

# DAV PUBLIC SCHOOL, NTPC FARIDABAD

## SUMMER HOLIDAY HOMEWORK (2022-23)

### CLASS XII

#### SUBJECT: BIOLOGY

#### INSTRUCTIONS:-

1. Solve the assignment in your fair Notebook
2. Learn chapter-Sexual reproduction in plants  
-Sexual reproduction in animals

#### PROJECT

##### INSTRUCTIONS FOR THE PROJECT:

You need to follow the given sequence for the project:

You have to make the 1 page of project in which you will write the name of your project, submitted to, and submitted by, your name, class and Roll No.

Make this on project pages (one side plain and one side lines) Paste the pictures related to your project on the left hand side pages, which is plain side. After completion of the project keep pages in file folder. You need to follow the given sequence for the project:

1. Index
2. Certificate of authenticity
3. Acknowledgement
4. Introduction
5. Theory
6. Experiment (it includes - Aim, Requirement, Procedure, Observation table)
7. Results
8. Bibliography.
9. Make a project on any of the following topics:
  1. To study the quantity of casein present in different samples of milk.
  2. To determine the caffeine in tea samples.
  3. To study adulterants in food.
  4. To study the presence of insecticides and pesticides in fruits and vegetables.
  5. To Study the Impact of the Solid Waste Land filling on the Environment.
  6. To Investigate the different methods of production of biodiesel from waste.
  7. To Study and Analyse the Seed Tolerance for Freezing Temperatures.
  8. To Study the Quantitative Analysis of the Phytoplankton in a Water body.

#### ASSIGNMENT

##### CHAPTER-2: SEXUAL REPRODUCTION IN FLOWERING PLANTS

Q.1. Mention the scientific term used for the modified form of reproduction in which the seeds are formed without fusion of gametes. (CBSE, DL 2007)

Q.2. Describe the structure of a typical embryo sac found in flowering plants. Why it is generally referred to as monosporic. (CBSE, DL 2007)

Q.3. Why are non-albuminous seeds so called? (CBSE, DL 2009)

Q.4. Describe any two devices in a flowering plant which prevent both autogamy and geitonogamy. (CBSE 2018)

Q.5. Where is sporopollenin present in plants? State its significance with reference to its chemical nature. (CBSE, 2012)

Q.6. How does megaspore mother cell develop into 7 celled 8 nucleate embryo sac in an angiosperm?

Draw a labeled diagram of a mature embryo sac. (CBSE, DL 2012)

Q.7. Can a plant flowering in Mumbai be pollinated by the pollen grains of the same species growing in New Delhi? Provide explanation to the answer. (CBSE 2017)

### CHAPTER-3: HUMAN REPRODUCTION

Q.1. What is pregnancy hormone? Why is it so called? Name two sources of this hormone in human female. (CBSE, I 2007)]

Q.2. How is entry of only one sperm and not many, ensured into an ovum during fertilization in human. (CBSE, 2012)

Q.3. Write two major functions each of Testis and Ovary.

Q.4. Describe the role of pituitary and ovarian hormones during the menstrual cycle of a human female.

Q.5. Differentiate between spermatogenesis and oogenesis.

Q.6. Explain menstrual cycle in human female. How can the scientific understanding of the menstrual cycle of human females help as a contraceptive measure?

Q.7. Draw a labeled diagram of sperm and write functions of each part.

## **SUBJECT: COMPUTER SCIENCE**

### **Session 2022-23**

**ASSIGNMENT WORK:** Complete the assignments/notes of Unit -1 in a fair notebook as discussed in class..

**LEARNING WORK :** Learn all the chapters covered in Unit -1 .

**PROJECT WORK:** 1).Prepare a project file on Python as discussed in class having at least 10 programs.  
2).Design a Cover Page of a School Magazine according to your imagination.  
3).Make a cover page for a practical file on PowerPoint/Ms Word.

## **SUBJECT:PHYSICAL EDUCATION**

### **Session 2022-23**

**Learning Work:**Learn and revise Ch.1,2,3, for your Coming Exams

**Writing Work:** Write all the important questions of Chapter 1, 2, 3 in your notebook.

#### **Unit I Management of Sporting Events**

• Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling) • Various Committees & their Responsibilities (pre; during & post) • Fixtures and its Procedures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)

#### **Unit II Children & Women in Sports**

• Common Postural Deformities - Knock Knee; Bow Legs; Flat Foot; Round Shoulders; Lordosis, Kyphosis, and Scoliosis and their corrective measures • Special consideration (Menarche & Menstrual Dysfunction) • Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)

#### **Unit III Yoga as Preventive measure for Lifestyle Disease**

Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama. Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana, Paschimottanasana, Ardha-Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati. Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana Matsyaasana, Anuloma-Viloma. Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadishodhanapranayam, Sitlipranayam.

# Session (2022-23)

## SUBJECT: PHYSICS

### INSTRUCTIONS:-

1. **ASSIGNMENT** : Solve this Assignment in your fair Notebook
2. **LEARNING** : Learn chapter 1&2

Revise and do all NCERT questions of all the chapters done in the class in your physics fair notebooks.

### ACTIVITIES :

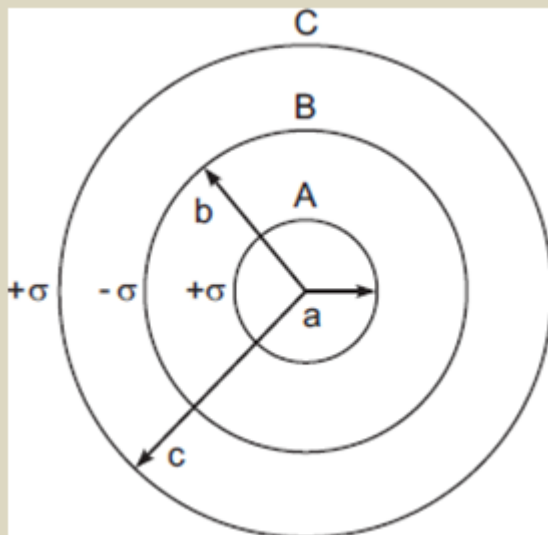
- **PREPARE A PORTFOLIO ON ONE OF THE FOLLOWING TOPICS :**  
ROLL NO 1-9 :- GAUSS THEOREM  
ROLL NO 10-17:- WAYS OF CHARGING
- **COMPLETE THE EXPERIMENTS IN YOUR PRACTICAL FILE :**
  - a) Apparatus/ equipment.
  - b) Procedure/ experimental methodology
  - c) Data/ observation (with proper units of all the quantities)
  - d) Calculations (use the correct formulae for the calculations)
  - e) Graphs/ diagrams/ charts
  - f) Result and conclusion.

### CH-1&2 (ELECTRIC CHARGES, FIELDS, POTENTIAL AND CAPACITANCE)

1. Define Torque. Find the torque acting on an electric dipole placed in a uniform electric field. Give the conditions for torque acting on an electric dipole is (a) zero and (b) maximum.
2. How can you explain a comb run through dry hair attracts pieces of paper?
3. Define linear charge density. Give its SI unit of measurement. Also give the formula to find the linear charge density.
4. Define the following. Also give their SI units of measurement?
  - a) Surface charge density and b) Volume charge density.
5. State & prove Gauss's Law.

