



**JINDAL ADARSH GRAMYA BHARTI**

**HR. SEC. SCHOOL, KIRODIMAL**

**NAGAR**

**SUMMER VACATION HOMEWORK -**

INTELLECTUAL

PERSISTENCE

**2026**

EXCELLENCE

**CLASS - IX**

**CBSE**

JINDAL ADARSH GRAMYA BHARTI HR. SEC.  
SCHOOL, KIRODIMAL NAGAR

SUMMER VACATION ASSIGNMENT

CLASS- IX

SUBJECT- ENGLISH

1

WRITING SKILLS & CREATIVE EXPRESSION

**Letter Writing:** Draft a formal letter to the Editor regarding rising noise pollution in your locality.



2

GRAMMAR AND VOCABULARY

**Grammar Menu (Grammar Cafe):** Create a cafe-themed menu on an A3 sheet where "Starters" are Nouns/Pronouns, "Main Course" is Tenses/Verbs, and "Desserts" are Adjectives/Adverbs.



3

VOCABULARY LOG

Read an English newspaper daily and list 5 new words with meanings and sentences for 15 days.



4

INTEGRATED PROJECT

**English Times - Mini Newspaper:** Design a 2-page newspaper using A3 sheets. Sections to include: One Headline Article, Summary of a chapter as news, a Grammar Quiz/Crossword, and a "Student Corner" for a short poem.



Learn Today, Lead Tomorrow!



## SUBJECT - HINDI



# ग्रीष्मकालीन गृहकार्य



निर्देश:

1. सभी कार्य गृहकार्य फाइल में करेंगे।
2. कवर पेज सजावट (Decorated) होना अनिवार्य है।
3. प्रोजेक्ट पेज से बनाना है।
4. कम से कम 20-25 पेज में लिखना है।
5. लिखावट स्पष्ट, सुंदर व आकर्षक होना अनिवार्य है।



### 1. परियोजना कार्य

“भारत की पावन नदी – गंगा नदी का उद्गम, प्रवाह मार्ग, प्रमुख सहायक नदियाँ और गंगा के सांस्कृतिक धार्मिक महत्व पर परियोजना तैयार कीजिए।”



### 2. गतिविधि

किसी 15 मुहावरों के अर्थ लिखकर उनका वाक्य प्रयोग कीजिए।



### 3. निबंध लेखन

“सड़क दुर्घटना : जिम्मेदार कौन” विषय पर लगभग 250 शब्दों में सारगर्भित निबंध लिखिए।

विवरण बिंदु:

- प्रस्तावना
- सड़क दुर्घटना के कारण
- सड़क दुर्घटना का प्रभाव
- बचाव के उपाय
- निष्कर्ष



### 4. सारांश लेखन

“दो बैलों की कथा” कहानी का सारांश 120 शब्दों में लिखिए।



### 5. रचनात्मक कार्य

(क) “जल बचाओ – पेड़ लगाओ” विषय पर पोस्टर बनाइए।



(ख) खान-पान की आदतें (जंक फूड VS हेल्दी फूड)



### 6. पत्र लेखन

(क) बार-बार बिजली गुल होने की समस्या के संबंध में अधीक्षक विद्युत विभाग को एक प्रार्थना पत्र लिखिए।

संकेत बिंदु:

- प्रेषक, प्राप्तकर्ता, दिनांक, विषय, समस्या, समाप्ति आदि।



(ख) अपनी बहन की शादी में मित्र को निमंत्रण पत्र लिखिए।

संकेत बिंदु:

- प्रेषक का पता, दिनांक, संबोधन, उद्देश्य विषय,
- विशेष आग्रह, समापन, प्रेषक का नाम।



नोट: पत्र लेखन को व्याकरण काँपी में लिखेंगे।

# ★ MATHEMATICS ASSIGNMENT ★



Solve the following questions neatly in your notebook.  
Show all steps and write answers clearly.



