



**H M SENIOR SECONDARY SCHOOL  
SHEETLA COLONY, GURUGRAM  
CLASS – XII  
SESSION – 2026-27  
SUMMER HOLIDAY HOMEWORK**

**SUCCESS DOESN'T COME FROM  
WHAT YOU DO OCCASIONALLY, IT  
COMES FROM WHAT YOU DO  
CONSISTENTLY.**

The Holiday Homework is designed by the mentors  
in the most interesting manner. It is a medium for  
you all to achieve the motto of

**"FUN AND LEARN"**

The activity based assignments will foster  
curiosity, develop creativity, enhance knowledge  
and instill the joy of learning among you all.

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## ENGLISH

**Q 1. Read the passage and based on your understanding of the passage answer the questions given below:**

1. India has never subscribed to the doctrine of militarism and war in her history. Here war was never treated as an ideal. It was only tolerated as unavoidable and inevitable, and all attempts were made to check it and bring it under control. Despite the frequency of wars in ancient India, despite highly developed military organization, techniques of war and imperialism, and despite the open justification of war as national policy, the heart of India loved pacifisms as an ideal capable of realization. India's symbolic role was that of a peacemaker and it sincerely pinned its faith on the principle of 'Live and let live'. At least philosophically, India's intelligence supported the cause of peace not only in national affairs but in international affairs also. All the great seers of the yore visualized the unity of life, permeating all beings, animate or inanimate, which ruled out killing and suicidal wars.

2. This doctrine of philosophical pacifisms was practiced by ancient Aryans is, no doubt, a question of controversial nature. Certainly, the great Indian teachers and savants stuck to this doctrine tenaciously and in their personal life they translated it into practice and preached it to masses and even to princes of military classes.

3. Another culture of those times, the existence of which has been proved by the excavations of *Mohanjo-Daro*, also enunciated the doctrine of pacificism and friendship to all. Strangely enough, the Indus Valley civilization has revealed no fortification and very few weapons.

4. Ahimsa or the doctrine of non-violence in thought, speech and action assumed a gigantic importance in the Buddhist and Jain period. By a constant practice of this virtue, man becomes unassailable by even wild beasts, who forgot their ferocity the moment they entered the circumference of his magnetic influence. The monks and nuns of these churches were apostles of peace, who reached every nook and corner of the world and delivered the message of love to war-weary humanity. The greatest votary was the royal monk *Ashoka*, who in reality was responsible for transforming Ahimsa as an act of personal virtue, to Ahimsa as an act of national virtue.

5. Many a historian recounting the causes of the downfall of the *Mauryas*, hold the pacific policy of *Ashoka* which had eschewed the aggressive militarism of his predecessors, responsible for an early decay of the military strength of the state and its consequent disintegration, leading to the rise of *Sungas*, *Kanvas* and *Andhras*. But the fault lies with the weak successors of *Ashoka*, who could not wield the weapon of non-violence with a kill and efficiency which required the strength of a spiritual giant like *Ashoka*. They failed due to their subjective weakness: Pacifism itself was no because of their failure.

6. Besides the foregoing philosophical and religious school of thought, even many political authorities gave their unqualified support to the cause of pacifism. They recognized the right of rivals to exist, not mainly as enemies, but as collaborators in the building of a civilization operation. Thus, for centuries, in the pre-*Mauryan* India, scores of small independent republics existed and flourished without coming in clash with each other.

7. About *Kautilya*, the much-maligned militarist, and the so-called Machiavelli of India, He thinks that the object of diplomacy is to avoid war.

8. The Mahabharata observes in the connection, "A wise man should be content with what can be obtained by the expedients of conciliation, gift and dissention." It denounces the

warring world of men by comparing it to a dog-kennel. "First there comes the wagging of tails, then turning of one round to other, then the show of teeth, then the roaring and then comes the commencement of the fights. It is the same with men; there is no difference whatever." *Yajnavalkya* adds: „War is the last expedient to be used when all others have failed." Likewise, *Sri Krishna* who's *Bhagwad-Gita* has been styled by some as „a song of the battle", should not be considered out and out militarist. When all the three expedients were exhausted, then the fourth was resorted to alone.

9. All possible avenues of peace such as negotiation, conciliation through conference, meditation and so on, were explored before the war was resorted to. This proves that the heart of ancient India was sound, and it longed for peace, although war also was not treated as an anathema, which was to be avoided as far as possible.

1.1 Answer each of the questions given below: (to be done in notebook)

- a. How was war treated in India?
- b. Describe India's preparedness for war despite their belief in Pacifism.
- c. How did the Aryans practice the Doctrine of Pacifism?
- d. What is Ahimsa?
- e. What is the meaning of co-existence with rivals?
- f. Why should *Bhagwad-Gita* not be considered as "A song of the battle"?
- g. What kind of unity did all the seers visualize?

1.2. Pick out the words/phrases from the passage which are similar in meaning to the following:

(i) Express in definite and clear terms (para 3) (ii) defensive wall (para 3)

Q 2. In India, the urban poor live in sub-human conditions in slums. Write an article on 'Possible Steps to Deal with Slums in India'. You are Kundan or Kashish, City Reporter of a newspaper. (Word limit: 120 – 150)

(To be done in notebook)

Q 3. Admission to higher education is becoming increasingly difficult with cut-off lists for admission to universities and colleges constantly rising. Write a letter in about 120 – 150 words to the editor of a national newspaper voicing your concern over the issue. (To be done in notebook)

Use hints to write:

- \* give instances of cut-off lists going up, in some cases touching 100% marks
- \* say how it will make higher education go beyond the reach of the majority of students who score less
- \* suggest what should be done to ensure that the benefits of higher education opportunities.

Q 4. The NCC Air Wing of your school is organizing a visit to an Air Force Station in your area. As the Senior Under Officer of the wing, write a notice in not more than

50 words for all the cadets informing them about the visit. (To be done in notebook)

In your notice you should include the following information:

- \* date, time and place of the visit
- \* purpose of the visit e.g. air show, flying, study aircraft, interaction with Air Force personnel (Choose one only)
- \* Special instructions e.g. packed food and water, venue and time of reporting for the visit, compulsory participation (Choose one only)

Competency Based Questions and Long Answer type Questions. (To be done in notebook)

Q 5. Language is the road map of a culture; it tells you where its people come from and where they are going. Justify this statement with reference to how Hamel demonstrated his last lesson in the story.

Q 6. The story "The Rattrap" focuses on human loneliness and the need to bond

- with others. Discuss. Q7. Comment on the title "My Mother at Sixty-Six."
- Q8. The life of bangle makers of Ferozabad was full of obstacles which forced them to lead a life of poverty and deprivation. Discuss with reference to Lost Spring.
- Q9. How does the story "The Rattrap" highlight the importance of community over isolation? Comment.
- Q 10. Imagine the child who bullies Douglas and throws him into the pool, reads this story and realizes his mistake and decides to pen down his own feelings of guilt in the form of diary

## MATHS

ALL QUESTIONS ARE COMPULSORY.

Q1) If a matrix  $A = \begin{bmatrix} \cos x & -\sin x \\ \sin x & \cos x \end{bmatrix}$

Then  $A + \text{transpose of } A = I$  if the value of  $x$  is (a)  $\pi/6$  (b)  $\pi/3$  (c)  $\pi$  (d)  $3\pi/2$

Q2) If  $A$  is matrix of order  $m \times n$  and  $B$  is a matrix such that  $A$  (transpose of  $B$ ) and (transpose of  $B$ )  $A$  are both defined, the order of Matrix  $B$  is

- (a)  $m \times m$  (b)  $n \times n$  (c)  $n \times m$  (d)  $m \times n$

Q3) If matrix  $A = \begin{bmatrix} x & y \\ Z & -x \end{bmatrix}$  is such that  $A^2 = I$  then

- (A)  $1 + x^2 + YZ = 0$  (c)  $1 - x^2 - yz = 0$   
 (B)  $1 - x^2 + YZ = 0$  (d)  $1 + x^2 - YZ = 0$

Q4) If  $\begin{vmatrix} x & 2 \\ 18 & x \end{vmatrix} = \begin{vmatrix} 6 & 2 \\ 18 & 6 \end{vmatrix}$  Then  $x$  is equal to

- (a) 6 (b) none of these (c) -6 (d) 0

Q5) If matrix  $A = \begin{bmatrix} -2 & 0 \\ 0 & 0 \end{bmatrix}$

$$\begin{bmatrix} 0 & -2 & 0 \\ 0 & 0 & -2 \end{bmatrix}$$

Then value of  $|\text{adj } A|$  is

- a) 64 (b) 16 (c) 0 (d) -8

Q6) Each question consists of two statements namely assertion  $A$  and reasoning  $R$  for selecting the correct answer use the following code

- (a) Both assertion and reasoning are true and reason  $R$  is a correct explanation of assertion  $A$   
 (b) Both association and reason are true but reason is not a correct explanation of assertion  
 (c) Assertion is true and reason is false  
 (d) Assertion is false and reason is true

$A$  -  $\sqrt{3}$  is an irrational number  
 $R$  - the sum of rational number and an irrational number is an irrational number

Q.7. Find the derivative of  $\cos(\log x + \sin x)$ .

Q.8. Find the derivative of  $\sin^{-1} x^2 + \tan^{-1}(\cos x)$ .

Q.9. Find the second derivative of  $1/\log x$ .

Q.10 If matrix  $A = \begin{bmatrix} 2 & -1 & 3 \\ -4 & 5 & 1 \end{bmatrix}$

And  $B = \begin{bmatrix} 2 & 3 \\ 4 & -2 \end{bmatrix}$

$\begin{bmatrix} 1 & 5 \end{bmatrix}$  then Find  $AB$

Q.11. If matrix  $A = \begin{bmatrix} 3 & 7 \\ 8 & 9 \end{bmatrix}$

Find the cofactor of each element.

Q.12. If matrix  $A = \begin{bmatrix} 4 & 5 \\ 3 & 4 \end{bmatrix}$

Find the minor of  $a_{12}$ ,  $a_{21}$

Q.13 If length of three sides of a trapezium other than base are equal to ten centimeters then

find the area of the trapezium when it is maximum.

Q.14 Prove that the parameter of a right angle triangle of given hypotenuse is maximum when the triangle is isosceles.