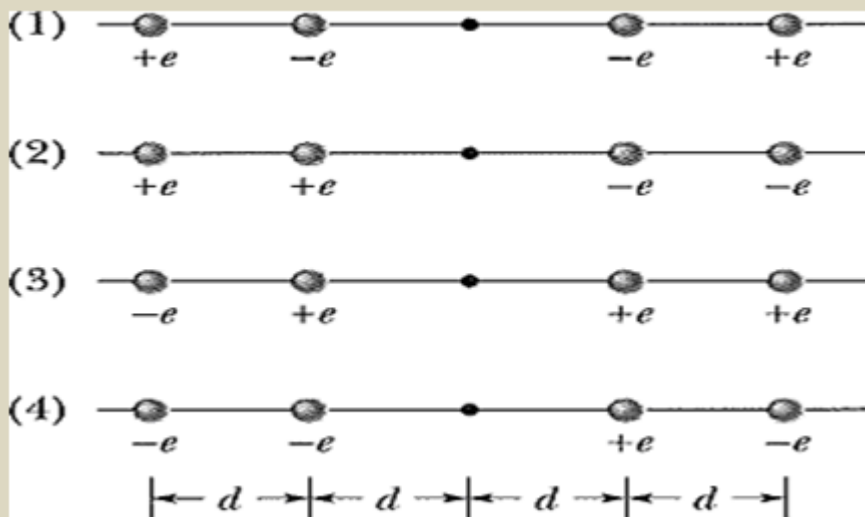
6. Derive an expression to find the electric field due to a uniformly charged infinite plane sheet using Gauss's Law
7. Derive an expression to find the electric field due to a uniformly charged thin spherical shell using Gauss's Law
8. Two charges  $\pm 10\mu\text{C}$  are placed 5.0 mm apart. Determine the electric field at
  - (a) a point on the axis of the dipole at 15 cm away from the center of the dipole on the axial line and
  - (b) at 15 cm away from the center of the dipole on the equatorial line of the dipole.
9. Do the electrostatic field lines form closed loops?
10. Is the force acting between two point charges  $q_1$  and  $q_2$  kept at some distance apart in air attractive or repulsive when i)  $q_1 q_2 > 0$  ii)  $q_1 q_2 < 0$  ?
11. If the distance between two equal point charges is doubled and their individual charges are also doubled, what would happen to the force between them ?
12. Two uniformly large parallel thin plates having charge densities  $+\sigma$  and  $-\sigma$  are kept in the X-Z plane at a distance 'd' apart. Sketch an equipotential surface due to electric field between the plates. If a particle of mass m and charge  $-q$  remains stationary between the plates, what is the magnitude and direction of this field?
13. Three concentric metallic shells A, B and C of radii a, b and c ( $a < b < c$ ) have surface charge densities  $+\sigma$ ,  $-\sigma$  and  $+\sigma$  respectively as shown in the figure.

If shells A and C are at the same potential, then obtain the relation between the radii a, b and c.



14. Four point charges  $q_A = 2\mu\text{C}$ ,  $q_B = -5\mu\text{C}$ ,  $q_C = 2\mu\text{C}$ , and  $q_D = -5\mu\text{C}$  are located at the corners of a square ABCD of side 10 cm. What is the force on a charge of  $1\mu\text{C}$  placed at the centre of the square?

15. Three small identical conducting spheres have charges  $-3 \times 10^{-12}\text{C}$ ,  $8 \times 10^{-12}\text{C}$  and  $4 \times 10^{-12}\text{C}$  respectively. They are brought in contact and then separated. Calculate: (i) charge on each sphere after separation (ii) number of electrons in excess or deficit on each sphere after separation .
16. Figure below shows situations in which four charged particles are evenly spaced to the left and right of a central point. The charge values are indicated. Rank the situations according to the magnitude of the net electric field at the central point, Increasing order.



17. A hollow conducting sphere of radius 8cm is given a charge  $16\mu\text{C}$ . What is the electric field intensity
- at the centre of the sphere,
  - on the outer surface of the sphere and
  - at a distance of 16cm from the centre of the sphere?
18. State two points of difference between charging by induction and charging by conduction.
19. What is an equipotential surface? Draw the equipotential surfaces for the following
- Uniform electric field
  - A Dipole
  - Two identical positive charges.
20. Derive an expression to find the potential due to an electric dipole
- at a point on the axis of the dipole and
  - at a point on the equatorial line.



# Session (2022-23)

## SUBJECT: Chemistry

### CLASS XII

1. Revise and do all NCERT questions of all the chapters done in the class in fair notebook.
2. Solve the assignment in fair chemistry notebook.
3. Make a power point presentation on “Stereochemical aspects of nucleophilic substitution “or “Colligative Properties”.
4. Prepare a short video performing activity related to solubility of salts or concentration variation of solution with temperature.
5. Draw a 3D chart of A3 size on preparation and chemical properties of haloalkanes and haloarenes.
6. Prepare one investigatory project. The project report to be written as follows:
  1. Title Page – This is the first page carry the following information
    - i. Title / Aim of the project
    - ii. Name of the student with class and section
  2. Table of contents – This page records the content of the project report preferably with corresponding page numbers.
  3. Introduction and review – This provides a brief history of the project including chronological order of previous work done in this direction.
  4. Experimental – This section should include the following information:
    - i. Apparatus /equipment
    - ii. Procedure /experimental methodology
    - iii. Data / observation (with proper units of all the quantities
    - iv. Calculations (use the correct formulae for the calculations
    - v. Graphs / diagrams / charts
    - vi. Result and conclusion
  5. Bibliography – On this page a list of books, periodicals, review article, research work (if any) related to the present work is to be reported.

## CLASS-XII

Subject- ENGLISH(2022-23)

→ Read English E-Newspaper daily and prepare/ cut & paste classified advertisements two each of-

- For sale
- To let
- Lost and found
- Travel and tours
- Situation wanted
- Situation vacant

→ Prepare Digital/Handmade/animated posters/Portrait/charts on the suggested Titles “ The

→ Last lesson, “My mother at sixty six”, “The Lost spring with a message for each one

→ using quotations/catchy phrases/tag line etc.

→ Prepare PPT/Video on any 1 chapter of your choice.Include the following in your presentation-

- About the Author/Poet
- Summary/Key Points
- Character Sketch
- Moral/Values
- Literary Devices,if any

Listen to these talks of wonderful people every week.

<https://youtu.be/C5EG1-w7fYo> josh talk by Arunimna Sinha

No one can stop you if you are determined in your life.

[https://youtu.be/7fIL5s\\_Kq68](https://youtu.be/7fIL5s_Kq68) Dr. APJ Abdul Kalam's Life Advice Will Change Your Future ( MUST WATCH) Motivational Speech

<https://youtu.be/xQjp8wPylFs> Sachin tendulkar’s farewell speech showing gratitude towards everyone who contributed in his life.

Learn and practice the habit of Gratitude. It brings magical change in life.