## 1 RATIONALISE THE DENOMINATOR OF THE FOLLOWING:

(i)  $\frac{\sqrt{7} + \sqrt{2}}{9 + 2\sqrt{14}}$     (ii)  $\frac{y^2}{\sqrt{x^2 + y^2} + x}$     (iii)  $\frac{2\sqrt{3} + 5\sqrt{7}}{\sqrt{5} + \sqrt{6}}$



## 2 EVALUATE:

$$\{\sqrt{7} + 2\sqrt{10}\} + \{\sqrt{5} - 2\sqrt{6}\}.$$



## 3 If $\sqrt{13 - x\sqrt{10}} = \sqrt{8} + \sqrt{5}$ , find $x$ .



## 4 If $x = \sqrt{5 + \sqrt{21}}$ and $y = \sqrt{5 - \sqrt{21}}$ , then find the value of $(x - y)$ .



## 5 RATIONALISE THE DENOMINATOR OF

(i)  $\frac{4}{2 + \sqrt{3} + \sqrt{7}}$     (ii)  $\frac{22}{2 + \sqrt{3} + \sqrt{5}}$     (iii)  $\frac{1}{\sqrt{5} + \sqrt{6} - \sqrt{2}}$



## 6 SIMPLIFY EACH OF THE FOLLOWING:

(i)  $\frac{3}{5 - \sqrt{3}} + \frac{2}{5 + \sqrt{3}}$     (ii)  $\frac{3\sqrt{2} - 2\sqrt{3}}{3\sqrt{2} + 2\sqrt{3}} + \frac{3\sqrt{2} + 2\sqrt{3}}{3\sqrt{2} - 2\sqrt{3}}$     (iii)  $\frac{\sqrt{7} - 1}{\sqrt{7} + 1} - \frac{\sqrt{7} + 1}{\sqrt{7} - 1}$



## 7 FIND THE VALUES OF 'a' AND 'b' IN EACH OF THE FOLLOWING:

(i)  $\frac{3 + \sqrt{7}}{3 - \sqrt{7}} = a + b\sqrt{7}$

(ii)  $\frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}} = a + b\sqrt{15}$

(iii)  $\frac{\sqrt{11} - \sqrt{7}}{\sqrt{11} + \sqrt{7}} = a + b\sqrt{77}$

(iv)  $\frac{\sqrt{2} + \sqrt{3}}{\sqrt{18} - \sqrt{12}} = a - b\sqrt{6}$

(v)  $\frac{5 + \sqrt{27}}{7 + \sqrt{48}} = a + b\sqrt{3}$

(vi)  $\frac{7 + 3\sqrt{5}}{7 - 3\sqrt{5}} = \frac{a}{2} + \frac{b\sqrt{5}}{2}$

(vii)  $\frac{\sqrt{2} - 1}{\sqrt{2} + 1} = a + b\sqrt{2}$

(viii)  $\frac{2\sqrt{6} - \sqrt{5}}{3\sqrt{5} - 2\sqrt{6}} = a + b\sqrt{30}$



## 8 FIND THE VALUES OF a AND b

(i)  $\frac{\sqrt{5} - 2}{\sqrt{5} + 2} - \frac{\sqrt{5} + 2}{\sqrt{5} - 2} = a - b\sqrt{5}$

(ii)  $1 - \frac{1}{1 + \sqrt{3}} + \frac{1}{1 - \sqrt{3}} = a + b\sqrt{3}$



## 9 If $\frac{5 + 2\sqrt{3}}{7 + 4\sqrt{3}} = a + b\sqrt{3}$ , then find the values of a and b.



## 10 SIMPLIFY:

$$\frac{7\sqrt{3}}{\sqrt{10} + \sqrt{3}} - \frac{2\sqrt{5}}{\sqrt{6} + \sqrt{5}} - \frac{3\sqrt{2}}{\sqrt{15} + 3\sqrt{2}}$$



★ DO YOUR BEST – MATH IS FUN WHEN YOU TRY YOUR BEST! ★



5. Express  $0.6 + 0.\overline{7} + 0.4\overline{7}$  in the form  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .
6. Express  $1.3\overline{2} + 0.3\overline{5}$  as a fraction in simplest form.
7. Express  $2.3\overline{6} + 0.2\overline{3}$  as a fraction in simplest form.
8. Find the value of  $2.\overline{6} - 1.\overline{9}$ .
9. Examine, whether the following numbers are rational or irrational:

- |                                |                                |                                     |                       |
|--------------------------------|--------------------------------|-------------------------------------|-----------------------|
| (i) $\sqrt{5}$                 | (ii) $\pi$                     | (iii) $\sqrt{49}$                   | (iv) $2\sqrt{3}$      |
| (v) $\sqrt{15}$                | (vi) $\sqrt{625}$              | (vii) $3 + \sqrt{7}$                | (viii) $7 - \sqrt{7}$ |
| (ix) $(\sqrt{8} - \sqrt{7})^2$ | (x) $(4 + \sqrt{5})^2$         | (xi) $(3 + \sqrt{7})(3 - \sqrt{7})$ |                       |
| (xii) $\sqrt{4} - 2$           | (xiii) $\sqrt{\frac{10}{250}}$ | (xiv) $-\sqrt{36}$                  | (xv) $\sqrt{2.56}$    |
| (xvi) 3.564                    | (xvii) 3.2323                  | (xviii) 4.404004000 .....           |                       |

10. Find which variables  $x, y, z$  etc., represent rational or irrational numbers:

- |                 |                |                    |                           |
|-----------------|----------------|--------------------|---------------------------|
| (i) $x^2 = 25$  | (ii) $y^2 = 8$ | (iii) $z^2 = 0.09$ | (iv) $u^2 = \frac{19}{9}$ |
| (v) $p^2 = 0.9$ |                |                    |                           |

11. Give an example each, of two irrational numbers whose:

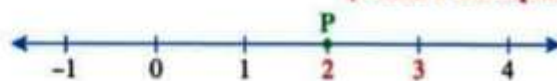
- |   |  |
|---|--|
| (i) Sum is an irrational number.          | (ii) Sum is a rational number.         |
| (iii) Difference is an irrational number. | (iv) Difference is a rational numbers. |
| (v) Product is a rational number.         | (vi) Product is an irrational number.  |

12. Give two rational numbers lying between  $0.1911191119111119$ ----- and  $0.21211211121111$ .....
13. Write two irrational numbers lying between 0.2 and 0.21.
14. Introduce two irrational numbers between (i) 0.5 and 0.51 (ii) 0.52 and 0.53.
15. Find two irrational number between (i)  $0.\overline{30}$  and  $0.\overline{31}$  (ii)  $0.\overline{52}$  and  $0.\overline{52}$
16. Find two rational and two irrational numbers between  $0.41411411141111$ ..... and  $0.424224222422222$  .....
17. Find three rational numbers between

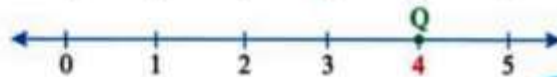
- |                                      |                   |                                       |
|--------------------------------------|-------------------|---------------------------------------|
| (i) -1 and -2                        | (ii) 0.1 and 0.11 | (iii) $\frac{5}{7}$ and $\frac{6}{7}$ |
| (iv) $\frac{1}{4}$ and $\frac{1}{5}$ |                   |                                       |

(NCERT Exemplar)

18. Represent  $\sqrt{7}$  on number line.



19. Represent  $\sqrt{17}$  on number line.



20. Represent  $\sqrt{26}$  on number line.
21. Represent  $\sqrt{7.2}$  on number line.
22. Represent the following on number line:  
(i)  $\sqrt{6.8}$ , (ii)  $\sqrt{9.8}$ , (iii)  $\sqrt{2.3}$ , (iv)  $\sqrt{4.5}$ , (v)  $\sqrt{4.6}$ , (vi)  $\sqrt{8.1}$
23. (i) Add  $(4\sqrt{2} + 6\sqrt{3})$  and  $(3\sqrt{2} - 2\sqrt{3})$ , (ii) Add  $(\sqrt{5} + 2\sqrt{3})$  and  $(2\sqrt{5} - 5\sqrt{3})$
24. Add  $(\sqrt{3} + 7\sqrt{5})$  and  $(4\sqrt{3} + 6\sqrt{5})$ .
25. Add  $(3\sqrt{3} + 4 + 2\sqrt{6})$  and  $(2 + \sqrt{3} + 5\sqrt{6})$ .
26. Subtract  $(6\sqrt{2} + 3\sqrt{5})$  and  $(3\sqrt{2} - 5\sqrt{5})$ .
27. Multiply  $(\sqrt{3} + \sqrt{2})$  and  $(2\sqrt{5} + 7\sqrt{3})$ .
28. Multiply  $(2 - \sqrt{2})$  and  $(3\sqrt{3} + 6\sqrt{2})$ .
29. (i) Divide  $6\sqrt{2}$  and  $3\sqrt{2}$
30. (i) Simplify  $(4 + \sqrt{3})(4 - \sqrt{3})$ , (ii)  $(5 - \sqrt{2})(5 + \sqrt{2})$ , (iii)  $(6 - 2\sqrt{2})(6 + 2\sqrt{2})$ ,  
(iv)  $(\sqrt{5} + 2\sqrt{6})(\sqrt{5} - 2\sqrt{6})$ .
31. Simplify (i)  $(\sqrt{3} + \sqrt{2})(3\sqrt{5} - \sqrt{6})$  (ii)  $(3 + \sqrt{2})(4 + \sqrt{3})$  (iii)  $(\sqrt{5} + \sqrt{2})(\sqrt{3} + \sqrt{2})$   
(iv)  $(\sqrt{15} + \sqrt{11})(\sqrt{15} - \sqrt{11})$  (v)  $(\sqrt{5} - \sqrt{7})^2$  (vi)  $(\sqrt{3} + \sqrt{2})^2$