Q.15 Show that the rectangle of maximum area that can be inscribed in a circle of three years is a square of side root 2r.

## COMPUTER SCIENCE

NOTE: Do all questions in fair notebook.

Q1. What are Mutable and Immutable data types? List them.

Q2. Difference between Implicit and Explicit type conversion

Q3. Which statement will give you output as TRUE from the following:

a) `>>> not -5`

b) `>>> not 5`

c) `>>> not 0`

d) `>>> not (5-1)`

Q4. Consider the following statements given below and give the output:

```
pride="#G20 Presidency"
```

```
print(pride[-2, 2, -2])
```

Q5. Which of the following statements gives an error during execution of the code?

```
tup = (20, 30, 40, 50, 80, 79)
print(tup)           #Statement 1
print(tup[3]+50)    #Statement 2
print(max(tup))     #Statement 3
tup[4]=80           #Statement 4
```

Q6. Give the output of the following:

```
import random
myNumber=random.randint(0,3)
COLOR=["YELLOW", "WHITE", "BLACK", "RED"]
for I in range(1,myNumber):
    print(COLOR[I],end="*")
print()
```

Q7. a)

What will be the output of the following statement:

```
print(3-2**2**3+99/11)
```

b) Fill in the blank for missing statement, if the output produced is 110..

b=100

def test(a):

\_\_\_\_\_ #missing statement

b+a

print(a,b)

test(10)

print(b)

Q8 & Q9 are ASSERTION and REASONING based questions. Mark the correct choice as:

a) A is true but R is false.

b) A is false but R is true.

c) Both A and R are true but R is the correct explanation of A.

d) Both A and R are true but R is not the correct explanation of A.

Q8. Assertion(A): List is an immutable data type.

Reason(R): When an attempt is made to update the value of an immutable variable, the old variable is destroyed and a new variable is created by the same name in memory.

Q9. Assertion(A): Python standard library consists of various modules.

Reason(R): A function in a module is used to simplify the code and avoids repetition.

Q10. Write a Python script that traverses through an input string and prints its characters in different lines- two characters per line.

Q11. Write a Python statement to declare a Dictionary named ClassRoll with Keys as 1, 2, 3 and corresponding values as 'Reena', 'Rakesh', 'Zareen' respectively.

Q12. If a is (1,2,3)

- What is the difference (if any) between a\*3 and (a,a,a)?
- Is a\*3 equivalent to a+a+a?
- What is the remaining of a[1:1]?
- What is the difference between a[1:2] and a[1:1]?

Q13. Explain Bubble and Insertion Sorting with algorithm?

Q14. What will be the output of the following code:

a)

```
S = "LOST"
L = [10, 21, 33, 4]
D={}
for I in range(len(S)):
    if I%2==0:
        D[L.pop()] = S[I]
    else:
        D[L.pop()] = I+3
for K,V in D.items():
    print(K,V,sep="**")
```

b) x = 56.236 print("%.2f"%x)	c) s="I am the king of my own kingdom" T=s.partition('o') print(T[0],"-",T[1],"-",T[2],"-")
d) y=str(123) x="hello"*3 print(x,y) x="hello"+"world" y=len(x) print(y, x)	e) x="hello" +\ "to Python" +\ "world" for char in x: y =char print(y,':',end=" ")
f) x="hello world" print(x[:2], x[:-2], x[-2:]) print(x[6], x[2:4]) print(x[2:-3], x[-4:-2])	g) my_dict={"name": "Aman", "age": 26} my_dict['age']=27 my_dict['address']="Delhi" print(my_dict.items())

Q15. Name the function/method required to

- check if a string contains only uppercase letters
- gives the total length of the list.

Q16. What do you understand by local and global scope of variables? How can you access a global variable inside the function, if the function has a variable with same name?

Q17. Predict the output:

a) def Call(P = 40, Q = 20): P = P + Q Q = P - Q print(P, '@', Q) return P R = 200 S = 100 R = Call(R, S) print(R, '@', S) S = Call(S) print(R, '@', S)	b) Find error. Correct code & show output.  def Tot(Number) #Method to find Total Sum = 0 for C in Range (1, Number + 1): Sum += C RETURN Sum print (Tot[3]) #Function Calls print (Tot[6])
c) a = 10 def call():	d) V = 25 def Fun(Ch):

<pre> global a a = 15 b = 20 print(a) call() </pre>	<pre> V = 50 print(V, end = Ch) V *= 2 print(V, end = Ch) print(V, end = "**") Fun("!") print(V) </pre>
---	---

Q18. Write the Python code for given programs:

1. Write a program to print one of the words negative, zero or positive, according to whether variable x is less than zero, zero or greater than zero, respectively.
2. Program to calculates and prints the number of seconds in a year.
3. Program that prints a table in two columns-table that helps converting miles into kilometres.
4. Code that prints the longest word in a list of words.
5. Program that creates a list of all the integers less than 100 that are multiples of 3 and 5.
6. Program that creates a tuple storing first 9 terms of Fibonacci series.
7. Write a function to calculate volume of a box with default values for its parameters. Your function should have following input parameters:

a) length of box            b) width of box            c) height of box

8. Write a function that receives two numbers and generates a random number from that range. Using this function, the main program should print three numbers randomly.

9. Create a module lengthconversion.py that stores functions for various lengths conversions  
Example: miletokm()

Kmtomile()

Feettoinches()

Help() should display proper information.

NOTE: Complete the PYTHON PRACTICAL BOOK – pages 2 to 4, 7 to 15, 17 to 19

#### Case study

Q.16 Three schools DPS, ,CVC and KVS decided to organize affair for collecting money for helping the flood victims this old handmade fans mats and plates from recycled material at a cost of 25 rupees hundred rupees 50 each respectively the number of article sold are given us

<u>School/article.</u>	<u>DPS</u>	<u>CVC</u>	<u>KVS</u>
Handmade fans.	40	25	35
Mats	50	40	50
Plates	20	30	40

What is the total money collected by the school

DPS (a)700 (b)

7000

(c)

6,125

(ii) Is that total amount of money collected by school CVC and KVS

(a) 1400 (b) 15725 (c) 21000 (d) 13125

(iii) How many articles are sold by three school

a) 230 b) 130 c) 430 d) 330

Q.17 Mr Shashi, who is an architect, designs a building for a small company. The design of window on the ground floor is proposed to be different than other floors. The window is in the shape of a rectangle which is surmounted by a semi-circular opening. This window is having a perimeter of 10 m

# CHEMISTRY

## INSTRUCTIONS:

- Question-Answer assignment is to be done in chemistry note book.
- Practical work is to be done in lab manual.
  - Project work is to be done in project file.

## REMEMBER

- Neatness and presentation are common parameters for most of the activities assigned.
- Please maintain the quality of work done.
- Complete and submit the holiday homework by 1st July. Note down late submission after this date is not acceptable and you will be losing the marks/grades for the same if you miss the date.
- Holiday homework will be assessed on certain parameters and marks/grade will be awarded accordingly.



## Chapter 1: Some Basic Concepts of Chemistry

1. If 4 g of NaOH dissolves in 36 g of H<sub>2</sub>O, calculate the mole fraction of each component in the solution. Also, determine the molarity of solution (specific gravity of solution is 1 g ml<sup>-1</sup>)
2. A sample of a compound contains 4.8 g of oxygen and 3.2 g of sulfur. Determine the empirical formula.
3. What is the law of multiple proportions? Explain with an example.
4. If 2.0 g of H<sub>2</sub> reacts with 16.0 g of O<sub>2</sub> to form water, identify the limiting reagent and calculate the amount of water formed.
5. If 500 mL of a 5 M solution is diluted to 1500 mL, what will be the molarity of the solution obtained?
6. Calculate the mass of sodium carbonate required to make 250 mL of 0.1 M solution.

## Chapter 2: Structure of Atom

7. According to de Broglie, the matter should exhibit dual behaviour, that is, both particle and wave like properties. However, a cricket ball of mass 100 g does not move like a wave when it is thrown by a bowler at a speed of 100 km/h. Calculate the wavelength of the ball and explain why it does not show wave nature.
8. Calculate the wavelength of light emitted when an electron in a hydrogen atom falls from n=3 to n=1.
9. Define quantum numbers. Give the significance of each.
10. What is the difference between orbit and orbital?.
11. What is Heisenberg's Uncertainty Principle? Derive its expression.
12. Calculate the energy of an electron in the second orbit of hydrogen atom.

DO THE ASSIGNED EXPERIMENTS IN LAB MANUAL.

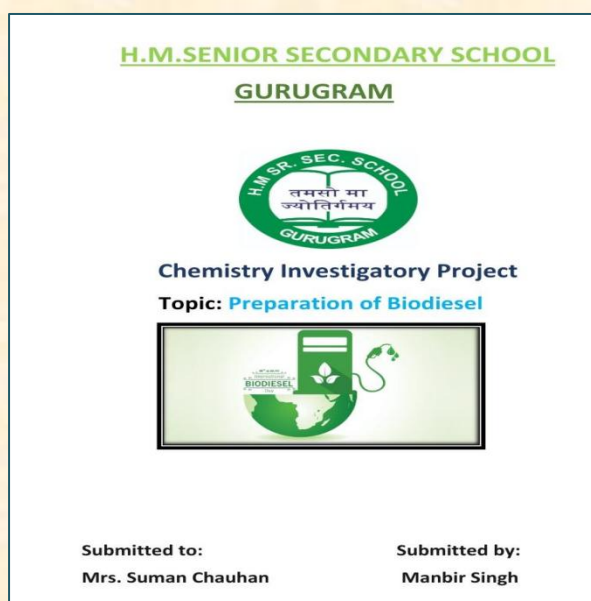


PREPARE AN INVESTIGATORY PROJECT INDIVIDUALLY

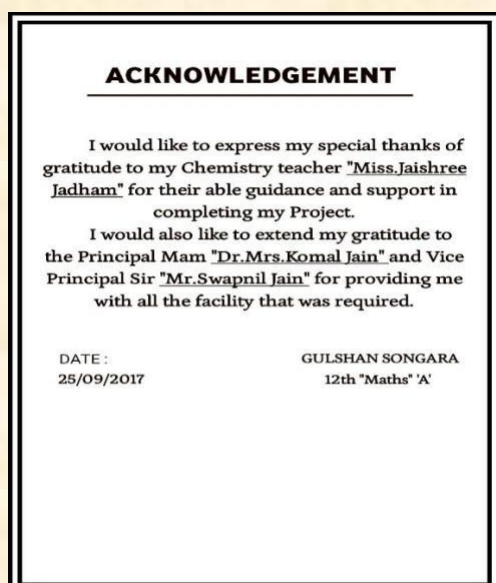
- CHOOSE ONE TOPIC OF YOUR CHOICE ANF GET IT APPROVED FROM YOUR SUBJECTTEACHER.
- RESEARCH ON THAT TOPIC THEORTICALLY AND PRACTICALLY AND PREPARE A REPORT ON THAT.