→ Literature- Read all the Chapters done till date & write its summary

**\*Separate assignment will be provided for the writing part.**



# MATHS

## Class-XII

### DETERMINANT WORKSHEET

DATE	/	/
PAGE		

1. For the matrix  $A = \begin{bmatrix} 3 & 1 \\ 7 & 5 \end{bmatrix}$ , find  $x$  and  $y$

So that  $A^2 + xI = yA$  Hence find  $A^{-1}$

Ans:  $x=8, y=8$  ;  $A^{-1} = \frac{1}{8} \begin{bmatrix} 5 & -1 \\ -7 & 3 \end{bmatrix}$

2. Let  $A = \begin{bmatrix} 1 & -1 & 1 \\ 2 & -1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$  then first show  $A^3 = I$

then prove that:  $A^{-1} = A^2$

3. Find Minors and Co-factors of elements of the determinant

2	-3	5
6	0	4
1	5	-7

and verify that:

$$a_{11}A_{31} + a_{12}A_{32} + a_{13}A_{33} = 0$$

4. Given  $A = \begin{bmatrix} 5 & 0 & 4 \\ 2 & 3 & 2 \\ 1 & 2 & 1 \end{bmatrix}$  ;  $B^{-1} = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$

Compute:  $(AB)^{-1}$       Ans:  $\begin{bmatrix} -2 & 19 & -27 \\ -2 & 18 & -25 \\ -3 & 29 & -42 \end{bmatrix}$

5. Find the matrix  $X$  for which  $\begin{bmatrix} 3 & 2 \\ 7 & 5 \end{bmatrix} X \begin{bmatrix} -1 & 1 \\ -2 & 1 \end{bmatrix} = \begin{bmatrix} 2 & -1 \\ 0 & 4 \end{bmatrix}$

Ans:  $X = \begin{bmatrix} -16 & 3 \\ 24 & -5 \end{bmatrix}$

6. For non-singular square matrix  $A, B$  and  $C$  of the same order  $(AB^{-1}C)^{-1} =$

(i)  $A^{-1}BC^{-1}$     (ii)  $C^{-1}B^{-1}A^{-1}$     (iii)  $CBA^{-1}$     (iv)  $C^{-1}BA^{-1}$

7. I]  $A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$  be such that  $A^{-1} = kA$  then find Value of  $k$ .

Ans.  $k = \frac{1}{19}$

8. Let  $A$  be a  $3 \times 3$  square matrix such that  $A(\text{adj} A) = 2I$ . Write Value of  $|\text{adj} A|$

9. I]  $\text{adj} A = \begin{bmatrix} 2 & 3 \\ 4 & -1 \end{bmatrix}$  and  $\text{adj} B = \begin{bmatrix} 1 & -2 \\ -3 & 1 \end{bmatrix}$   
find  $\text{adj} AB$ .

Ans.  $\begin{bmatrix} -6 & 5 \\ -2 & -10 \end{bmatrix}$

10. I]  $A = [a_{ij}]_{2 \times 2}$  where  $a_{ij} = \begin{cases} i+j & \text{if } i \neq j \\ i^2 - 2j & \text{if } i = j \end{cases}$

then find  $A^{-1}$ .

Ans.  $\frac{1}{9} \begin{bmatrix} 0 & 3 \\ 3 & 1 \end{bmatrix}$

1. Without expanding, prove:

$$(i) \begin{vmatrix} 6 & -3 & 2 \\ 2 & -1 & 2 \\ -10 & 5 & 2 \end{vmatrix} = 0.$$

$$(ii) \begin{vmatrix} 102 & 18 & 36 \\ 1 & 3 & 4 \\ 17 & 3 & 6 \end{vmatrix} = 0.$$

[NCERT, Foreign 2012]

$$(iii) \begin{vmatrix} 2 & 3 & 4 \\ 5 & 6 & 8 \\ 6x & 9x & 12x \end{vmatrix} = 0. \text{ [Delhi 2009]}$$

$$(iv) \begin{vmatrix} x+y & y+z & z+x \\ z & x & y \\ 1 & 1 & 1 \end{vmatrix} = 0.$$

$$(v) \begin{vmatrix} x & a & x+a \\ y & b & y+b \\ z & c & z+c \end{vmatrix} = 0.$$

[NCERT]

$$(vi) \begin{vmatrix} 4 & a & b+c \\ 4 & b & c+a \\ 4 & c & a+b \end{vmatrix} = 0.$$

[Foreign 2010]

$$2. \text{ Prove (without expanding): } \begin{vmatrix} a-b & b-c & c-a \\ b-c & c-a & a-b \\ c-a & a-b & b-c \end{vmatrix} = 0.$$

[NCERT, All India 2009]

2. Without expanding, show that the value of each of the following determinants is zero:

$$(i) \begin{vmatrix} 8 & 2 & 7 \\ 12 & 3 & 5 \\ 16 & 4 & 3 \end{vmatrix}$$

$$(ii) \begin{vmatrix} 6 & -3 & 2 \\ 2 & -1 & 2 \\ -10 & 5 & 2 \end{vmatrix}$$

$$(iii) \begin{vmatrix} 2 & 3 & 7 \\ 13 & 17 & 5 \\ 15 & 20 & 12 \end{vmatrix}$$

$$(iv) \begin{vmatrix} 1/a & a^2 & bc \\ 1/b & b^2 & ac \\ 1/c & c^2 & ab \end{vmatrix}$$

$$(v) \begin{vmatrix} a+b & 2a+b & 3a+b \\ 2a+b & 3a+b & 4a+b \\ 4a+b & 5a+b & 6a+b \end{vmatrix}$$

$$(vi) \begin{vmatrix} 1 & a & a^2 - bc \\ 1 & b & b^2 - ac \\ 1 & c & c^2 - ab \end{vmatrix}$$

$$(vii) \begin{vmatrix} 49 & 1 & 6 \\ 39 & 7 & 4 \\ 26 & 2 & 3 \end{vmatrix}$$

$$(viii) \begin{vmatrix} 0 & x & y \\ -x & 0 & z \\ -y & -z & 0 \end{vmatrix}$$

$$(ix) \begin{vmatrix} 1 & 43 & 6 \\ 7 & 35 & 4 \\ 3 & 17 & 2 \end{vmatrix}$$



## DETERMINANT WORKSHEET

1. Find the Value(s) of  $x$  for which the Matrix

$$A = \begin{bmatrix} x & 1 & 2 \\ 1 & 0 & 3 \\ 5 & -1 & 4 \end{bmatrix} \text{ is Singular.}$$

Ans:  $x = -3$

2. If  $B = \begin{bmatrix} -1 & -2 & -2 \\ 2 & 1 & -2 \\ 2 & -2 & 1 \end{bmatrix}$  prove that  $\text{adj } B = 3B^T$

3. Find Minors and Co-factors of each element of second row  $\begin{bmatrix} 2 & -4 & 3 \\ 1 & 6 & 4 \\ 5 & 0 & -2 \end{bmatrix}$  and hence evaluate

its determinant.