1. Rationalise the following real numbers:

(i)  $\sqrt{5}$

(ii)  $3\sqrt{3}$

(iii)  $4\sqrt[3]{5}$

(iv)  $6\sqrt[3]{2}$

2. Rationalise the denominators of the following real numbers:

(i)  $\frac{7}{\sqrt{2}}$

(ii)  $\frac{2}{\sqrt{3}}$

(iii)  $\frac{4}{3\sqrt{5}}$

(iv)  $\frac{1}{3+\sqrt{5}}$

(v)  $\frac{1}{2-\sqrt{3}}$

(vi)  $\frac{1}{3\sqrt{7}+5}$

(vii)  $\frac{-5}{3\sqrt{5}-4\sqrt{3}}$

(viii)  $\frac{1}{3+\sqrt{2}}$

3. Simplify the following by rationalising the denominator:

(i)  $\frac{5-\sqrt{6}}{5+\sqrt{6}}$

(ii)  $\frac{\sqrt{3}-\sqrt{5}}{\sqrt{7}-\sqrt{6}}$

(iii)  $\frac{2\sqrt{6}+\sqrt{5}}{3\sqrt{5}-2\sqrt{6}}$

(iv)  $\frac{5\sqrt{3}-5\sqrt{2}}{\sqrt{48}-\sqrt{18}}$

(v)  $\frac{3}{\sqrt{48}-\sqrt{75}}$

(vi)  $\frac{7\sqrt{3}-5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$

(vii)  $\frac{\sqrt{3}-1}{2\sqrt{2}+\sqrt{3}}$

4. Rationalise the denominator of the following:

(i)  $\frac{2}{3\sqrt{3}}$

(ii)  $\frac{\sqrt{40}}{\sqrt{3}}$

(iii)  $\frac{3+\sqrt{2}}{4\sqrt{2}}$

(iv)  $\frac{16}{\sqrt{41}-5}$

(v)  $\frac{2+\sqrt{3}}{2-\sqrt{3}}$

(vi)  $\frac{\sqrt{6}}{\sqrt{2}+\sqrt{3}}$

(vii)  $\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$

5. If  $\sqrt{3} = 1.732$  and  $\sqrt{5} = 2.236$ , find the value of  $\frac{1}{4\sqrt{3}-3\sqrt{5}}$ .

Note:-

- (1) Assignment should be written on your notecopy.
- (2) Completion of notecopy.

## CHAPTER - NUMBER SYSTEM

### EXERCISE 1.1

1. Find three rational numbers between  $\frac{3}{5}$  and  $\frac{4}{5}$ .
2. Write **True** or **false** against the following statements.
  - (i) Every natural numbers are whole numbers.
  - (ii) Every whole numbers are natural numbers.
  - (iii) Every integers are whole numbers.
  - (iv) Every whole number is a rational number.
3. Write  $\frac{3}{13}$  in decimal form and say what kind of decimal expansion it has?
4. Express each of the following decimals in the form  $\frac{p}{q}$ :

(i) 0.42

(ii)  $0.\bar{5}$

(iii)  $0.\overline{31}$

(iv) 0.305

(v)  $1.\bar{2}$

(vi)  $23.\overline{42}$

(vii)  $35.\overline{345}$

(viii)  $0.38\bar{5}$

(ix)  $5.6\bar{7}$



# CLASS - 9<sup>th</sup> SCIENCE HOLIDAY HOMEWORK

Read the instructions carefully and complete your holiday homework.

