is in “set builder form” first of all convert it into the “roster form” )**

Q8. From the sets given bellow, select equal sets :

- $A = \{2, 4, 8, 12\}$ ,       $B = \{1, 2, 3, 4\}$ ,       $C = \{4, 8, 12, 14\}$ ,       $D = \{3, 1, 4, 2\}$ ,       $E = \{-1, 1\}$ ,  
 $F = \{1, -1\}$ ,       $G = \{4, 8, 2, 12\}$

Q9. IF  $S = \{x : x \text{ is a positive multiple of 3 less than } 100\}$  and  $P = \{x : x \text{ is a prime number less than } 20\}$ , then find  $n(S) + n(P)$ .

**(hint :  $n(S)$  = number of elements of set S and  $n(P)$  = number of elements of set P. So first convert both the sets in roster form i.e find all the elements of the Sets S and P )**

Q10. Find the cardinal number of the following sets :

- 1)  $A = \{1, 2, 3, 4, 5, 8\}$
- 2) The set of all months of the year begin with “J” .
- 3) The set of all letters in the word “PRINCIPAL” .
- 4) The set of all consonants in the word “PRINCIPAL” .
- 5)  $B = \{1, 3, 5, 7, \dots, 19\}$

Q11. Match each of the sets on the left side described in roster form with the set on the right described in set builder form :

i. $\{2, 3\}$	a. $\{x: x \in \mathbb{N} \text{ and is a divisor of } 6\}$
ii. $\{5, -5\}$	b. $\{x: x \in \mathbb{N} \text{ and is a prime number divisor of } 6\}$
iii. $\{1, 3, 5\}$	c. $\{x: x \text{ is a letter in the word LITTLE}\}$
iv. $\{1, 2, 3, 6\}$	d. $\{x: x \text{ is an odd natural number } < 6\}$
v. $\{t, e, l, i\}$	e. $\{x: x \text{ is a root of the equation } x^2 - 25 = 0\}$

## PHYSICAL EDUCATION

### CLASS-11(UNIT-3)

NOTE: Read chepter 3 from your PDF file and answer the following.

- Q. 1- Define lifestyle?
- Q. 2- Define endurance?
- Q. 3- What is strength endurance?
- Q. 4- Give three importance of healthy lifestyle?
- Q. 5- What do you mean by physical fitness? Explain the importance of physical fitness.
- Q. 6- What are the components of wellness? Explain.
- Q. 7- What are the components of health-related fitness? Explain.

**Class-11**  
**Subject-Chemistry**

- Q1 What are the two properties of carbon which lead to a large number of carbon compounds we see around us?
- Q2 What are saturated and unsaturated hydrocarbons?
- Q3 Define homologous series. Give one example.
- Q4 Define combination reaction. Give one example.
- Q5 Define oxidation reaction. Give one example.
- Q6 Write two difference between substitution and Addition reaction.
- Q7 what is rectified spirit?
- Q8 Why ethanoic acid is also called glacial acetic acid?
- Q9 Draw the structure of propanoic acid and propanol.
- Q10 How ethanol and ethanoic acid is distinguish from each other with the help of chemical test.

Note: Refer class 10 ncert textbook. chapter 4.

**Class-11**  
**Subject- Physics.**

Refer class 10 Science ncert.

- Q1. What is dispersion?
- Q2. How rainbow form?
- Q3. Explain primary and secondary rainbow.
- Q4. What is atmospheric refraction.
- Q5. Why sun appear before 2 minutes of its actual raise.

**Class-11**  
**Subject- Biology**

Refer to class 10 textbook or NCERT app and answer the following:

1. What are the characteristics of living organisms?
2. What do you mean by living?
3. Define nutrition.
4. What is respiration?
5. What is excretion?
6. Name the organs of human excretory system.
7. Define phytohormones or plant hormones.
8. Name the different phytohormones.
9. Define tropism(tropic movements).
10. What is phototropism.