4. If  $A$  and  $B$  are square matrices of the same order such that  $|A| = 6$  and  $AB = I$  then write Value of  $|B|$

5. If  $A = \begin{bmatrix} -4 & -3 & -3 \\ 1 & 0 & 1 \\ 4 & 4 & 3 \end{bmatrix}$

show that  $\text{adj } A = A$

6. Find a  $2 \times 2$  matrix  $B$  such that

$$B \begin{bmatrix} 1 & -2 \\ 1 & 4 \end{bmatrix} = \begin{bmatrix} 6 & 0 \\ 0 & 6 \end{bmatrix}$$

**SUBJECT – MATHEMATICS, CLASS – XI**  
**CHAPTER – 1(SETS)**

**Choose the correct option: ( $3 \times 1 = 3$ )**

1. For any set  $A$ ,  $(A')'$  is equal to  
(a)  $A'$  (b)  $A$  (c)  $\emptyset$  (d) none of these
2. Let  $X, Y, Z$  be three sets given as  
 $n(X) = 15, n(Y) = 22, n(Z) = 14$  and  $n(X \cap Y) = 11, n(Y \cap Z) = 8, n(X \cap Z) = 5, n(X \cap Y \cap Z) = 3$ , then  $n(X \cup Y \cup Z)'$  equals if  $X, Y, Z$  are subset of  $U$  and  $n(U) = 35$ ,  
(a) 35 (b) 30 (c) 26 (d) 5
3. Let  $S = \{x: x \text{ is a positive multiple of } 3 \text{ less than } 100\}$ ,  $P = \{x: x \text{ is a prime number less than } 20\}$ . Then  $n(S) + n(P)$  is  
(a) 34 (b) 31 (c) 33 (d) 41

**Fill in the blanks: ( $2 \times 1 = 2$ )**

4. If  $A$  and  $B$  are two finite sets, then  $n(A) + n(B)$  is equal to \_\_\_\_\_.
5. Power set of the set  $A = \{1, 2\}$  is \_\_\_\_\_.

**Answer the following: ( $3 \times 1 = 3$ )**

6. Write the following sets in the roaster form.  
 $A = \{x \mid x \text{ is a positive integer less than } 10 \text{ and } 2^x - 1 \text{ is an odd number}\}.$
7. Write the following in set builder form.  
 $A = \{3, 9, 27, 81\}$
8. If the universal set  $U = \{1, 3, 5, 7, 9, 11, 13, 15, 17\}$ ,  $B = \{1, 3, 7, 13, 15\}$  then find  $B'$ .

**Short Answer Type questions: ( $2 \times 2 = 4$ )**

9. Let A, B, and C be the sets such that  $A \cup B = A \cup C$  and  $A \cap B = A \cap C$ .  
Then show that  $B=C$ .
10. For any sets A and B, Show that  $P(A \cap B) = P(A) \cap P(B)$ .

**Long Answer Type - I Questions: ( $2 \times 4 = 8$ )**

11. In a survey of 400 students in a school, 100 were listed as taking apple juice, 150 as taking orange juice and 75 were listed as taking both apple as well as orange juice. Find how many students were taking neither apple juice nor orange juice.
12. There are 200 individuals with a skin disorder, 120 had been exposed to chemical  $C_1$ , 50 to chemical  $C_2$  and 30 to both chemicals  $C_1$  and  $C_2$ . Find the number of individuals exposed to Chemical  $C_1$ , but not chemical  $C_2$ ,  
(ii) Chemical  $C_2$  but not chemical  $C_1$ , (iii) Chemical  $C_1$  or chemical  $C_2$ .

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### WORKSHEET(STANDARD)

1. Given two finite sets  $A$  and  $B$  such that  $n(A) = 115; n(B) = 326; n(A - B) = 47$ ; then  $n(A \cup B)$  is  
(a) 373                      (b) 165                      (c) 370                      (d) None of these
2. Given two finite sets  $A$  and  $B$  such that  $n(A) = 3$  and  $n(B) = 6$ . Then minimum numbers of elements in  $A \cup B$  is  
(a) 3                      (b) 6                      (c) 9                      (d) 18
3. If a set  $A$  containing 6 elements, then number of non-empty subsets of  $A$  is  
(a) 36                      (b) 30                      (c) 64                      (d) 63

**Fill in the blanks: ( $2 \times 1 = 2$ )**

4. When  $A = \emptyset$ , then the number of elements in  $P(A)$  is \_\_\_\_\_.
5. If  $A$  and  $B$  are any two sets, then  $A - B$  is equal to \_\_\_\_\_.

**Answer the following: ( $3 \times 1 = 3$ )**

6. Write the following sets in the roaster form.  
 $H = \left\{ x: x = \frac{n}{n^2+1} \text{ and } 1 \leq n \leq 3, \text{ where } n \in N \right\}.$
7. Write the following in set builder form  
 $E = \left\{ \frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}, \frac{7}{8}, \frac{8}{9}, \frac{9}{10} \right\}$
8. Write the following in interval form  
 $\{x: x \in R, -4 \leq x < 6\}$

**Short Answer Type questions: ( $2 \times 2 = 4$ )**

9. Show that if  $A \subset B$ , then  $C - B \subset C - A$ .
10. Assume that  $P(A) = P(B)$ , Show that  $A = B$ .

**Long Answer Type - I Questions: ( $2 \times 4 = 8$ )**

11. A college awarded 38 medals in football, 15 in basketball and 20 in cricket. If these medals went to a total of 58 men and only three men got medals in all the three sports, how many received medals in exactly two of the three sports?
12. In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper I, 9 read both H & I, 11 read both H and T, 8 read both T & I, 3 read all three newspapers. Find:
- The number of people who read at least one of the newspapers.
  - The number of people who read exactly one newspaper.

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**Short Answer Type questions: ( $2 \times 2 = 4$ )**

9. Assume that  $P(A) = P(B)$ , Show that  $A = B$ .  
10. Let A and B be two sets. If  $A \cap X = B \cap X = \emptyset$  and  $A \cup X = B \cup X$  for some set X, then Show that  $A = B$ .

**Long Answer Type - I Questions: ( $2 \times 4 = 8$ )**

11. Prove that (a)  $(\bigcup_{i=1}^n A_i)' = \bigcap_{i=1}^n A_i'$ , (b)  $(\bigcap_{i=1}^n A_i)' = \bigcup_{i=1}^n A_i'$   
12. From 50 students taking examinations in Mathematics, Physics and Chemistry, each of the student has passed in at least one of the subject, 37 passed Mathematics, 24 Physics and 43 Chemistry. At most 19 passed Mathematics and Physics, at most 29 Mathematics and Chemistry and at most 20 Physics and Chemistry. What is the largest possible number that could have passed all three examinations?

