

## Assignment - 1 (2023-24)

Class : XI

**COMMERCE**

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### **ENGLISH (301)**

1. Prepare one A4 sheet for your class magazine on the theme 'Unity in Diversity'. You can use paper of any colour, material and decorate it.
2. Tracing the roots: Prepare a PPT tracing your family's ancestry and take a trip down the memory lane. Talk to your grandparents and find out about their roots and whereabouts.

### **ACCOUNTANCY (055)**

1. Accounting is an Art as well as a Science. Explain the statement.
2. Differentiate between Book Keeping & Accounting.
3. Explain any two limitations of Accounting.
4. Explain the qualitative characteristics of accounting information.
5. If the accounting information is not clearly presented, which of the qualitative characteristics of the accounting information is violated?
6. Define convention of materiality with example.
7. Prepare Accounting Equation from the following:-
  - (i) Started business with cash Rs.75, 000 & goods Rs.25,000.
  - (ii) Paid rent Rs.2,000.
  - (iii) Bought goods for cash Rs.30,000 & on credit for Rs.44,000.
  - (iv) Goods costing Rs.50,000 sold at a profit of 25% out of which Rs.27,500 received in cash.
  - (v) Purchased a Motor cycle for personal use for Rs.20,000.
  - (vi) Purchased furniture from Shyam for Rs.15,000.
  - (vii) Rent due but not received Rs.500.
  - (viii) Payment made to Creditors Rs.42, 000 in full settlement.
  - (ix) Rent paid Rs.12,000 for 15 months.
  - (x) Purchased a computer from computer plaza worth Rs. 45,000. 50% payment made in cash and remaining is to be paid three months later.
8. Prepare Accounting equation from the following :-
  - (i) Reema started business with cash Rs. 1, 50,000
  - (ii) Bought goods for cash Rs.80,000 & on credit for Rs.40,000.
  - (iii) Sold goods to Anil costing Rs.20,000 at a profit of 10% and allowed him 10% Trade Discount and 10% Cash Discount. Received half of the amount in cash and balance half by cheque.
  - (iv) 1/4th of the remaining goods were sold at a profit of 10% on cost and half of the payment was received in cash.
  - (v) Paid for rent Rs.2,000 & for salaries Rs.4,000.
  - (vi) Goods costing Rs.20,000 sold for Rs.18,500 for cash.
  - (vii) Wages Outstanding Rs.1,200.
  - (viii) Rent paid in advance Rs.1,100.
  - (ix) Commission received in advance Rs.600.

## **BUSINESS STUDIES (054)**

1. Write down and explain the characteristics of business.
2. Show the chart of classification of business activities.
3. Write down the difference between Business, Profession and Employment on the following basis:
  - a. Mode of Establishment
  - b. Nature of work
  - c. Qualification
  - d. Reward or return
  - e. Capital Investment
  - f. Risk
4. Explain the following:
  - a. Trade
  - b. Commerce
  - c. Auxiliaries to trade
5. Write a note on silk route and spice route as a trade medium in ancient times

## **ECONOMICS (030)**

### **STATISTICS FOR ECONOMICS**

1. "Economics is a study of scarcity". Discuss.
2. Briefly discuss the meaning of economic and non-economic activities.
3. How will you choose the wants to be satisfied?
4. What is the central point of Marshall's definition of economics?

### **MICRO ECONOMICS**

5. 'An economy may operate inside the PPC even if there is full employment of resources.' Defend or refute.
6. Economic slowdown in some parts of the world has led to a fall in demand for exports from India. What will be its effect on PPF of India?
7. Why the PPC is negatively sloped?
8. Explain the concept of Opportunity Cost and Marginal Rate of Transformation using Production Possibility Schedule based on the assumption that no resource is equally efficient in production of all goods.

## **ENTREPRENEURSHIP (066)**

1. Explain the case study of Mansukhbhai Prajapati's Mitticool refrigerator.
2. Explain the concept of Entrepreneurship.
3. Give advantages and disadvantages of being an entrepreneur.
4. Explain the following Promotional Functions:
  - a. Investigation of an idea
  - b. Detailed investigation
  - c. Financing the proposition
5. Explain the process of Entrepreneurship.
6. Write and explain the need of Entrepreneurship.