## 1 WRITE NOTES

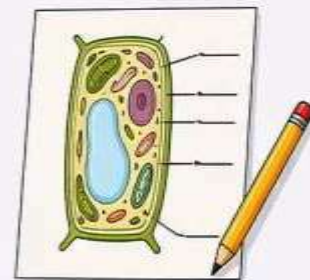
- Write neat and well-organized notes on the following topics.
- Use your own words and readable handwriting.
- Add headings, subheadings and important points.
- Draw diagrams wherever necessary and label them clearly.

- Reproduction
- Plant Cell
- Animal Cell
- Force
- Sound



## 2 DIAGRAMS

- Draw all required diagrams as mentioned in the topics.
- Diagrams should be neat, large and clearly labeled.
- Use a pencil for drawing and a ruler for straight lines.
- Color your diagrams neatly (if required).



## 3 PRESENTATION

- Use a separate notebook or file for each topic.
- Keep your work clean, neat and attractive.
- Write the date and topic name on each page.
- Create an index at the beginning of your notebook.



## 4 GENERAL INSTRUCTIONS

- Do all the work on your own.
- Take help from textbooks and other reference books.
- Revise your notes regularly to understand the topics better.
- Submit your holiday homework on the given date.



## 5 TIPS FOR SUCCESS

- Plan your time and complete the work regularly.
- Do not copy from the internet or from your friends.
- Be creative and present your work in the best possible way.
- Hard work today leads to a brighter tomorrow!



★ LEARN WELL – STAY CURIOUS – STAY SAFE! ★





Experiment  
1

## Experiments based on Newton's laws of motion

**Aim :** To perform experiments based on Newton's laws of motion.

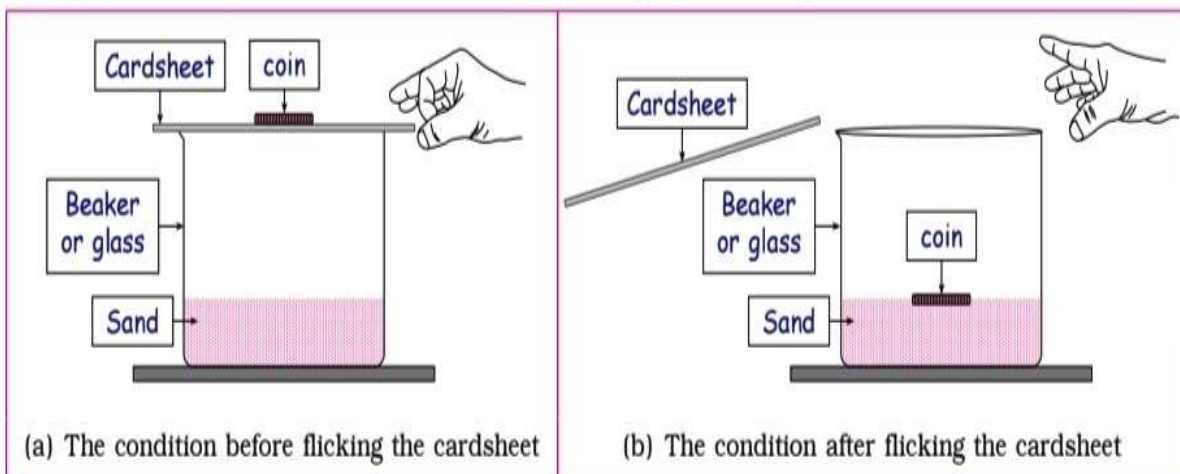
**Requirements :** A beaker or glass, a piece of cardsheet, sand, a ₹ 10 coin, an iron block and a wooden block of the same size, fine soil, water, a flat container, a balloon, a plastic straw, thread.

### Part A

#### Procedure :

- (1) Take some sand in a beaker or glass.
- (2) Place a cardsheet on it.
- (3) Keep a ₹ 10 coin on the cardsheet at the centre of the beaker or glass.
- (4) Now flick the cardsheet with a finger. (*The movement must be very quick.*)
- (5) Record your observation and explain it.

**Diagrams :** Read the procedure and draw neat labelled diagrams accordingly.



**Cardsheet and coin experiment**

**Observation and explanation :** When the beaker is filled with sand it becomes heavy and does not tilt. Before a hard strike, the beaker, cardsheet and coin are at rest. But after the strike, cardsheet sets into motion in forward direction and the coin drops down into the beaker.