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# ACCOUNTANCY (2022-23)

## CHAPTER 1 ASSIGNMENT

### SHORT ANSWER TYPE QUESTIONS (3 MARKS)

- 1) Ankita and Rinkita were partners in a firm sharing profits in the ratio of 2 : 3. Their fixed capitals were Rs. 2,50,000 and Rs. 4,50,000 respectively. After the final accounts of the year had been closed, it was found that interest on capital at 10% per annum as provided in the partnership agreement has not been credited to the capital accounts of the partners. Give necessary adjustment entry.
- 2) Ayush, Harsh and Prince are partners in a firm sharing profits in the ratio of 5:3:2. Their capitals were Rs. 3,00,000 ; Rs. 2,00,000 and Rs. 1,00,000 respectively. For the year 2018-19, interest on capital accounts @ 8% p.a. instead of 10% p.a. showing your working clearly, pass the necessary adjusting entry.
- 3) During the year 2018-19, Rahul withdrew Rs. 500 p.m. at the beginning of every month whereas Sahil withdrew Rs. 1000 p.m. at the end of every month for their personal use. Interest on drawings is to be charged @ 6% p.a. Calculate the amount of interest on drawings.
- 4) X, Y and Z were partners, sharing profits in the ratio of 2 : 2 : 1. Z was guaranteed a minimum profit of Rs. 20,000. The profits of the firm for the year ended 31.03.2019 were Rs. 80000. Prepare Profit & Loss Appropriation Account.
- 5) On 1.4.2018 Anaya and Somya started a business and invested Rs. 60,000 and Rs. 80000 respectively as their capital. On 30.09.2018 Somya brought an additional capital of Rs. 20000 whereas Anaya withdrew Rs. 10000 from her capital on 1.12.2018. Interest on capital is allowed @ 5% p.a. Calculate the amount of interest allowed to both the partners at the end of the year when profits amounted to Rs. 1,00,000.

### SHORT ANSWER TYPE QUESTIONS (4 MARKS)

- 1) Rohit and Sanjay started a partnership business on 1<sup>st</sup> April 2018. Their capital contribution were Rs.

2,00,000 and Rs. 10,00,000 respectively. The partnership deed provided :

- i) Interest on capitals @ 10% p.a.
- ii) Rohit to get a salary of Rs. 2,000 p.m. and Sanjay Rs. 3,000 p.m.
- iii) Profits are to be shared in the ratio of 3 : 2.

The profits for the year ended 31<sup>st</sup> March 2019 before making above appropriations were Rs.2,16,000.

Interest on drawings amounted to Rs. 2,200 for Rohit and Rs. 2,500 for Sanjay. Prepare Profit & Loss Appropriation

A/c.

2) Suman and Poonam are partners in a firm sharing profits and losses in the ratio of 2 : 3. Their capitals are Rs. 1,00,000 and Rs. 2,00,000 respectively on which they are entitled to get interest @ 5% p.a. In the year 2018-19, the firm earned a profit of Rs. 12000. Prepare Profit and Loss Appropriation A/c to show the distribution of profits between partners.

3) Nehal, Andrew and Sujal are partners in a firm sharing profits in the ratio of 2 : 3 : 5. On 1<sup>st</sup> April 2018, their capitals were Rs. 50,000 , Rs. 80,000 and Rs. 60,000 respectively on which they were entitled to get interest @ 10% p.a. The accountant omitted to allow interest on capital while distributing profits of Rs. 49000 at the end of the year. Pass necessary journal entry to rectify the error.

4) A, B C and D are partners in a firm sharing profits in the ratio 1 : 2 : 3 : 5. Interest on drawings is charged @ 5% p.a. Calculate interest on drawings in the following cases :

- a) When A draws Rs. 2000 p.m. at the end of every month
- b) When B draws Rs. 3000 p.m. at the middle of every month
- c) When C draws Rs. 10000 during the year.
- d) When D draws Rs. 4000 at the beginning of every two months.

5) Neha and Serna are partners in a firm sharing profits in the ratio of 2 : 3. Their fixed capitals are Rs. 40,000 and Rs. 50,000 respectively. As per partnership deed, partners are entitled to get interest on capital @ 10% p.a.. The firm earned profits of Rs. 30000 during the year 2018-19 which was distributed between the partners equally without considering the partnership deed. Pass necessary journal entry.

### LONG ANSWER QUESTIONS (6 MARKS)

1) X and Y are partners in a firm sharing profits and losses equally. Their capitals as on 1.4.2018 are Rs. 1,00,000 and Rs. 2,00,000 respectively. They are entitled to get interest on capital @ 10% p.a. Y is also entitled to get a commission of 5% on profits before charging his commission but after allowing interest on capitals.

During the year 2018-19, the firm earned profits of Rs. 80000. Show the distribution of profits and calculate how much amount each partner gets.

2) A, B and C entered into partnership on 1st April, 2018 to share profits & losses in the ratio of 4:3:3. A, however, personally guaranteed that C's share of profit after charging interest on Capital @ 5% p.a. would not be less than Rs. 40,000 in any year. The Capital contributions were:

A, Rs. 3,00,000; B, Rs. 2,00,000 and C, Rs. 1,50,000. The profit for the year ended on 31st March, 2019 amounted to Rs. 1, 60,000. Show the Profit & Loss Appropriation Account.

3) Anandi and Khushi are partners in a firm. Their capitals are Rs. 60,000 and Rs. 80000 respectively. They are entitled to get interest on capital @ 10% p.a. Anandi gets Rs. 5000 p.a. and Khushi gets Rs. 500 p.m. as salary. At the end of the year 2018-19, there was a profit of Rs. 50000. Anandi has personally guaranteed Khushi, a minimum profit of Rs.15000, excluding interest on capital and salary. Show the distribution of profits between the partners and calculate the amount shared by both the partners.

4) Putul and Srishti are partners in a firm. Their profit & Loss sharing ratio is 2 : 3. Their capitals are Rs. 30000 and Rs. 40000 respectively. As per partnership :

a) Partners are entitled to get interest on capital @ 10% p.a.

b) Both the partners are entitled to get salary of Rs. 5000 p.a.

The firm earned a profit of Rs. 13,600 during the year 2018-19. Show how the amount of profits will be distributed between the partners and how much does each partner get.

5) A, B and C are partners in a firm sharing profits in the ratio of 1 : 4 : 5. The partnership provides the following :

i) All partners are entitled to get interest on capital @ 10% p.a.

ii) Interest on drawings is to be charged @ 5% p.a.

iii) A should get a salary of Rs. 5000 p.a.



Capitals of the partners are Rs. 2,00,000 each. A and B drew Rs. 20000 each during the year 2018-19.

Inadvertently, the accountant distributed the profits of Rs. 90000 equally among the partners. Pass necessary journal entry.

### **LONG ANSWER QUESTIONS (8 MARKS)**

1) X, Y and Z are partners in a firm. Their capitals are Rs. 20,000 , Rs. 30,000 and Rs. 40,000 respectively. As per the partnership deed :

- i) Partners are entitled to get interest on capital @ 10% p.a.
- ii) Y and Z are entitled to get salary of Rs. 500 p.m. and Rs. 2000 p.a. respectively.
- iii) Interest on drawings is to be charged @ 5% p.a.

During the year 2018-19, X and Y withdrew Rs. 10000 each whereas Z withdrew Rs. 20000 for their personal use. The firm earned profits of Rs. 82000. Prepare Profit & Loss Appropriation A/c.