## **STANDARD MATHEMATICS (041)**

### **(SECTION A-1 mark questions)**

1. Write the roster form of  $H = \{x: x \in N \text{ and } 5 < x^2 < 50\}$ .
2. Give example of two sets whose intersection is an empty set.
3. How many subsets a set has containing 5 elements.
4. If  $n(A) = 8$  and  $n(B) = 4$  and  $B$  is a subset of  $A$  then find  $n(A \cap B)$ .
5. Define power set.

**(Section B- 2 mark questions)**

- Write all the subsets of the set  $\{\phi, 1\}$ .
- Find sets A, B and C such that  $A \cap B, B \cap C$  and  $A \cap C$  are non empty sets and  $A \cap B \cap C = \phi$ .
- Two finite sets having m and k elements. If the total number of subsets of the first set is 56 more than the total number of subsets of second set, then find m and k.
- For all sets A, B and C, is  $(A \cap B) \cup C = A \cap (B \cup C)$ ? justify your answer.
- If  $U = \{1,2,3 \dots , 10\}$ ,  $A = \{x: x \text{ is prime}\}$ ,  $B = \{x: x \text{ is even integer}\}$ . Then write the value of  $A \cap BC$ .

**(Section C – 4 mark questions)**

- A and B are two sets such that  $(A - B) = 14 + x$ ,  $(B - A) = 3x$  and  $(A \cap B) = x$ . Draw a Venn diagram to illustrate this information. If  $(A) = (B)$ , find (1) the value of x (2)  $(A \cup B)$ .
- A survey shows that 63% people watch news channel A whereas 76% watch news channel B. if x% watch both the channels , prove that  $39 \leq x \leq 63$ .
- If  $(A) = (B)$ , show that  $A = B$ .
- Let A and B be sets. If  $A \cap X = B \cap X = \phi$  and  $A \cup X = B \cup X$  for some set X, show that  $A = B$
- If A & B are two sets containing 12 and 20 elements respectively, what can be the minimum number of elements in  $A \cup B$ ? find also, the maximum number of elements in  $A \cup B$ .

**(SECTION D – 6 MARK QUESTIONS)**

- In a survey of 100 students, the number of students studying the various languages were found to be: English only 18, English but not Hindi 23, English and Sanskrit 8, English 26, Sanskrit 48, Sanskrit and Hindi 8, no language 24. Find how many students were studying Hindi.
- In an examination 80% students passed in Maths, 72% passed in science and 13% failed in both the subjects. If 312 students passed in both the subjects, find the total number of students who appeared in the examination.
- A college awarded 58 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.
- Out of 100 students, 15 passed in English, 12 passed in Maths, 8 in Science, 6 in English and Maths, 7 in Maths and Science, 4 in English and Science and 4 in all three. Find how many passed in
  - Maths and Science but not English.
  - In more than one subject.
- For sets A, B and C using properties of sets, prove that
  - $A - (B \cup C) = (A - B) \cap (A - C)$
  - $A - (B \cap C) = (A - B) \cup (A - C)$

**APPLIED MATHEMATICS (241)**

- Define binary number system and decimal number system
- Convert the following number in binary number:-
  - 569
  - 10000
  - 2345
  - 12498
  - 12656
- Convert into decimal number system.
  - 111011111
  - 1100001110001
  - 1110110011
  - 100000111
  - 11000111

4. Add the following binary number.
  - a) 111100011, 11010100
  - b) 10101111, 1111100
  - c) 1010111, 111100001
  - d) 1101111, 11111000
  - e) 10111011, 11110000
5. Subtract the following.
  - a) 11010 from 110101
  - b) 101 from 110
  - c) 1101001101 from 1110110010
6. What is characteristic and Mantissa.
7. Define natural logarithm and common logarithm.
8. Write all formulae of indices.
9. Find x:  $\log 3x = \log 2 + \log(x+4)$
10. Find x:  $\log(3+x) - \log(x-4) = \log 4$ .

### **PHYSICAL EDUCATION (048)**

1. Write any three objectives of physical education.
2. Discuss the main objectives of Indian Olympic association.
3. Write the motto of the modern Olympic game.
4. Elaborate the objectives of 'Khelo India' Programme.
5. Ram had been suffering from stress, tension and anxiety for the last three year. Now along with these problems, he is also facing severe depression. He has already consulted many doctors but has not found an appropriate solution. Ultimately, he met our yoga instructor. The yoga instructor taught him to perform yogic asanas, pranayamas and yoganidra. After about three months of regular practice, he was feeling well

Based on the above passage, answer the following question:

- a. What is yoga?
- b. What was the problem of Ram?
- c. What did the yoga instructor teach Ram to overcome his problems?