REPORT WILL CONSIST FOLLOWING THINGS:

- FRONT PAGE(SAMPLE IS GIVEN BELOW)



- ACKNOWLEDEMENT ( SAMPLE IS GIVEN BELOW)



- CERTIFICATE (SAMPLE IS GIVEN BELOW)



- RESEARCH  
CONTENT
- BIBLIOGRAPHY

## PHYSICS

Theme: “Physics Around Us”

Instructions

- Attempt all questions creatively and neatly.
- Do Written assignment in Physics Notebook, Lab Manual work in Physics Manual and activity work in activity file.
- Draw diagrams wherever required.
- Use real-life examples and applications.
- Show proper reasoning in competency-based and critical-thinking questions.

---

### SECTION A – ACTIVITY BASED LEARNING

#### 1. Home Investigation Activity

Observe any 5 electrical appliances at home and complete the table:

Appliance Voltage Rating Current Rating Power Consumed Safety Feature Used

Reflection Questions

1. Why are high-power devices connected using thicker wires?
2. What happens if current exceeds the safe limit?
3. Explain how electric current affects electricity bills.

---

#### 2. DIY Capacitor Activity

Create a simple capacitor using:

- Aluminium foil ,Paper/plastic sheet ,Battery ,LED

Write:

- Aim
- Materials used
- Procedure

- Observation
- Conclusion
- Application Question
- Where are capacitors used in real life? Explain any two applications.

---

- **SECTION B – COMPETENCY-BASED QUESTIONS**

Chapter 1: Electric Charges and Fields

Q1.

- A plastic comb rubbed with dry hair attracts small paper bits.
  - Answer the following:
    - a) Why does the comb become charged?
    - b) Which type of charge appears on the comb?
    - c) Why are paper bits attracted even though they are neutral?
    - d) Mention one real-life application of electrostatic force.
- 

Q2.

- Two identical metallic spheres carry charges  $+4 \mu\text{C}$  and  $-2 \mu\text{C}$  respectively. They are touched together and separated.
  - Find:
    - a) Final charge on each sphere
    - b) Nature of force between them after separation
    - c) Why charge is conserved in this process?
- 

Q3.

- A student says:
    - a) “Electric field lines can intersect each other.”
    - b) Do you agree? Justify your answer logically.
- 

- **SECTION C – APPLICATION-BASED QUESTIONS**

- Chapter 2: Electrostatic Potential and Capacitance

Q4.

Mobile phones and cameras use capacitors.

Explain:

- a) Why capacitors are important in electronic devices
  - b) How charging and discharging occur
  - c) Why dielectric materials are used in capacitors
- 

Q5.

During thunderstorms, lightning conductors protect buildings.

Answer:

- a) On which principle does a lightning conductor work?
  - b) Why are pointed ends used?
  - c) Why must the conductor be connected to Earth?
- 

Q6.

A parallel plate capacitor has plate area doubled while distance remains same.

Predict:

- a) Effect on capacitance
  - b) Effect on charge stored
  - c) One practical application where large capacitance is needed
- 

**SECTION D – CRITICAL THINKING QUESTIONS**

Chapter 3: Current Electricity

Q7.

Why are birds sitting on high-voltage wires not electrocuted, whereas humans touching the same wire may die?

Explain scientifically.

---

Q8.

A student replaces the fuse wire in a circuit with a thick copper wire.

- a) Why is this dangerous?
  - b) What property should a fuse wire have?
  - c) Suggest safer alternatives used in modern homes.
- 

Q9.

LED bulbs consume less electricity than filament bulbs.

Using principles of current electricity, explain:

- Why LEDs are more efficient
  - Why less heat is produced
  - How this helps in energy conservation
- 

#### SECTION E – ASSERTION & REASONING

Q10.

Assertion:

Electric field inside a conductor is zero.

Reason:

Free charges inside a conductor rearrange themselves.

Choose:

- A. Both A and R are true and R is correct explanation
  - B. Both A and R are true but R is not correct explanation
  - C. A is true but R is false
  - D. A is false but R is true
- 

Q11.

Assertion:

Capacitance increases when dielectric is inserted.

Reason:

Reason:

Dielectric reduces effective electric field between plates.

Choose the correct option.

---

#### SECTION F – CASE STUDY BASED QUESTIONS

Case Study 1: Electric Car Charging

Electric vehicles use batteries, charging circuits, capacitors and current control systems.

Answer:

1. Why is current control important during charging?
  2. How do capacitors help in electric circuits?
  3. Why are thick wires used in charging stations?
  4. Suggest one environmental advantage of electric vehicles.
- 

Case Study 2: Static Electricity in Winter

During winter, woollen clothes often produce crackling sounds and attract dust.

Questions:

1. Why does static charge develop more in dry weather?
  2. Why do synthetic clothes attract more dust?
  3. Suggest methods to reduce static electricity at home.
-

### Option C – Physics Model

Make any one:

- Electroscope
- Simple capacitor
- Series and parallel circuit model

Write the scientific principle involved.

### PHYSICS LAB MANUAL WORK WRITE FOLLOWING PRACTICALS IN PHYSICS LAB MANUAL. SECTION–A

#### List of Experiments

1. To determine resistivity of two / three wires by plotting a graph for potential difference versus current.
2. To verify the laws of combination (series) of resistances using a meter bridge.
3. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
4. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

WRITE FOLLOWING ACTIVITIES IN ACTIVITY FILE.

#### List of Activities

1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
2. To assemble the components of a given electrical circuit.
3. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

### SECTION-B

WRITE FOLLOWING PRACTICALS IN PHYSICS LAB MANUAL.

#### List of Experiments

- 1 To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length.
- 2 To find the focal length of a convex mirror, using a convex lens.
- 3 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
- 4 To draw the I–V characteristic curve for a p-n junction diode in forward and reverse bias.

WRITE FOLLOWING ACTIVITIES IN ACTIVITY FILE.

#### List of Activities

- 1 To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
- 2 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
  - 2 To observe diffraction of light due to a thin slit.

## BIOLOGY

1. If a habitat contains 20 animal species and 20 plant species, is it diversity or biodiversity?
2. Define the following:

1. Phylum
2. Class
3. Order
4. Genus

3. State the differences between flora, fauna, and vegetation.
4. Define the following terms- Metabolism, Growth and Development.

5. What advantages does the five-kingdom classification have over the two-kingdom classification?
6. Why are cyanobacteria used in agricultural fields for crop improvement?
7. Name the eukaryotic kingdoms in the five-kingdom classification proposed by Whittaker.
8. State the uses of heterotrophic bacteria and archaeobacteria which are economically important.
9. The chemosynthetic bacteria are autotrophic or heterotrophic?
10. What is the role of fungi in our daily lives?

# Make a Herbarium, using different plants, along with their common names, biological names and the economic uses.

# Make a project on given topic, the project should be in minimum 10 to 15 pages. (Topics already given in class individually)

NOTE: Learn all chapters of 'Human Physiology' unit and complete your notebook also.

## POLITICAL SCIENCE

Political Science equips students with an understanding of the political institutions and laws that govern all businesses function. It also sharpens students' understanding of organizational dynamics and human relations, and hones their writing, communication, and statistical skills.

General Instructions:

1. All questions are necessary.
2. Do all questions in neat and clean handwriting.

Q.1. Given below are two statements:

Statement 1: Nepal was a Hindu Kingdom in the past and then a constitutional monarchy the modern period for many years.

Statement 2: The struggling pro-democracy forces achieved their first major victory in 2006 when the king was forced to restore the house of representatives.

Options

- A. Both statements are true.                      B. Both statements are false.  
 C. Statement 1 is true but statement 2 is false.  
 D. Statement 1 is false but statement 2 is true.

Q.2. The concept of "soft power" in international relations refers to:

- a) Military strength and capabilities.                      b) Economic sanctions and trade restrictions  
 c) Influence and attraction through culture, values, and diplomacy  
 d) Coercion and use of force to achieve foreign policy goals

Q.3. Write a short note on CIS?

Q.4. India conducted its second nuclear test in:

- (a) 1972    (b) 1985                      (c) 1986                      (d) 1998

Q.5. What was the role of Mikhail Gorbachev's policies (Perestroika and Glasnost) in the disintegration of the Soviet Union?

Q.6. Define the term Bipolarity in the context of international relations.

Q.7. Under which plan did the USA extend financial support for reviving Europe's economy after the Second World War?

Q.8. South Asia faces several geopolitical tensions, yet nations continue to participate in forums like SAARC and implement treaties like SAFTA. What human and political values drive regional cooperation, despite bilateral disputes?

Q.9. Despite diverse and challenging socio-economic conditions, why do people in South Asian countries overwhelmingly prefer democracy over military or authoritarian rule? What core values does this preference reflect?

Q.10. Explain the pillars of ASEAN.

Q.11. Identify the class of fire and state the immediate emergency response steps. Which type of fire extinguisher would you use, and which primary agency would you alert?

Q.12. What is SOUTH Asia?

Q.13 How would you de-escalate the situation while strictly adhering to perimeter security protocols? Detail the exact standard operating procedures (SOPs) you would follow to handle this potential security incident.

Q.14. Mention any two international organisations of UN or explain their function also.

Q.15. Imagine a scenario where a devastating pandemic or health crisis breaks out globally, disrupting supply chains and threatening public health. Which two specialized agencies of the UN should immediately coordinate to handle this crisis, and what specific function would each perform?