2) A, B and C entered into partnership on 1st April, 2018 to share profits & losses in the ratio of 2:3:5. Partners are entitled to get interest on capital @ 5% p.a. A and B will get salary @ Rs. 500 p.a. where C will get salary of Rs.8000 p.a. A and B, however, guaranteed that C's share of profit including interest on Capital and salary would not be less than Rs. 1,00,000 in any year. Deficiency, if any, will be borne by A and B in the ratio of 1: 4. The Capital contributions were: A, Rs. 3,00,000; B, Rs. 2,00,000 and C, Rs.2,00,000.

The profit for the year ended 31st March, 2019 amounted to Rs. 2,00,000. Show the Profit & Loss appropriation Account.

3) Ajay, Vijay and Sanjay are partners in a firm sharing profits in the ratio of 1 : 4 : 5. Their fixed capitals are Rs. 100000 each. As per the partnership deed :

- a) Partners are entitled to get interest on capital @ 5% p.a.
- b) A will get salary of Rs. 5000 p.a. and B will get a commission of Rs. 10000 p.a.
- c) Interest on drawings will be charged @ 5% p.a.

During the year 2018-19, partners made drawings of Rs.20000 each. Profits earned by the firm was Rs. 90000. The accountant omitted to consider the partnership deed and distributed the profits equally among partners.



Pass necessary journal entry. Show the working note clearly.

4) Amit and Sumit commenced business as partners on 01.04.2018. Amit contributed Rs. 40000 and Sumit Rs. 25000 as their share of capital. The partners decided to share their profits in the ratio of 2:1. Amit was entitled to salary of Rs. 6000 p.a. Interest on capital was to be provided @ 6% p.a. The drawings of Rs. 4000 was made by Amit and Rs. 8000 was made by Sumit. The profits after providing salary and interest on capital for the year ended 31st March 2019 were Rs. 12000.

Draw up the capital accounts of the partners :

a) When capitals are fluctuating

b) When capitals are fixed.

5) Ram and Shyam invested Rs. 20000 and Rs. 10000. Interest on capital is allowed @ 6% p.a. Profits are shared in ratio of 2 : 3. Profits for the year ending 31.03.2019 is Rs. 1500. Show allocation of profits when partnership deed.

(a) Allows interest on capital & deed is silent on treating interest as charge.

(b) Interest is charge against profit.

## BUSINESS STUDIES (2022-23)

### CLASS-XII

(Assignment)

Case Studies –

#### (Chapter -1) Nature and Significance of Management

Q. 1. In a country named Wonderland acting is considered as a profession. Whosoever has to become an actor has to read books written about acting. These books tell the nuances of acting and without reading these books one can't be considered as an actor. To judge the ability of an actor an examination is conducted and then a degree is assigned to the qualified persons who can then act in films. There is also a body which provides membership to all actors. There are about thirty thousand actors in wonderland who are compulsorily members of this organisation.

What are the three features of profession highlighted here? Also identify the lines highlighting

these features? (3 marks)

Q. 2. Volvo Ltd's target is to produce 10000 shirts per month at a cost of Rs. 100/- per shirt. The Production Manager achieved this target at a cost of Rs. 90/- per shirt. Do you think the 'Production Manager' is effective? Give one reason in support of your answer. (1 mark)

Q. 3. Josh Enterprises decides to have a meeting of all the key employees of different departments in the organisation. The main motive is to tell the employees to keep the target of 20% increase in sales as the main objective when they work throughout the year. The meeting is full of ideas regarding the employees and processes involved. Various plans are made to harness the potential of the employees and streamline the processes. However with the passage of a few days the external business environment checks the capability of the organisation to adapt to the situations. The company successfully comes out at the end of the year with flying colours. What are the various characteristics of management you can find highlighted here? Also identify the lines in which these characteristics have been highlighted. (5 marks)

Q. 4. Aman, Ahmad and Ally are partners in a firm engaged in the distribution of dairy products in Maharashtra state. Aman is a holder of Senior Secondary School Certificate from Central Board of Secondary Education with Business Studies as one of his elective subjects. Ahmad had done his post graduation in History and Ally in dairy farming. One day there was a serious discussion between Ahmad and Ally regarding the nature of management. Ahmad argued that management was a profession whereas Ally argued against it saying that the legal and medical professions are the only professions because they fulfill all the conditions of profession. Aman on the basis of his knowledge of business studies explained the nature of management as a profession to Ahmad and Ally. Explain, how Aman would have satisfied both Ahmad and Ally. (6 marks)

Q. 5. To meet the objectives of the firm, the management of Bhavya Ltd. offers employment to physically challenged persons. Identify the organizational objective it is trying to achieve. Give reason in support of your answer. (1 mark)

Q. 6. B Ltd. wants to modify its existing product, CD players in the market due to decreasing sales. What decisions/steps should each level of management take to give effort to this decisions? (6 marks)

Q. 7. XYZ Ltd. is a management oriented company. Time and again all the employees learn from their seniors various ways of dealing with diverse situations. They are provided training whenever required. They are also given incentives both financial as well as non financial. The result is employees see their development in the organisation. The organisation tries to behave as a responsible constituent of society and always creates good quality products. It has a very good image in the market. The training modules are superb and the employees always try to find unique ways of providing solutions in the context of rapidly changing business environment. This has helped the organisation to adjust frequently in a very good manner. Which importance of management is highlighted here? Also identify the lines. (5 marks)

## (Chapter -2)Principles of Management

Q. 1. Suresh works in a bulb manufacturing company. Each bulb which is manufactured is of standard size and quality. Further if there is any unrequired type of bulb manufactured then its production is stopped. Last month when the company came to know that 10 watt bulbs were no more liked by customers, their production was stopped. He works in the purchase department. His job is to purchase the filaments required to make bulbs. This time when he purchases the filament he gets the instruction from the seller that some special care needs to be taken in the first hour of fixing the filaments inside the bulb. Suresh knows this information should be given immediately to the production department before the assembling process starts. However he finds that his company's policies only allow him to give the message to his immediate boss who will further pass this message to his boss. The passing of this message will continue till it reaches the desired person in the production department.

Which technique of management is followed here? Also name the principle of management followed here by the company? Which option is now available to Suresh since the company is not allowing him to interact with the concerned worker in the production department? (3 marks)

Q. 2. The production manager of an automobile company asked the foreman to achieve a target production of 200 scooters per day. But he did not give him the authority of requisition tools and materials from the stores department. Can the production manager blame the foreman if he is not able to achieve the desired target? Explain briefly the principle relating to the situation.

(3 marks)

Q. 3. Soniya Ltd. was engaged in the business of manufacturing auto components. Lately, its business was expanding due to increased demand for cars. The competition was also increasing. In order to keep its market share intact, the company directed its workforce to work overtime. But this resulted in many problems. Due to increased pressure of work the efficiency of workers declined. Sometimes, the subordinates had to work for more than one superiors. The workers were becoming indisciplined. The spirit of teamwork, which had characterized the company previously, had begun to wane. Identify any three principles of management (as given by Henry Fayol) which were begun violated, quoting the lines from the above case.

(3 marks)

Q. 4. Rajesh wants to become an ideal manager. For this he reads many management books. After reading various broad and general guidelines he prepares to apply them and make his work more meaningful. The necessary outcome will be his improved output.