Due to the strike on cardsheet, the external unbalanced force acts on it. It changes the state of rest and the cardsheet moves forward with certain speed in the direction of applied force.

There is no such action of external force on coin. Therefore, coin doesn't change its state of rest. But due to downward force of gravity acting on coin, it moves downwards and falls into the beaker.

From this experiment, the property of inertia and the Newton's First Law of Motion is explained.

**CLASS IX**  
**STRUCTURE OF ATOM**  
**WORKSHEET- 10/11**

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**1 Mark Questions:**

1. On the basis of Thomson's model of an atom, explain how the atom is neutral as a whole?
2. Where are electrons found in the atom?
3. What are canal rays?
3. Why is the nucleus of an atom positively charged?
4. Why did Rutherford select a gold foil in his  $\alpha$ -ray scattering experiment?
5. If  $\text{Mg}^{2+}$  has 12 protons and 12 neutrons, what is its atomic number and mass number? (CBSE 2010)
6. What are the limitations of Rutherford's model of the atom?
7. Define valency and Give an example of a monovalent element.
8. An atom of an element has 7 electrons in its L shell, name the element and write its atomic number?
9. Why Mg atom gets 2+ charge when it loses two electrons?
10. Name the particles which determine the mass of an atom.
11. Which of the following are isotopes and which are isobars? Argon, Protium, Calcium, Deuterium.

**2 Mark Questions:**

1. What observations in a scattering experiment led Rutherford to make the following observations:
  - i) Most of the space in an atom is empty.
  - ii) Nucleus is positively charged.
  - iii) Whole mass of an atom is concentrated in its centre.
2. Mention any two drawbacks of Rutherford's model.
3. State the characteristics of nucleus of an atom.
4. Describe Bohr's model of the atom?
5. The atomic number of chlorine is 17 and mass number is 35.
  - a. What would be the electronic configuration of a negatively charged chloride ion,  $\text{Cl}^-$ ?
  - b. What would be the atomic number and mass number of  $\text{Cl}^-$ ?
6. What is electronic configuration and how is the valency of an atom related to it?
7. Which of the two would be chemically more reactive element, X of atomic number 18 or element Z of atomic number 16 and why?
8. What are isotopes? Why do isotopes show similar chemical properties but they differ in physical properties?
9. Write isotopes of uranium and its uses.
10. Write one pair of Isobars. Why the chemical properties of isobars are not similar?

**3 Mark Questions:**

1. Explain Rutherford's gold foil experiment with diagram
2. Write three points of difference between isotopes and isobars.
3. The average atomic mass of a sample of an element 'X' is  $16.2\mu$ . What is the percentage of each isotope  $^{16}\text{X}$  and  $^{18}\text{X}$  in the sample? (At.No. of X =8)
4. Define valency of an element. Find the valency of chlorine and magnesium.
5. i) What is the similarity in the electronic structure of the following set of atoms?  
Lithium, sodium and potassium.  
ii) Which of the above element is most reactive and why?



## 1. Model-Making Activity

**Activity:** Create a model of an atom using clay, beads, or thermocol balls.

### Questions:

- How many protons, neutrons, and electrons are present in your model?
- How are electrons arranged in different shells?
- Which atomic model does your structure represent (e.g., Bohr Model of Atom)?
- What are the limitations of this model?

**Activity:** Research applications of atomic structure.

### Questions:

- How is atomic structure used in technology (e.g., electricity, medicine)?
- What role do electrons play in bonding?
- Why is understanding atomic structure important?

# Jindal Adarsh Gramya Bharti Higher secondary School

Session (2026-27)

## CLASS IX

### SUBJECT: {SOCIAL SCIENCE}



- Students are required to research on the topic allotted to them. They also need to Gather information and other data related to their project.
- Kindly refer to the details mentioned below :-**Enrichment Activity/Project guidelines-**

#### ENRICHMENT ACTIVITY / PROJECT GUIDELINES

1. It is a mandatory for all.
2. Each student has to take any 4 project.
3. Project can be submit in handmade file.
4. Number of pages expected in the project: **20 pages**
  - Cover page (Topic, Name, Class, Section and Roll No.)
  - Index
  - Acknowledgement
  - Introduction
  - Causes
  - Effects
  - Mitigation strategies
  - Case study
  - Conclusion
  - Bibliography
  - Glossary (Optional)
5. Support your project with suitably labelled pictures, maps, graphs, Interesting facts, interviews conducted, questionnaire etc.