Q.16. The UN Security Council (UNSC) has five permanent members with veto power, which many argue contradicts the democratic values of equality and fairness. Why is there a need to restructure the UNSC to reflect contemporary geopolitical realities?

Q.17. Why was the EU formed? Explain with examples.

Q.18. Describe any four causes of the disintegration of the Soviet Union?

Q.19. Explain India's good and bad relations with its neighbouring countries.

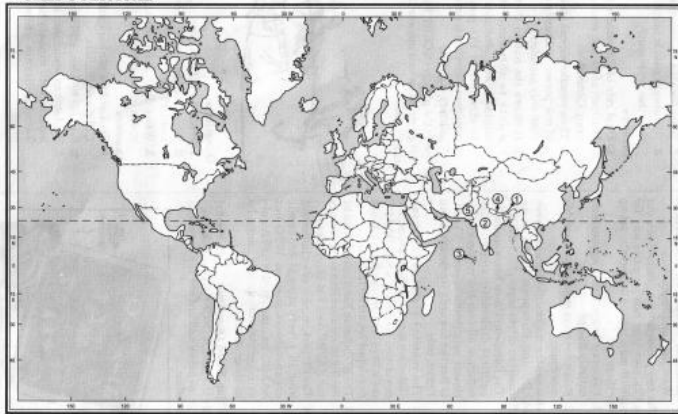
Q.20. Why do SAARC countries not trust each other. Explain.

Q.21. On a political outline map of the world, locate and label the following.

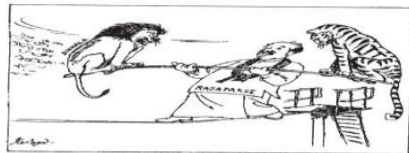
(a) Veto Power Countries

(b) New and old members of EU.

WORLD POLITICAL



Q.22. Study the picture given below and answer the questions that follow.



*The cartoon depicts the dilemma of the Sri Lankan leadership in trying to balance Sinhala nationalism or the Lion and Tamil nationalism or the Tiger while reconciling the two.*

(a) What does the lion of the country represent?

(b) What does the tiger in the cartoon represent?

(c) Which country's problem is depicted here? Which dilemma of the government is represented by this cartoon?

## GEOGRAPHY

Q. 1 Which are the three core points of the definition of the human geography given by Ellen Semple?

Q. 2 "The knowledge about nature is extremely important to develop a technology." Support this statement by giving three examples.

Q. 3 Explain the concept of 'possibilism', with three suitable examples.

Q. 4 Explain how technology indicates the level of cultural development of society.

Q. 5 What is the formula for calculating population density?

Q. 6 What does the term 'growth of population' signify?

Q. 7 What are the 'push' and 'pull' factors responsible for migration?

Q. 8 Name the three components of population change.

Q. 9 What is meant by the natural growth of population?

Q. 10 Who introduced the concept of Human Development?

- Q. 11 What are the four main pillars of human development?  
 Q.12 Which country in the world has the highest sex ratio?  
 Q. 13 What are footloose industries? Give one example.  
 Q. 14 To which sector does medical tourism and outsourcing primarily belong?  
 Q. 15 Define the term technopolies.  
 Q. 16 What is the primary function of the World Trade Organization (WTO)?  
 Q. 17 What are the distinctive features of mixed farming?  
 Q. 18 Why is plantation agriculture typically practiced in tropical and sub-tropical regions?  
 Q.19 Who are called red collar workers?  
 Q. 20 What is nomadic herding?

#### CASE -BASED

Q 1 Read the Case Study given below and answer the questions that follow:

Manufacturing literally means 'to make by hand'. However, now it includes goods 'made by machines'. It is essentially a process that involves transforming raw materials into finished goods of higher value for sale in local or distant markets. Conceptually, an industry is a geographically located manufacturing unit maintaining books of accounts and records under a management system. As the term industry is comprehensive, it is also used as synonymous with 'manufacturing'. When one uses terms like 'steel industry' and 'chemical industry', one thinks of factories and processes. But there are many secondary activities which are not carried on in factories such as what is now called the 'entertainment industry' and 'Tourism industry', etc. So for clarity, the longer expression 'manufacturing industry' is used.

1. What do you understand by the term Manufacturing?
2. "Manufacturing involves value addition." Explain with one suitable example.
3. Name two industries that provide services rather than the production of goods.

Q. 2 Sample Data Based Question

**Table 2.1: Region wise Density of Population**

Region	Population (2018)	Land Area (Km <sup>2</sup> )	Density (P/Km <sup>2</sup> )	World Share (in percentage)
Asia	4,545,133,094	31,033,131	146	59.5%
Africa	1,287,920,518	29,648,481	43	16.9%
Europe	742,648,010	22,134,900	34	9.7%
Latin America and the Caribbean	652,012,001	20,139,378	32	8.5%
Northern America	363,844,490	18,651,660	20	4.8%
Oceania	41,261,212	8,486,460	5	0.5%

- 1 What can you conclude after analyzing the population density of Latin America and the Caribbean?
- 2 Which of the following regions has the highest density of population?
- 3 What can you conclude after analyzing the population density of Latin America and the Caribbean?
- 4 Which of the following regions has the highest density of population?

#### PRACTICAL- WORK

1 Data – It sources and Compilation

3 Data- Processing



28. 3.Assertion (A): In the absence of a Partnership Deed, a partner who has advanced a loan to the firm is entitled to receive interest on it at the rate of 6% p.a. even if the firm incurs a loss.
29. Reason (R): Interest on a partner's loan is treated as a charge against profits, which means it must be paid irrespective of the firm's profit or loss.
30. 4.Assertion (A): Under the Fluctuating Capital Method, the capital account balance can sometimes show a negative (debit) balance.
31. Reason (R): Under the Fluctuating Capital Method, all adjustments regarding drawings, interest on capital, and share of loss are made directly in the Capital Account.
32. Application & High-Order Thinking (HOTS)
33. 1.Managing Past Adjustments
34. Rohan and Sohan are partners sharing profits in the ratio of 2:1. After closing the books of accounts for the year, it was discovered that interest on drawings @ 12% p.a. was completely omitted. The total drawings of Rohan during the year were ₹60,000, which he withdrew regularly at the end of every month. What is the amount of interest on drawings that should have been charged from Rohan?
35. A) ₹7,200.    B) ₹3,600.    C) ₹3,300.    D) ₹3,900
36. Real-World Application: Manager's Commission vs. Partner's Commission
37. Karan, a partner in a firm, is entitled to a commission of 10% of the net profit after charging such commission. The net profit before charging any commission or interest is ₹440,000. During the year, a manager's commission of ₹40,000 was also found to be outstanding. What will be Karan's commission?
38. A) ₹44,000.    B) ₹40,000.    C) ₹36,364.    D) ₹36,300
39. 1.April 2018. Y is entitled to a salary of Rs. 800 per month. Interest is allowed on capitals and is charged on drawings at 6% per annum. Profits are to be distributed equally after the above noted adjustments. During the year X withdrew Rs. 16,000 and Y withdrew Rs. 20,000. The profit for the year before allowing for the terms of the partnership deed came to Rs. 60,000. Assuming the capitals to be fixed, prepare the capital and current accounts of X and Y.
2. Sita and Gita are partners in a firm. Balances of their capital accounts as on 1st April, 2018 were as follows; Sita Rs. 40,000, Gita Rs. 30,000. Sita introduced Rs. 5,000 as an additional capital on 1st October 2018 and Gita introduced Rs. 7,500 as additional capital on 1st November, 2018. Sita drew capital amounting to Rs. 7,500 on 1st January 2019 and Gita withdrew capital amounting Rs. 2,500 on 1st February, 2019. They have further agreed to allow interest on capital @12% per annum. Books of the accounts of the firm are to be closed on 31st March 2019.Calculate interest to be allowed on partner's capital.
40. 3.X, Y and Z are partners in a firm sharing profits in the ratio of 2 : 2 : 1. According to the terms of the partnership agreement, Z has to get a minimum of Rs. 12,000 irrespective of the profits of the firm. Any excess payable to Z account of such a guarantee shall be borne by X.Prepare the profit or loss appropriation account showing the distribution of profits among the partners in case the profits for the year 2017-2018 are
- a. Rs. 50,000 and.    b. Rs. 80,000
4. Ram and Shyam with capitals of Rs. 60,000 and 20,000 respectively on 1stApril, 2018. Net profit (before provisions of deed) for the year ended 31stMarch, 2019 was Rs. 24,000. The provision Deed provides:-
- a. B is entitled to a salary of 6,000 p.a.
- b. Interest on capital is to be allowed @ 6% p.a.
- c. Interest on drawings is to be charged @ 5% p.a.
5. A and B entered into partnership on 1st April, 2014 without any partnership deed. They introduced capitals of Rs. 5,00,000 and Rs. 3,00,000 respectively. On 31st October, 2014, A advanced Rs. 2,00,000 by way of loan to the firm without any agreement as to interest.The Profit and Loss Account for the year ended 31-03-2015 showed a profit of Rs. 4,30,000 but the partners could not agree upon the amount of interest on Loan to be charged and the basis of division of profits. Pass a Journal Entry for the distribution of the Profits between the partners and prepare the Capital A/cs of both the

partners and Loan A/c of 'A'.

Profit and Loss Appropriation Account

6. Sukant and Bijay are partners in a firm sharing profits and losses in the ratio 3:5. Their fixed capitals were ₹10,00,000 and ₹18,00,000, respectively. After the closing of accounts of the year, it was found that interest on capital @10% p.a. as provided in the partnership deed has not been credited to the Capital Accounts of the partners. Pass a necessary journal entry to rectify the error.

7. (premium brought in kind) : Anubhav and Babita are partners in a firm sharing profits and losses in the ratio of 3:2. On April 1, 2015 they admit Deepak as a new partner for 3/13 share in the profits. Deepak contributed the following assets towards his capital and for his share of goodwill. Land Rs. 90,000, Machinery Rs. 70,000 stock Rs. 60,000 and debtors Rs. 40,000. On the date of admission of Deepak, the goodwill of the firm was valued at Rs. 5,20,000, which is not appear in the books. Record necessary journal entries in the books of the firm. Show your calculation clearly. Case (i) Amount of goodwill which was brought in by new partner, is withdrawn by old partner : Case (ii) when the new partner is unable to bring his share of goodwill in cash.