Which concept of management has been highlighted here? (1 mark)

Q. 5. Pakka employment is a company which takes care of the fact that the confidence of the employees should always be at its peak. For this reason they give surety to their employees for employment for a minimum fixed tenure of time. Which principle of management is followed here? (1 mark)

Q. 6. Every year a meeting is organized in the lawns of the owner of a company. In this meeting the owner of the company grants some funds for the benefit of the families of the employees. The employees on the other hand never resist any change or put excessive demands. The general environment in the company is very supportive to the employees. The employee turnover ratio is very low. Which concept of management is discussed here? Which principle of management will be easily followed here? (4 Marks)

### (Chapter-3)BusinessEnvironment

Q. 1. 'The first masters' is a leading advertising company in its industry. Recently they had a meeting in which all the reasons which were outside the control of the organisation were discussed. The organisation wanted to maintain its supremacy in the market. They decided to break the meeting into two parts. In the first part customers, competitors, suppliers, etc. were discussed where as in the second part the political, economic, social conditions in the country were discussed. It was concluded that company was doing extremely well in the domestic market and the client base was expanding. However when the company's performance in foreign markets was evaluated it was found that conditions were different in different countries so the strategies adopted would have to be different. After the meeting the company was looking forward to making new gains.

Which features of Business Environment have been highlighted in the above case? Also identify the line (4 marks)

Q. 2. Bright Services is a taxi service provider. The company is targeting a revenue of 50 crore rupees this year. However with the passage of time it has found entrance of new service providers in the market which was not expected at one stage of time. It has a good team of technicians, drivers, software providers, etc. The company has decided to make it adaptable to such continuously changing circumstances. It knows that if it has to expand in new countries it will have to learn the basic differentiating factors like traffic rules, technological aspects, etc. Thus it understands that conditions are different in different countries.

Which features of Business Environment are discussed in the above case? Which force is discussed above? (5 marks)

Q. 3. The court passed an order that all schools must have water purifier for the school children as

1. Society in general is more concerned about quality of life.
2. Innovative techniques are being developed to manufacture water purifier at competitive rates.
3. Incomes are rising and children at home are also drinking purified water.

The government is also showing positive attitude towards the water purifier business. Identify the different dimensions of business environment by quoting from the above details. (5 marks)

Q. 4. A company is a component of market. It utilises various raw materials, labour force, human resources, power, water, other sources, etc. When all these resources are utilized output is produced. But before output is produced the input has to go through various operations. These operations convert the raw materials into final products which are then sold in the market.

In the above paragraph which importance of Business Environment is highlighted?

(1 mark)

Q. 5. The market is flooded with better quality toys of foreign origin. The result is fall in revenue of the indigenous or local companies as their products are much inferior and are also costlier in less demand in the market.

Which dimension of Business Environment can be seen here affecting the local companies' revenue? (1 mark)

Q. 6. Advertisements of a protein supplement must inform the potential buyer that the product if taken beyond a given dose can be harmful to the diabetics.

Which dimension of business environment is highlighted here? (1 mark)

Q. 7. Due to entry of foreign firms, competition for Indian firms has increased, especially in service industries. Name such service industries. (1 mark)

Q. 8. We can expect high sale of sarees in India but we can't expect the same in Which feature of business environment is discussed in the previous line? (1 Mark)

## ECONOMICS(2022-23)

### CLASS-XII

**Writing Work:** Solve the below assignment in your fair notebook.

b) Complete the notes of Ch- 1, 2 and 3 of Indian economy shared in the whatsapp group in your fair notebook.

### **Learning Work:**

Macro Economics:

Ch- 5(Money)

Ch-6(Banking)

Ch-10(Government Budget)

Ch-11(Foreign Exchange)

Ch-12(Balance of Payments)

**Art Integration Project Work:** Make an innovative and creative project/model on any one of the following topics:

1. Money
2. Banking System.
3. Balance of Payment
4. Foreign Exchange
5. Government Budget

**Unit: Government Budget and the Economy**

1. An example of a direct tax is (1)
  1. Entertainment tax
  2. VAT
  3. Income Tax
  4. Sales tax
2. Fiscal deficit is equal to borrowings. It is (1)
  1. False
  2. True
  3. Can't say
  4. Insufficient information
3. Public expenditure can be unplanned only (1)
  1. Insufficient information
  2. True
  3. Can't say
  4. False
4. Define an indirect tax. (1)
5. Whether subsidies on diesel is a revenue or capital expenditure. Justify your answer. Mention any one way to reduce the consumption of diesel. (1)
6. What is equilibrium rate of exchange? (1)
7. Define Surplus Budget. (1)
8. Giving reasons, classify the following into direct and indirect tax. (2)
  1. Wealth tax
  2. Value added tax
  3. Custom Duty
  4. Goods and Service Tax
2. Give the meaning of revenue deficit, fiscal deficit and primary deficit. (3)
3. Give the relationship between revenue deficit and fiscal deficit. (4)
4. Discuss the issue of deficit reduction. (4)
5. Tax rates on higher income group have been increased. Which economic value does it reflect? Explain. (4)
6. Distinguish Between current account and capital account. (6)
7. Find borrowing by Government if payments of interest is estimated to be of 15,000 crores which is 25% of primary deficit. (3)
9. Comment on the following statement true or false, with reason (1) Construction of school building is revenue expenditure of the government. (2) Gift tax is capital receipt. (3) Dividends on investment made by government is a revenue receipt. (4)
10. Categories the following government receipts into revenue and capital receipt. Give reason for your answer. (1) Receipt from sale of shares of public sector undertaking. (2) Borrowing from public. (3) Profit of public sector undertaking. (4) Income tax received by government.



(4)

11. There carefully planned, government budget reflects deficit because its expenditure exceeds revenue. How can this deficit be reduced? (3)
12. How can government budget be a useful instrument in reducing inequalities in the distribution of income and wealth? (3)
13. What is the relationship between the revenue deficit and the fiscal deficit? (3)
14. Give example of non-tax revenue receipts? (1)
15. What is tax? (1)

### Unit: Money and Banking

1. The broad definition of money is based on (1)
  1. Medium of payment function
  2. Transferability of money
  3. Store of value function
  4. Cant' say
2. The process of money creation or credit creation is done by (1)
  1. commercial banks
  2. Central bank
  3. World bank
  4. Rural bank
3. Bank rate is for (1)
  1. Commercial banks by the government
  2. Commercial banks by the central bank
  3. Central banks by the central bank
  4. Central bank by the commercial banks
4. One of the functions of Central Bank among the following is (1)
  1. Custodian of banks
  2. Custodian of deliveries
  3. Custodian of foreign exchange
  4. Custodian of securities
5. State the components of money supply. (1)
6. What is included in money supply? (1)
7. Give the meaning of cash reserve ratio. (1)
8. What is reverse repo rate? (1)
9. Explain any two functions of a Central Bank. (3)
10. Explain the "Bankers' Bank function" of the central bank. (3)
11. Explain how open market operations are helpful in controlling credit creation. (4)
12. Explain 'banker to the government' function of the Central Bank. (4)
13. What is meant by statutory liquidity ratio (SLR)? State the effect of rise in rate of SLR on creation of credit. (4)
14. Explain the problem of double coincidence of wants faced under barter system. How has money solved it? (6)
15. How does the Central Bank control credit creation in the economy through open market operation and bank rate? Explain. (6)