#### S.no:- Name of the topic:-

1.	Earthquake	
2.	Cyclone	
3.	Flood	
4.	Drought	
5.	Fire	
6.	Road, Rail & Air traffic Accidents	
7.	Terrorist Attack ( including recent incident)	
8.	Industrial & Chemical Accidents.( Include recent incident in Chhattisgarh)	

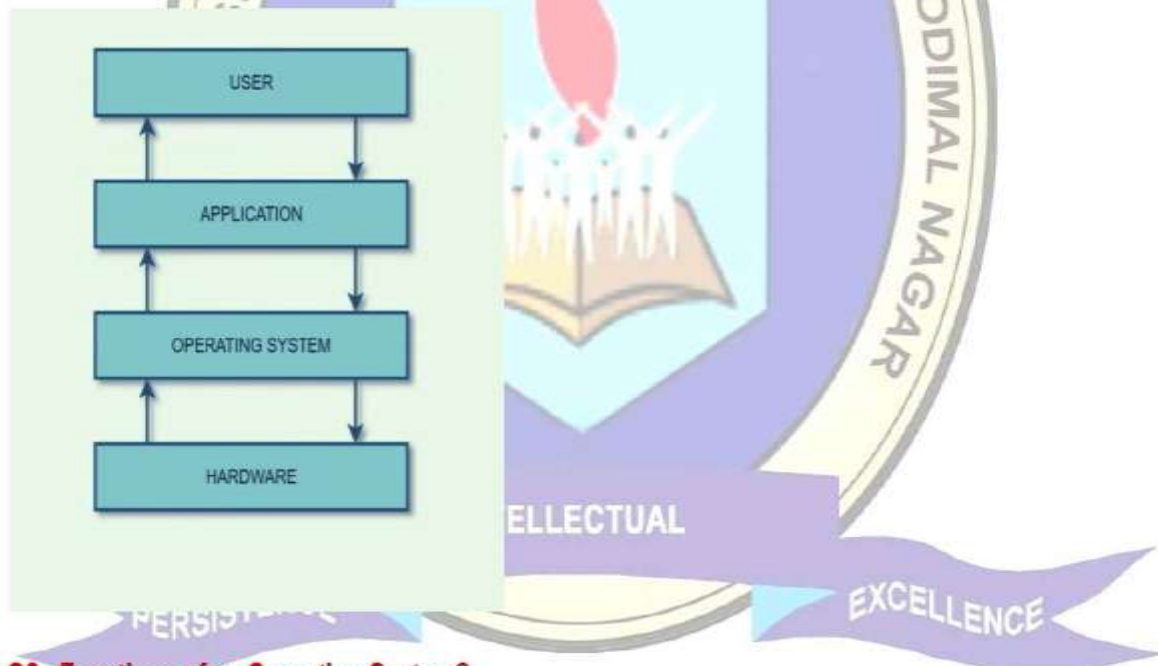
{Note :- complete your previous chapter in the fair copy.}

# CLASS - 9<sup>TH</sup> SUBJECT - IT

## PART- A - ICT Skills (Chapter - 8 Operating System)

### Q1. What is an Operating System (OS)?

An Operating System (OS) is a system software that acts as a bridge between the user and the computer hardware. It manages the execution of application programs and provides a convenient and efficient environment for users to work.



### Q2. Functions of an Operating System?

1. Resource Management • Manages hardware resources like CPU, memory, and devices • Allows multiple users/programs to use resources efficiently reduces system load.
2. Process Management • Handles creation, execution, and termination of processes • Uses CPU scheduling to decide which process runs first.

3. Memory Management • Allocates and deallocates memory to programs • Ensures efficient use of RAM. 4. File Management • Organizes and manages files and folders • Handles storage, retrieval, and security of data.

### Functions of an Operating System



### Q3. Advantages and disadvantages of Network Operating System?

#### Advantages of Network Operating System:

1. Highly stable centralized servers.
2. Security concerns are handled through servers.
3. New technologies and hardware upgradation are easily integrated into the system.

#### Disadvantages of Network Operating System:

1. Servers are costly.
2. User has to depend on a central location for most operations
3. Maintenance and updates are required regularly.

Examples of Network Operating System:  
Microsoft Windows Server 2003, Microsoft Windows Server 2008, UNIX, Linux, Mac OS X,