8. (Sacrifice/Gain made by an old partner) : Ashok and Ravi were partners in a firm sharing profits and losses in the ratio of 7:3. They admitted Chander as a new partner. The new profit ratio between Ashok, Ravi and Chander will be 2:2:1. Chander brought Rs. 24,000 for his share of goodwill. Pass necessary journal entries for the treatment of goodwill.

41. 9. Comprehensive Case-Based Scenario

Read the following passage and answer the questions that follow:

Aarav, Ishaan, and Meera started a premium boutique partnership firm on 1st April, 2025. They contributed ₹500,000, ₹400,000, and ₹300,000 respectively.

According to the Partnership Deed:

Meera is guaranteed a minimum profit of ₹80,000 per annum after allowing interest on capital. Any deficiency is to be personally borne by Aarav.

Interest on Capital is allowed at 8% p.a.

Profits and losses are to be shared in the ratio of 2:2:1.

The net profit of the firm for the year ended 31st March, 2026, before providing for interest on capital, was ₹2,56,000.

10. A and B are partners with capitals of Rs. 26,000 and Rs. 22,000 respectively. They admit C as partner with 1/4th share in the profits of the firm. C's brings Rs 26, 000 as his share of capital. Give journal entry to record goodwill on C's admission.

42. Project 1 (Roll no. 1 to 15)

43. The Partnership Blueprint & Performance Analysis

44. Best for: Linking Chapter 2 (Fundamentals) with Practical Application.

45. The Task: Create a hypothetical partnership firm with 2–3 partners doing a business of your choice (e.g., an eco-friendly clothing line, a local quick-service restaurant, or an ed-tech startup).

46. What to Include:

47. Draft a formal Partnership Deed containing realistic clauses (Interest on Capital, Interest on Drawings, Salaries, and a specific Guarantee of Profit clause to one partner).

48. Create an imaginary trail of transactions for the first financial year.

49. Prepare the Profit and Loss Appropriation Account and the Partners' Capital Accounts (showing both Fixed and Fluctuating methods for comparison).

50. Introduce an "omission error" (like forgetting to charge interest on drawings) and show the Past Adjustment journal entry to rectify it.

51. Competency Focus: Understanding legal frameworks, mastering appropriation mechanics, and applying error-rectification skills.

52. Project 2: The Capital Restructuring and Expansion Project (Roll no 16 onwards)

53. Best for: Mastering advanced capital adjustment scenarios (Case 1 and Case 2) often tested in 6-mark board questions.

54. The Scenario: Two partners run an established design studio. On April 1, 2026, they admit a third partner to handle global clients. Along with onboarding the new partner, they decide that the entire firm's capital structure needs to be reorganized to reflect their new profit-sharing ratios.
55. What the Project Files Contain:
56. Phase 1 (The Revaluation Phase): Account for standard adjustments like revaluing computer hardware, writing off bad debts, and creating a Provision for Legal Damages.
57. Phase 2 (The Two-Case Capital Showdown): Have the students divide their project into two alternative endings to show complete mastery of capital adjustments:
58. Alternative A (New partner's capital is the base): Adjust the old partners' capital accounts based on the incoming partner's capital. Show the actual cash brought in or withdrawn by the old partners to bridge the gap.
59. Alternative B (Old partners' adjusted capital is the base): The new partner must bring in proportionate capital equal to 20% of the total combined adjusted capital of the old partners.
60. Phase 3 (The Cash Flow Impact): Draw up the final Bank/Cash Account to show how these adjustments changed the firm's liquidity, followed by the New Reconstituted Balance Sheet.
61. Competency Focus: Advanced algebraic applications in accounting, evaluating capital adequacy, and adjusting accounts via cash or current accounts.
62. 11. Art integrated Activity- Students will prepare Mind Map on:
  - (a) Interest on drawings (Roll no 1 to 15)
  - (b) Interest on Capital (Roll no. 16 onwards)
  - (c) Workmen compensation reserve (Roll no 1 to 15)
  - (d) Investment Fluctuation Reserve (Roll no. 16 onwards)
12. PPT on Methods of valuation of goodwill.
63. Average profit method ( Roll no 1 to 8)
64. Super Profit Method ( Roll no 9 to 18)
65. Capitalisation Method ( Roll no 18 onwards)

## WEB APPLICATION

\*NOTE:- Dear Students solve this assignment in your Web Application Notebook.

### JavaScript

Q1. Answer the following questions: -

- 1) One word answer questions
  - a. JavaScript is developed by \_\_\_\_\_.
  - b. Variable in JavaScript is declared by \_\_\_\_\_ keyword.
  - c. Write the output of the following code: `isNaN(4)`.
  - d. Write the names of the following JavaScript Operators: `&&`, `||`
  - e. Built-in object called \_\_\_\_\_ is used to handle more advanced mathematical functions and constants.
  - f. \_\_\_\_\_ is used to convert string to integer.
- 2) Write any four application of JavaScript. Explain about them also.
- 3) Name any two methods of the `Math ()` object in JavaScript to help perform mathematical calculations.
- 4) Define an “event handler” in JavaScript. Name any 2 commonly used “Event handlers”.
- 5) Sunil has written following code to store subjects in an array and display the total number of subjects in the array. His code is not running properly. Identify and underline the syntax errors in the following code and write the corrected code:

```
function countsubs( )
{
Var Subject =[“Eng” , “Math” , “Science” , “Hindi”];
Document.write(subject.length)
}
```

- 6) Explain the following function with respect to JavaScript:
- a) Substring()                      b) Concat()                      c) shift()                      d) Pop()and push()
- 7) Write a short note :
- a) While loop                      b) Do-while loop
- 8) Explain the following :-
1. Confirm Box
  2. Alert Box
  3. Prompt Box
  4. Object
- 9) What is a Function ? Write a user defined function to display an alert box displaying “ Hard work is the key to Success”.
- 10) Difference between if else and switch statement in JavaScript.

#### COMMUNICATION SKILLS

- 11) What do you mean by active listening? Write four steps of Active listening.
- 12) Write down a situation you faced at school, wherein, you overcame a barrier and practiced active listening.
- 13) Write one sentence of each type — statement, question, exclamatory and order.

#### SELF –MANAGEMENT SKILLS

- 14) What is self-motivation and its types?
- 15) Describe the ways you can make positive thinking a habit in life.
- 16) List the importance of positive thinking. Describe how it can help someone achieve one’s goals?
- 17) Write and explain any five personality traits.
- 18) Explain about all common personality disorders.
- 19) What is OCPD?
- 20) Janvi is feeling extremely nervous and worried because she believes that other people do not like her or are trying to harm her.

- Note: Prepare a folder in computer with your name and do all these programs of Javascript in this folder. Save each program according to their name .

#### JavaScript Program to Check if a number is Positive, Negative, or Zero

1. JavaScript Program to Find the Largest Among Three Numbers
2. JavaScript Program to Check Prime Number
3. JavaScript Program to Find the Factorial of a Number
4. JavaScript Program to Display the Multiplication Table
5. JavaScript Program to Print the Fibonacci Sequence
6. JavaScript Program to Make a Simple Calculator
7. JavaScript Program to Find LCM
8. JavaScript Program to Find the Factors of a Number
9. JavaScript Program to Find Sum of Natural Numbers Using Recursion
10. JavaScript Program to Guess a Random Number
11. JavaScript Program to Convert Decimal to Binary
12. JavaScript Program to Find ASCII Value of Character
13. JavaScript Program to Sort Words in Alphabetical Order
14. JavaScript Program to Replace Characters of a String
15. JavaScript Program to Reverse a String
16. JavaScript Program to Create Objects in Different Ways

17. JavaScript Program to Check the Number of Occurrences of a Character in the String
18. JavaScript Program to Convert the First Letter of a String into UpperCase
19. Practice of the following code of Date objects.

```
Current Time: <span id="txt"></span>
<script>
var today=new Date();
var h=today.getHours();
var m=today.getMinutes();
var s=today.getSeconds();
document.getElementById('txt').innerHTML=h+":"+m+":"+s;
</script>
```

## **BUSINESS ADMINISTRATION**

### **COMPREHENSIVE HOLIDAYS HOMEWORK**

General Instructions for Students:

Part A (Project Work): Must be compiled in an eco-friendly lace folder, neatly handwritten on one side of A4 ruling sheets.

Part B (Art-Integrated Activities): To be done on A3/A4 drawing sheets or digitally as specified.

Part C & D (Competency & Important Question Bank): All questions must be written down along with their detailed answers in your designated Business Studies Home Assignment notebook.

#### **PART A: RESEARCH & INVESTIGATIVE PROJECT WORK**

Choose one of the following two project paths. This assignment directly prepares you for your 40-mark External Board Practical Assessment.

Project 1: Field Audit on the Principles & Techniques of Management (Roll No. 1 to 5)

Objective: To evaluate the execution of classical and scientific management theories in a live enterprise.

Task: Identify a functioning operational unit near your area (e.g., a branded fast-food outlet, a local multi-specialty hospital, a manufacturing workshop, or a busy supermarket). Interview the supervisor/manager and observe operations to track:

The visible application or violation of Fayol's 14 Principles of Management (specifically tracking Scalar Chain, Order, Equity, and Unity of Command).

The application of Taylor's Scientific Techniques (e.g., Method Study, Fatigue Study, and whether they use a Differential Piece Rate Plan or Functional Foremanship with 8 bosses).

Deliverables: A 25–30 page report backed by real observations, questionnaire formats used during interviews, diagrams of workflows, and concrete managerial recommendations for the audited business.

Project 2: Macro-Environmental Footprint Analysis ( Roll no 6 to 11)

Objective: To trace how shifting dynamic forces outside a business control its destiny.

Task: Choose a fast-evolving modern industry (e.g., the Electric Vehicle industry, Quick-Commerce

delivery platforms like Blinkit/Zepto, or the shifting AI-driven EdTech market).

Analysis Parameters: Map out how the Five Dimensions of the Business Environment impact this sector:

Economic: Inflation, interest rates, disposable income shifts.

Social: Structural changes in consumer lifestyle, preferences, and ethics.

Technological: Digital infrastructure updates, automation, software disruptions.

Political: Government stability, ideological stances toward specific industries.