16. What is Money? (1)
17. What is Barter system? (1)
18. Define the term Money Supply & state its constituents. (3)
19. Define the term Commercial bank. (1)
20. What are the different types of deposits held by the Commercial Banks? (4)
21. Define the term Central Bank & explain its functions. (6)
22. Define credit multiplier. (1)
23. How is quantitative credit control different from qualitative credit control? (3)
24. How can 'Jan-Dhan Yojana' used as an instrument to increase supply of money by the commercial banks? (3)

### Unit: Balance of Payments

1. The demand curve for foreign exchange is (1)
  1. Downward sloping
  2. Upward sloping
  3. Horizontal
  4. Vertical
2. Point out a demerit of fixed exchange rate (1)
  1. BOP surplus countries face inflation
  2. Has no effect on the stock of gold in BOP surplus countries
  3. BOP surplus countries face inflation
  4. Government interference
3. Point out a demerit of fixed exchange rate (1)
  1. BOP deficit countries run down the stock of gold
  2. Central Bank is the decision maker.
  3. BOP surplus countries run down the stock of gold
  4. Has no effect on the stock of gold
4. If CDA (Capital Development Authority, Islamabad) gets a loan from World Bank for roads, it will be recorded in the balance of payments in section: (1)
  1. Capital account
  2. Invisible balance
  3. Visible balance
  4. Official financing
5. What is balance of payment accounts? (1)
6. What is a fixed exchange rate? (1)
7. Give the meaning of managed floating exchange rate. (1)
8. What is fixed exchange rate? (1)
9. Give the meanings of devaluation and depreciation of domestic currency. (3)
10. Describe any three sources of supply of foreign exchange. (3)
11. Explain the impact of Devaluation of domestic currency on the export and imports of an economy. (4)
12. Give the meaning of favourable balance of payments. (4)
13. The Central Bank takes steps to control rise in the price of foreign exchange. Explain the economic values it involves as far as the common man is concerned. (4)

14. Discuss the components of capital account. (6)
15. Distinguish between autonomous and accommodating transactions of balance of payments account. (6)
16. How is exchange rate determined in the foreign exchange market? Explain. (4)
17. State the Items included in BOP account. (4)
18. Explain the Structure of BOP: BOP account is categorized into Current Account & Capital Account. (4)
19. Differentiate between BOP on current account & capital account. (3)
20. State the causes for disequilibrium in BOP. (3)

## XII(Hum)

**Learning Work:** Learn and revise Ch.1,2,3, 4 and 5 for your Coming Exams

**Writing Work:** Solve an Assignment in your Fair Register

**Creative Work:** Prepare a project in 15 pages about the following topics(Any one)

- (i) The mysteries behind the mound of dead –Mohenjo-Daro
- (ii) Buddha's Path to Enlightenment

### Assignment

1. How do archaeologists trace socio-economic differences in Harappan society? What are the differences that they notice? [Delhi, All India 2009, 2011] (3)
2. Would you agree that the drainage system in Harappan cities indicates town planning? Give three reasons for your answer (3)
3. Describe some of the distinctive features of Mohenjodaro. [Delhi 2013] (3)
4. Discuss five functions that may have been performed by rulers in Harappan society (5)
5. Describe five salient features of mahajanapadas. (5)
6. List five problems which were faced by epigraphists. (5)
7. Discuss the main features of Mauryan administration. Which of these elements are evident in the Asokan inscriptions that you have studied? (5)
8. This is a statement made by one of the best-known epigraphists of the twentieth century, D.C. Sircar: "There is no aspect of life, culture, activities of the Indians that is not reflected in inscriptions." Discuss any five arguments. (5)
9. Compare and contrast the dharma or norms mentioned in the stories of Drona, Hidimba and Matanga. (Any five points) (5)
10. Discuss whether the Mahabharata could have been the work of a single author (Any 5 points) (5)
11. How important were gender differences in early societies? Give five reasons for your answer. (5)
12. Discuss the evidence that suggests that Brahmanical prescriptions about kinship and marriage were not universally followed. (5)
13. Summarise any five central teachings of Jainism. (5)

14. Why do you think women and men joined the sangha? (Any five points)

(5)

15. Discuss the development in sculpture and architecture associated with the rise of Vaishnavism and Shaivism. (Any five points)

(5)

16. Analyse the evidence for slavery provided by Ibn Battuta. (Any five points)

(5)

17. Discuss five points about Al-Biruni's understanding of the caste system.

(5)

18. Discuss the extent to which Bernier's accounts enables historians to reconstruct contemporary rural society.

(5)

19. Locate the following centres on the world map.

- |             |               |             |              |
|-------------|---------------|-------------|--------------|
| (i) Morocco | (ii) Mecca    | (iii) Syria | (iv) Iraq    |
| (v) Persia  | (vi) Yamen    | (vii) Oman  | (viii) China |
| (ix) India  | (x) Maldives. |             |              |

20. Choose the correct options.

1. Which of these French travellers came to during 17th century?

- (a) Al-Biruni (b) Ibn-Battuta (c) Abul Fail (d) Francois Bernier

2. Who among the following belonged to Morocco?

- (a) Ibn Battuta (b) Al-Biruni (c) Francois Bernier (d) Abdul Samarandi

3. Who Wrote 'Kitab-ul-Hind'?

- (a) Callin Mcenzie (b) Al-Biruni (c) Abdul Samad Lahori (d) Ibn-Battuta

4. Islamic Law is known as \_\_\_\_\_

- (a) Shariya (b) Samr (c) Ulema (d) All of these

5. Ibn Battuta remained in India for \_\_\_\_\_ years.

- (a) 12 (b) 14 (c) 16 (d) 18

6. Which of the following cities, according to Ibn-Battuta, was the largest?

- (a) Surat (b) Delhi (c) Daulatabad (d) Agra

7. Who wrote the book, "Travells In The Mughal Empire"?

- (a) Francois Bernier (b) John Marshall (c) Callin Mcenzie (d) James Princep

8. Which among the following was the book written by Al-Biruni?

- (a) Rihla (b) Kitab-ul-Hind (c) Discovery of India (d) Arthashastra

9. Who founded Delhi as a city full of exciting opportunities?

- (a) Jbn-Battuta (b) Al-Biruni (c) Francois Bernier (d) Karl Marx

10. Choose the correct option:

(a) Ibn Battuta travelled extensively in China.

(b) Al-Biruni found the Indian cities quite populated.

(c) Al-Biruni was greatly influenced by the Indian postal system.

(d) According to Ibn-Battuta, crown ownership of land was quite disasterous for farmers.

## FINE ARTS

Learning work:-

Unit 1 -

A)Rajasthani school of painting

B)The pahari school

Writing:-

Make 50 MCQ from Unit 1 in notebook

Creativity:-

A)Make Collage of Rajasthani and pahari school paintings with details.

B) make chart size canvas on folk art

C) wall hanging or paper mache 3d art like peacock , camel, pегion