Legal: Statutory acts, safety guidelines, and consumer protection restrictions.

Deliverables: Analytical charts, timelines tracking legislative changes affecting the industry, recent corporate case clippings, and an impact summary matrix.

## **PART B: ART-INTEGRATED & EXPERIENTIAL ACTIVITIES**

Complete all activities listed below to merge core economic management logic with creative visual communication.

Activity 1: The "Functional Foremanship" Architectural Layout ( Roll no 1 to 3)

Concept Grounding: Based on Taylor's scientific breakdown where a worker is guided by 8 specialized bosses (4 under Planning, 4 under Execution).

Art Integration: Design an organizational factory layout blueprint or architectural structural chart. Use distinct colors, vectors, or hand-drawn structural icons to visually bifurcate the Planning Cell (Route Clerk, Instruction Card Clerk, Time & Cost Clerk, Disciplinary) from the Production Cell (Speed Boss, Gang Boss, Repair Boss, Inspector). Show clear operational workflow lines converging down on a single central worker icon to highlight how specialization functions.

Activity 2: The "Scalar Chain vs. Gang Plank" Narrative Comic Strip ( Roll no 4 to 8)

Concept Grounding: Based on Fayol's formal communication line and the emergency bypass mechanism.

Art Integration: Draw a multi-panel visual story or comic strip on an A4 sheet.

Scenario: A major operational emergency arises at the base floor of an enterprise (e.g., a critical machine breakdown or an unexpected fire hazard in Section D).

Panels 1–3: Show the catastrophic time delay when worker D attempts to pass information up through the rigid structural ladder of the Scalar Chain to reach Section O.

Panels 4–6: Illustrate the alternative scenario where Gang Plank is activated safely at the same managerial tier, resolving the crisis immediately. Use speech bubbles, color grading for tension, and clear structural labels.

Activity 3: The "Motivation Hierarchy Pyramid" Pop-Up Model ( Roll no 9 onwards)

Concept Grounding: Based on Abraham Maslow's Need Hierarchy Theory under the Directing function.

Art Integration: Build a 3D structural pyramid model (using cardstock, origami folds, or a detailed multi-layered 2D pop-up layout). Divide the pyramid into the 5 human needs starting from the base.

For each tier, instead of just writing the textbook terms, draw everyday real-world corporate corporate indicators:

Physiological: Basic salary check/bread basket icons.

Safety: P.F. document/job security lock icons.

Affiliation: Office cafeteria interaction/friendship icons.

Esteem: Job title plaque/trophy icons.

Self-Actualization: A growth tree or personal achievement milestone icon.

### PART C: COMPETENCY-BASED QUESTIONS (HOTS)

Answer the following analytical, application, and case-based problems with clear logical points.

#### 1. Case-Based & Application Scenarios

##### Question 1

The Board of Directors of "Ananya Eco-Tech Ltd." (an industrial manufacturing unit in Gurugram) meets weekly to analyze resource utilization matrices and map long-term survival metrics. Concurrently, the regional medical superintendent of a local charitable trust hospital structures duty rosters for emergency staff. At the same time, the operations supervisor at a retail hypermarket monitors cash counters. Although their end products, target audiences, and operational environments are fundamentally different, the core pattern of what these leaders do day-to-day to integrate efforts is identical.

Identify, name, and explain the specific characteristic of management highlighted in the above corporate scenario. State three other distinct characteristics of management that are not mentioned above.

##### Question 2

Rajat functions as a "Regional Manager" at XYZ Logistics Enterprise. His daily schedule involves translating the strategic expansion blueprints designed by the Chief Executive Officer into actionable departmental targets. He ensures his team coordinates perfectly, evaluates individual performance benchmarks, and cooperates across different operational zones to minimize waste.

Identify the precise managerial level at which Rajat operates. Based on your identification, state any four critical organizational functions he is legally and operationally bound to perform in this capacity.

##### Question 3

The operations floor manager at an automotive assembly line observed that assembly line workers routinely experienced physical exhaustion and dropping productivity in the latter half of their shifts. He initiated an exhaustive study using video recording to analyze every movement. By shifting the position of the raw material trays and introducing two structured 15-minute relaxation intervals at scientifically calculated times, he eliminated unnecessary bending movements and successfully restored daily output levels.

Task: Pinpoint and explain the two specific techniques of Scientific Management pioneered by F.W. Taylor that the floor manager applied to optimize operations here.

##### Question 4

A leading consumer goods enterprise manufactures eco-friendly home appliances. To scale up, the

company structured its operations into separate dedicated divisions, such as "Eco-Refrigerators," "Solar Geysers," and "Smart Lighting." Each division operates as an independent profit center with its own specialized production, human resource, and marketing departments.

Task: Identify the organizational structure adopted by this company. Discuss its suitability for a growing business, and explain two major limitations this structural setup might present.

## 2. Assertion & Reasoning Questions

Directions: In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option:

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are true but (R) is not the correct explanation of
- (c) (A) is true but (R) is false.
- (d) (A) is false but (R) is true.

### Question 5

Assertion (A): Management is not considered a full-fledged profession in the exact same legal and structural framework as Medicine or Law.

Reason (R): There is currently no statutory restriction or mandatory educational degree required for anyone to be designated as a manager in a corporate business entity.

### Question 6

Assertion (A): The application of the principle of Unity of Command is vital to prevent structural friction, dual subordination, and overlapping responsibilities in an organization.

Reason (R): The concept of Unity of Direction focuses on ensuring that an entire group of corporate activities sharing the same objective must move under "one head and one plan."

### Question 7

Assertion (A): Planning is essentially an incomplete and blind administrative exercise if a robust, active Controlling mechanism is not established alongside it.

Reason (R): Controlling provides the critical feedback loops, evaluation metrics, and performance variance data that serves as the blueprint benchmark for subsequent planning cycles.

### Question 8

Assertion (A): Under a decentralized management structure, the absolute ultimate accountability for final results can be completely passed down to lower-level operational subordinates.

Reason (R): Authority can be systematically delegated, but the final accountability remains with the superior manager who initiated the delegation.

## PART D: IMPORTANT QUESTION BANK (EXAM-ORIENTED REVIEW)

Write structured, points-based answers for the following questions in your home assignment notebooks.

Short Answer Type Questions (3–4 Marks Each)

Question 1 Differentiate clearly between the concepts of Effectiveness and Efficiency in management. Use a practical corporate scenario to show how a firm can be highly effective but highly inefficient.

Question 2 Explain how the structural meaning and core focus of management thought evolved over time when transitioning from the rigid Classical Bureaucratic Approach to the human-centric Neo-Classical Approach.

Question 3 "Management principles are flexible guidelines rather than absolute, rigid laws." Contrast this characteristic of management principles with the absolute principles of pure science.

Question 4 "Planning is a forward-looking function that paradoxically reduces intellectual flexibility and spontaneous employee creativity." Critically evaluate this statement by detailing two major internal limitations of planning.

Question 5 Analyze how the Directing function acts as the primary organizational spark plug that facilitates smooth structural adjustments and adaptation to external changes within a modern corporate firm.

Question 6 Explain how the Controlling function helps an organization in:

- (a) Judging the accuracy of performance standards.
- (b) Improving employee motivation.

Question 7 Briefly explain the concepts of Recruitment and Training & Development as essential parts of the Staffing function in an enterprise.

Long Answer Type Questions (6 Marks Each)

Question 8 "Coordination is not an independent, isolated function of management; rather, it is the invisible essence of management that runs through all functions." Justify this statement by analyzing how coordination is deeply intertwined with Planning, Organizing, Staffing, Directing, and Controlling.

Question 9 Explain the following classic principles of management outlined by Henri Fayol. Use a distinct real-world business example to illustrate the impact of applying each principle and the consequence of violating it:

- (a) Esprit De Corps
- (b) Subordination of Individual Interest to General Interest
- (c) Centralization and Decentralization

Question 10 Detail the complete chronological steps involved in the Planning Process of an enterprise. Explain why breaking this sequence or skipping a step can jeopardize the strategic execution of business goals.

Question 11 Distinguish comprehensively between a Functional Structure and a \*\* Divisional Structure\*\* of organization on the basis of the following parameters:

- (a) Basis of structural formation.
- (b) Separation of profit responsibility and accountability.
- (c) Comparative operational cost and economic viability.
- (d) Impact on well-rounded managerial career development.

Question 12 "Planning and Controlling are inseparable twins; they are interdependent and deeply co-existent." Discuss this relationship by critically analyzing the statement: "Planning is looking ahead, while Controlling is looking back."

Note : Revise all the taught chapters thoroughly.

## PHYSICAL EDUCATION

### Section A – Written Work

#### 1. Yoga and LifeLifestyle

Write short notes on the following:

Importance of Yoga in daily life

Any 5 Asanas for obesity

Benefits of Pranayama

Difference between Yoga and Physical Exercise

#### 2. Sports and Nutrition

Answer the following questions:

1. What is a balanced diet?
2. Explain carbohydrates, proteins and fats.
3. Write the importance of hydration in sports.
4. Prepare a one-day diet chart for a sportsperson.

#### 3. Children and Women in Sports

Explain the importance of sports participation for women.

Write any 5 female Indian sportspersons and their achievements.

Explain common postural deformities and their corrective measures.

#### 4. Training in Sports

Define strength, endurance, speed and flexibility.

Explain any two methods to improve flexibility.

Write the importance of warming up and cooling down.

#### 5. Sports Injuries

Answer the following:

Define sports injury.

Explain the R.I.C.E. method.

Difference between sprain and strain.

Write first aid for muscle cramps.

Practical work

- 1) practical 1: Physical Fitness Test: SAI Khelo India Test, Brockport Physical Fitness Test
- 2) Practical 2: Proficiency in Games and Sports (Skill of any one IOA recognized Sport/Game of Choice)\*\*

### 3) Practical 3: Yogic Practices

Note :Do it in practical file(lab manual)

Complete all work neatly in a separate notebook/file.

Use blue/black pen only.

Draw diagrams wherever required.

Submit homework after summer vacation.

## ECONOMICS

I. Revise all the chapters done in the class.

II. Read the following case studies and answer the questions. Do it in the fair notebook.

1) The Industrial Policy Resolution of 1956 classified industries into three categories: those exclusively under the public sector, those where both for public and private sectors could operate, and those left to the private sector. The policy aimed to build a strong industrial base through state ownership and control in key sectors such as heavy industries, defense and transport.

- Why were certain industries reserved for the public sector?
- Mention any two limitations of this industrial policy.

2) The Green Revolution in the 1960s introduced high-yielding variety (HYV) seeds, chemical fertilizers, and irrigation methods. It significantly increased food grain production, especially in Punjab, Haryana, and Western Uttar Pradesh. However, it also led to regional imbalances, increased mechanization, and greater income disparity among farmers. The green revolution in India refers to a period when Indian Agriculture was converted into an industrial system due to the adoption of modern methods and technology such as the use of HYV seeds, tractors, irrigation facilities, pesticides and fertilizers. It was funded by the US and the Indian Government and the Ford and Rockefeller Foundation. The Green Revolution in India is largely the Wheat Revolution as the wheat production increased by more than three times between 1967-68 and 2003-04, while the overall increase in the production of cereals was only two times.

- Elaborate the key components of the Green Revolution?
- Name two states that benefited the most.
- Mention two negative consequences of the Green Revolution.

3. Analyse the picture and answer the following questions:



- What does the image tell you about the scale and organization of indigo production during British rule?
- Why was indigo such an important crop for the British?
- Discuss whether the indigo production system shown in the image was beneficial or exploitative for Indian peasants. Justify your answer.

4) During the British colonial period, India's foreign trade was heavily controlled by the British. The East India Company first gained monopoly rights over India's trade, and later, the British government continued to direct the terms of trade to suit British economic interests. India was turned into a supplier of raw materials like cotton, indigo, and jute, and a market for British manufactured goods, particularly textiles. High tariffs were imposed on Indian goods exported to Britain, while British goods entered India with little to no duties. India had no control over its trade policy, and the profits from India's export surplus were not invested in the Indian economy but transferred to Britain, a phenomenon known as the "economic drain."

a) Why did the British promote export of raw materials from India and import of manufactured goods into India?

b) What is meant by the term "economic drain," and how is it related to British monopoly over trade?

c) How did the lack of control over trade policy affect India's economy before independence?

5) In response to an economic slowdown, the government of Country X introduced a series of stimulus measures aimed at increasing national income. These measures

included significant tax cuts for individuals and businesses, increased government spending on public infrastructure projects, and low-interest loans for small businesses to stimulate investment. As a result of these policies, the country's Gross Domestic Product (GDP) grew by 4% in the following year, up from 1.5% the previous year. The increase in government expenditure on infrastructure directly boosted aggregate demand, leading to job creation in construction and related sectors. At the same time, lower taxes increased household disposable income, encouraging greater consumer spending on goods and services. However, the country's net exports remained negative as imports of capital goods, such as machinery for infrastructure, exceeded exports. Despite this, the overall increase in investment and consumption led to a significant rise in national income. Economists predict that as infrastructure improves and industrial productivity increases, the country will see long-term growth in exports, further enhancing national income.

a) What were the key measures implemented by the government of Country X to boost National Income?

b) How did government spending on infrastructure affect national income in the short term?

c) Why did net exports remain negative despite the increase in national income, and what were the main imports?

6) Riya is analyzing the economic performance of her country. She found that the value of all final goods and services produced within the country during the year was Rs.200 lakh crore. She also found that the value of net factor income from abroad was Rs.5 lakh crore. Using this information, answer the following:

1. What is the Gross Domestic Product at Market Price (GDPMP) of the country?

2. Calculate the National Income (NNP at Factor Cost)

A company, XYZ Inc., produces electronic components. The company purchases raw materials worth Rs.50,000 and uses them to produce components worth

7) Rs.1,00,000. The company then sells these components to a manufacturer for Rs.1,20,000.

1. What is the value added by XYZ Inc. in the production process?

A) Rs.50,000      B) Rs.70,000      C) Rs.1,00,000      D) Rs.50,000

2. If the company sells the components for Rs.1,20,000, what is the additional value added?

A) Rs.20,000      B) Rs.30,000      C) Rs.40,000      D) Rs.50,000

3. What is the total value added by XYZ Inc. in the entire process?

A) Rs.50,000      B) Rs.70,000      C) Rs.1,20,000      D) Rs.70,000

8) Find the missing figures and choose the correct alternative-

Round	Deposits	Loans	Reserve Ratio (20%)
I	1000	800	200
II	800	(i)	160
III	-----	-----	-----
IV	-----	-----	-----
Total	(ii)	(iii)	(iv)

9) There is a constitutional requirement in India (Article 112) to present before the Parliament a Statement of estimated receipts and expenditures of the government in respect of every financial Year which runs from 1 April to 31 March. This 'Annual Financial Statement' constitutes the Main budget document of the government. Although the budget document relates to the receipts and expenditure of the government for a Particular financial year, the impact of it will be there in subsequent years. There is a need therefore to have two accounts- those that relate to the current financial year only are included in the revenue account (also called revenue budget) and those that concern the assets and liabilities of the government into the capital account (also called capital budget). In order to understand the Accounts, it is important to first understand the objectives of the government budget.

a) Revenue budget do not affect:

A) Assets and liabilities      B) Only assets      C) Both A and B      D) None of these

b) Capital expenditure refers to -

A) Either create assets or reduce liabilities      B) Either create liabilities or reduce assets

C) Both A and B      D) None of these

c) Which of the following is indirect tax?

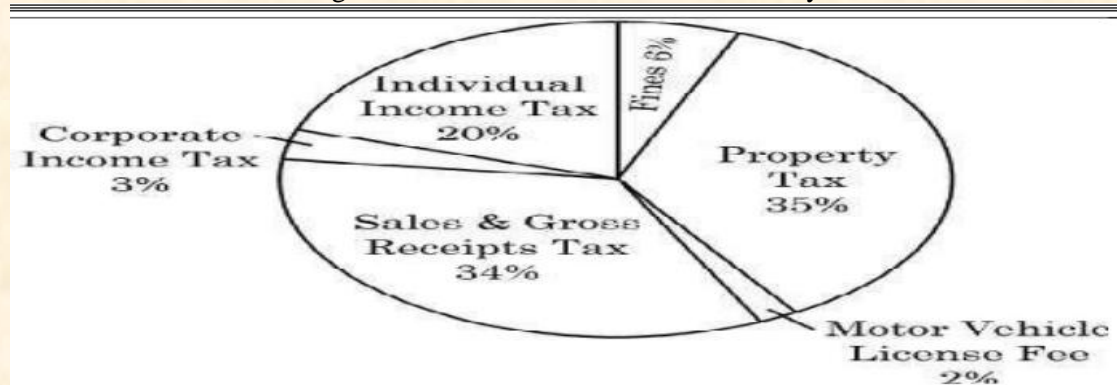
A) Income tax      B) Corporate tax      C) Wealth tax      D) None of these

Q4. Who present the Union Budget in Parliament?

A) Defence minister      B) Finance minister      C) Home minister      D) Commerce & textile minister

10) Study the given picture carefully:

Sources of State and Local government tax revenues for a financial year 2023-24.



(a) Categorise the given items in the picture into tax /non-tax receipts.

(b) "Government has started spending more on providing free services like education and health to the poor." In the light of above statement, explain how the government can use the budgetary policy in reducing inequalities of income.

### Model United Nations (MUN)

Theme: "States of India"

Objective - To develop awareness about Indian states, governance, economy, culture, and public speaking skills through a Model United Nations style activity.

Part A – State Profile

Each student will represent one Indian State according to his/her name against the state.

S. NO	TOPIC - XII COM	STUDENT NAME
1	Andhra Pradesh	PRAJWAL
2	Arunachal Pradesh	MONISH
3	Assam	NISHTHA
4	Bihar	RONAK
5	Chhattisgarh	SHIVAM SENGAR
6	Goa	SHIWANI
7	Gujarat	SHIVAM KUMAR RAI
8	Haryana	RAJ
9	Himachal Pradesh	EKTA
10	Jharkhand	RITIKA KUMARI
11	Karnataka	DIVYANSHU
12	Kerala	SAIF
13	Madhya Pradesh	ANAMIKA
14	Maharashtra	SOUMYA
15	Manipur	KASHISH
16	Meghalaya	AAYUSH
17	Mizoram	CHIRAG
18	Nagaland	GOLU YADAV
19	Odisha	AASHISH PAL
20	Punjab	RASHMI
21	Rajasthan	DEEPAK KUMAR
22	Sikkim	ANJALI

- Digital India and Technology
- Clean Energy Initiatives

Include:

1. Introduction of the Issue
2. Situation in Your State
3. Challenges Faced
4. Government Initiatives
5. Suggestions and Solutions
6. Conclusion

Part C - Design a State Placard.

Assessment Criteria

- Research Work
- Creativity
- Presentation Skills
- Confidence
- Knowledge of Current Issues

Instructions

Students will participate in a classroom MUN representing different Indian states after summer vacations.

- Submission Date: 01/07/2026
- Maintain neatness and originality.

- Decorative cover page would be encouraged.
- Use simple and meaningful language.

## **BUSSINESS STUDIES**

### Case Studies

Q1A recent rate cut in the interest on loans announced by the banks encouraged Amit, a science student of Progressive School, to take a loan from State Bank of India to experiment and develop cars to be powered by fuel produced from garbage. He developed such a car and exhibited it in the Science Fair organised by the Directorate of Education. He was awarded the first prize for his invention. Identify and explain the dimensions of business environment discussed in the above case.

Q-2After completing her MBA, Beni took up a job with a multinational company named Fortio. The company paid good salaries and perks to its employees. The wages were within the paying capacity of the company that provided the employees with a reasonable standard of living. The company also had a good work-culture and the behaviour of superiors was very good towards their subordinates. Beni was very happy in this organisation but due to long working hours, she did not have time to cook her meals. She had to depend upon outside food which was deteriorating her health. She observed that this problem was faced by many of her colleagues, not only in her company but also in many other companies. This was because of increase in the number of working women and non-availability of hygienic home-cooked food. She identified this as a great opportunity and decided to give up her job to supply packaged home-cooked food to office-goers at a reasonable price. At the end of the day, she also distributed the leftover food to the nearby night-shelters.

1. State the dimension of business environment being discussed above.
2. State the principle of management being followed by Fortio.
3. Identify any two values being communicated by the company to society in above case.

Q-3Rajveer works as a plant superintendent in a carpet making factory. In order to complete the export orders on time, the production manager asks him to make the workers work over time whereas the finance manager is strictly against this practice because it will increase the cost of production. Moreover, Rajveer feels that since the company is manufacturing handmade carpets as well as machine made carpets there is a lot of overlapping of activities. Therefore, there should be two separate divisions for both of them wherein each division should have its own in charge, plans and execution resources. In context of the above case:

1. Identify and explain the principle of management which is being violated.
2. Also identify the principle of management that Rajveer feels should be implemented in the factory.
3. Give any two differences between the principle of management as identified in part (a) and part b.

Q4 Neeraj is selected for the post of software developer in an IT Company. On the first day of his joining Mehul, his project manager tells Neeraj that during the course of his work he will come across many such opportunities which may tempt him to misuse his powers for individual or family's benefit at the cost of larger general interest of the company. In such situations, he should rather exhibit exemplary behaviour as it will raise his stature in the eyes of the company. Also, for interacting with anyone in the company on official matters, he should adopt the formal chain of authority and communication.

In context of the above case:

1. Identify and explain the various principles of management that Mehul is advising Neeraj to follow while doing his job.
2. List any two values that Mehul wants to communicate to Neeraj.

Q5 Sridhar's father is working as a section in-charge in a government office. Identify the level of management at which he is working? State any five functions that he has to perform at this level.

Q6 Ramarjuna joins an IT firm as a system analyst after completing his masters in Computer Science. As the nature of his work demands he has to work in very close coordination with all the departmental heads in the firm, very soon Ramarjuna realizes that each departmental head has own individual style of working. They differ greatly in their day-to-day approach to work. They tend to deal with a given situation, an issue or a problem through a combination of their own experience, creativity, imagination, initiative and innovation.

In the context of the above case:

Identify and explain the nature of management highlighted in the above case.

Q7 Gurpreet is running a retail mart in Varanasi to provide various types of products of daily use under one roof to the buyers. The employee turnover in his business is very high and he is perpetually on a look out for new staff. The fact of the matter is that he lacks managerial skills and assigns work to his employees on adhoc basis without letting them settle down in a specific work. This approach of his creates a sense of insecurity among the employees and they tend to leave the job very quickly. However, he is a very god fearing person and offers fair wages to his employees so they can afford a reasonable standard of living.

In context of the above case:

1. Identify and explain the principle of management which Gurpreet is unable to apply and is perpetually on a look out for new staff.
2. "He is a very god fearing person and offers fair wages to his employees so they can afford reasonable standard of living." Name and explain the relevant principle of management will has been brought into effect by Gurpreet.

Q8 On 8 November 2016, the Government of India announced the demonetization making all Rs.500 and Rs. 1,000 banknotes of the Mahatma Gandhi Series invalid past midnight. The government claimed that the action would curtail the use of illicit and counterfeit cash to fund illegal activity and terrorism. The BSE SENSEX and NIFTY 50 stock indices fell over 6 percent on the day after the announcement. The decision was heavily criticised by members of the opposition parties, leading to debates in both houses of parliament and triggering organised protests against the government in several places across India. People seeking to exchange their bank notes had to stand in lengthy queues, and several deaths were linked to the inconveniences caused due to the rush to exchange cash. After demonetisation the demand for point of sales.

Q-9- (POS) or card swipe machines has increased. E-payment options like Paytm has also seen a rise. In context of the above case:

1. Identify and explain the various dimensions of business environment which relate to the above mentioned case.
2. List any through two values that the government seeks to promote through demonetisation.

Q9 Post demonitisation in a further push to cashless economy, the Central cabinet has recently approved the ordinance for paying wages via electronic means. Accordingly, the government approved to Amend Section 6 of the Payment Of Wages Act 1936, to allow employers of certain industries to make payment through the electronic mode and cheques . The new ordinance will be applicable to the public sector. Identify the various dimensions of business environment which relate to the above mentioned case.

Q10 Nikita and Salman completed their MBA and started working in a multinational company at the same level. Both of them worked hard and were happy with their employer. Salman had the habit of back-biting and wrong reporting about his colleagues to impress his boss. All the employees in the organisation knew about it. At the time of performance appraisal, the performance of Nikita was judged to be better than Salman. Even then their boss, Mohammed Sharif, decided to promote Salman stating that being a female, Nikita would not be able to handle the complications of a higher post.

1. Identify and explain the principle of management which was not followed by this, multinational company.
2. Identify the values which are being ignored quoting the lines from the above paragraph.

Q11 A floor manager of a mall is a very good manager as he utilizes all the functions of management to minimize cost of maintenance of his area. He directs all the staff members under him to follow the targets and advises them to put their efforts in the direction of achievement of these targets. Under his guidance the employees admit that they learn a lot and are able to meet their targets. This has led to the increase in their salaries. Identify the importance of management highlighted above.

Q12 Identify the various dimensions of business environment:

1. With the election of a new government the sensdex drops by 748 points.
2. A particular channel refrains from showing the advertisement of a particular product as it is banned by the government.
3. A software is in high demand among the industrial buyers as it can connect all the branches of a company as a single integrated unit.
4. At the time of holi a large number of manufacturing firms get involved in making colours which are used in the celebration of this colourful festival.
5. It is not advisable to open a luxury car showroom in the middle of an economy where per capita income is very low.

Q13 “World Softwares” is a software giant. It has many branches throughout the world. The company knows that it has great opportunities in its path. When it it was limited only to its native country. With the passage of time within 20 years the economies of various countries have integrated. This has come as a great advantage to this company which has expanded. In many of the countries where it has its, branches the control of government in the public sector enterprises has diluted leading to more control in the hands of the private sector. One of the major reasons for the success of the company has been the role of the initiator the company has played as it was the first company of its kind to enter the market.

Identify the two important concepts highlighted above. Which type of advantage has been indicated in the last line of the above case?

Q14 Radio XYZ is a company which has improved its functioning by proper management. The company has been good in fixing and completing targets. The main reason for its success has been the involvement of all of the employees. The company tries to keep its targets in front of the employees

so that each one of them can contribute to the completion of goals. Though their activities may be different yet they contribute to the common targets or goals of the organisation. The company has won the prize for the best organisational climate. This has been possible due to the impact of great managerial discipline which might not be visible to an outsider in the first look but he realises it when he stays in the organisation.

Gradually the organisation has developed itself into a very successful company. It has produced different types of radios according to the needs of the customers. During last decade it has adapted to the requirements of the market and produced different type of radios suiting the needs of the customers. The management of three components is always significant to the company — employees, process and amount of work to be done. Controlling these three areas is always a top priority to the company. Recently a meeting was held which laid stress on the need of taking good management to all levels and departments of the organisation. In the above case find all the characteristics of management and highlight the lines which help you identify them.

Q15 ABCDEF Ltd. decided to start its new venture in Delhi. For this they needed to understand the Business Environment of the area. It was realised by the company that the Business Environment of Delhi was very hard to understand unless and until it was divided into different business dimensions like legal, political, economic, social and technological conditions. After understanding the business situations the company started to study the close links between different elements of the Business Environment. They gave a proper shape to their research and the business got started with full force. Later they realised that the products they were selling in Delhi were more fit for the European culture and decided to start a new branch in Belgium where the demand of their products was very high from the first day. The company came to be recognized and in few years became a global brand. The reason for its success in different countries was the adaptability' it showed in meeting the changing environment. The company kept track of all happenings and did a periodic survey of the choices of the customers. It recognized that there was no surety in the nature of market and it was very unpredictable. Which features of Business Environment have been highlighted in the above case? Identify the lines which highlight these features.

Q16 With change in the consumption habits of people, Neelesh, who was running a sweets shop shifted to chocolate business. On the eve of Diwali he offered chocolates in attractive packages at reasonable prices. He anticipated huge demand and created a website chocolove.com for taking orders online. He got lot of orders online and earned huge profit by selling chocolates. Identify and explain the dimensions of business environment discussed in the above case.

Q17 Raise the Bar' is a sports equipment company. It has different branches in different parts of the world. However, the requirements of the sports equipments are different in different branches. This is due to the change in cultures and lifestyles of people in the different countries. The market in which it is dealing is known for awareness of health. The more the awareness the more is the demand for such equipments. Company knows that the demand for these products is unpredictable as new designs keep on coming and the industry keeps on changing frequently. There is a Research and Development Department which keeps on updating the equipments in material and design. However the outside business environment is characterized by changing customer preferences, entry of new competitors making it change. A meeting was organized recently to understand the external business environment. However, after the meeting it was realised that business environment can't be understood in totality it can only be understood by breaking it into its dimensions. The result of a successful meeting could be seen later in the performance of the company which created record sales in the coming year. Identify the features of business environment highlighted here.

Q18 A recent rate cut in the interest on loans announced by the Banks encouraged Amit, a science student of Progressive School to take a loan from State Bank of India to experiment and develop cars to be powered by fuel produced from garbage. He developed such a car and exhibited it in the Science Fair organized by Directorate of Education. He was awarded first prize for his invention.

Identify and explain the dimensions of business environment discussed in the above case.

Q19 Rajveer works as a plant superintendent in a carpet making factory. In order to complete the export orders on time, the production manager asks him to make the workers work over time whereas the finance manager is strictly against this practice because it will increase the cost of production. Moreover, Rajveer feels that since the company is manufacturing handmade carpets as well as machine made carpets there is a lot of overlapping of activities. Therefore, there should be two separate divisions for both of them wherein each division should have its own in charge, plans and execution resources.

In context of the above case:

1. Identify and explain the principle of management which is being violated.
2. Also identify the principle of management that Rajveer feels should be implemented in the factory.
3. Give any two differences between the principle of management as identified in part (a) and part (b) respectively.

Q- 20 Assertion (A): Planning establishes the standards for controlling.

Reason (R): Controlling compares actual performance with the planned standards to identify deviations and take corrective actions.

- A) both A and R are true , and R is the correct explanation of A .
- B) Both A and R are true , but R is not the correct explanation of A
- C) A is true, but R is the false.
- D) A is false , but R is true.