

**ASCENT INTERNATIONAL SCHOOL, GR. NOIDA**  
**HOLIDAY HOMEWORK (2017 - 18)**  
**CLASS - XI (COMM.)**

**ENGLISH**

**I. Answer the following questions in 100-120 words.**

- a) Talk with your family about elderly people who have been intimately connected with you and are not there with you now . Write a short description of someone you liked at great deal
- b) Why do you think people undertake such adventurous expeditions in spite of the risk involved ?
- c) Did the boys return the horse because they were conscience-stricken or because they were afraid?
- d) 'The Address' is a story of human predicament that follows war. Comment.

**II. Draft the following short composition in 50 words.**

- a) You are the manager of the sunrise industries , Delhi Road, Bahadurgarh . You need two typist for your office . Write an advertisement in not more 50 words to be published in the 'situation vacant' column of a local newspaper .
- b) You are the manager of a leading industrial concern . You need a chartered accountant for your office. Draft an advertisement in not more than 50 words to be published in The Times Of India , New Delhi , under the classified column .
- c) Your family is moving out of Delhi since your father has been transferred . You want to sell off some household items at a reasonable rate . Draft an advertisement in not more than 50 words to be published in the classified column of a local daily giving necessary details .
- d) You are an industrial interested in purchasing new independent guest house in a very good locality of your city . Draft an advertisement in not more than 50 words to be published in a local daily .

**III. Long composition**

- a) As the sports instructor of APL Public school write a letter to your local dealer placing an orders for certain sports good .
- b) Lack of job opportunities in the rural areas is forcing people to migrate to cities. Every big city thus has a number of slums in it. Life in these slums is miserable. Write a letter in 120-150 words to the editor of a newspaper on how we can improve the living conditions in these slums . you are Karan/Karuna , M-114, Mall Road, Delhi.

**ACCOUNTANCY**

**PROJECT**

**Select a set of 15 transactions and write accounting equations.**

Accounting principles are not static, information contained in accounting may be manipulated by the accountant. There are several methods of recording the value of unsold stock or charging

depreciation etc by adopting different methods, the position of net profit or assets can be increased or decreased depending on the management. It means accounting is subject to window dressing and it fails to depict the true financial position of the enterprise, if accounts were not drawn properly. Identify the value being violated in the above limitation of accounts. State any four advantages of account.

1. Which moral values related to reliability are highlighted in qualitative information of accounting?
2. Which moral values related to relevance are highlighted in qualitative information of accountancy?
3. Business is treated as an entity which is separate and distinct from its owner? Identify the values reflected in this case.
4. Identify the values reflected in full disclosure principle.
5. Identify values involved in Going concern concept assumption.
6. Identify values involved in prudence principle.
7. State the value which is highlighted by following accounting period concept.
8. Which values are followed in case of accounting standards issued by the CA?
9. Identify the value which is involved in the accounting equation

## **ECONOMICS**

Prepare a project report on the following topic :

### **1. Credit : Buy now and Pay more later.**

In this project, students will calculate the cost of items purchased on credit. This project is designed to open the students' eyes to how interest can affect the actual price they pay for an item. Present the students with a items that someone would generally purchase on credit such as a car, furniture or even a shopping spree on credit cards. Have the students compute the price they actually paid for the items once interest has been factored in the equation.

## **BUSINESS STUDIES**

1. Make a project by visiting any nearest fastfood corner like pizzahut, dominos, mclds and collect information about their management and objective related to chapter 1 of bst as discussed in class (this should be your own research work).
2. Learn ch-1 and 2 of b.st for FA-I.
3. Write the summary of ch-1 and 2 on file sheet (word limit 200-250 wrds).
4. Select a local enterprise and find out the objectives. it pursues. Check why it does not pursue other objectives.
5. Complete worksheet

## **WORKSHEET - 1**

1. What is the base for differentiating the economic and non-economic activities?

2. Name the economic activity in which specialised knowledge is required.
3. "Profit is not an objective but a requirement of a business". Do you agree with this statement? Support your answer with reasons.
4. Why is commerce considered as the backbone of industry and other business activities?
5. Why does a businessman willingly undertake business risk?
6. Name the economic activity, which involves specialised knowledge and in which entry is restricted.
7. Name the tertiary industry, which removes hindrance of knowledge.
8. Business involves "only sale and exchange of goods for profit". Do you agree with this.
9. Which reward a businessman gets for bearing the risks?
10. 'Fishing' is what type of industry?

## WORKSHEET - 2

1. Name the enterprise involving single ownership.
2. Name the person who keeps his identity secret from outsiders.
3. What are different options to expand sole proprietorship business?
4. "One man control is the best in the world if that man is big enough to manage everything", Explain the statement.
5. Which form of business is suitable for following types of business and why?
  - a) Beauty parlour
  - b) small retail outlet
  - c) hotels
  - d) shopping malls
  - e) medium size trading concern
6. All members of a company sitting in a general meeting were killed by a bomb. Was the company wound up?
7. How can one identify from the name of the company that whether it is a private company or a public company?
8. Which form of business is the simplest form of business? Which form of business is the most complex form?
9. According to a partnership act 1932, it is not compulsory for a partnership firm to get itself registered, then why do partners prefer to get the firm registered?
10. Is registration of partnership firm compulsory?

## MATHEMATICS

1. If  $A \times B = \{(a, x), (a, y), (b, x), (b, y)\}$ . Find A and B.
2. Determine the domain and range of relation R defined by  $R = \{(x, x + 5) : x \in \{0, 1, 2, 3, 4, 5\}\}$ .
3. Of the members of three athletic teams in a certain school, 21 are in the basketball team, 26 in hockey team and 20 in football team. 14 play hockey and basketball, 15 play

hockey and football, 12 play football and basketball and 8 play all the three games. How many members are there in all ?

4. Find the domain and range of the function :  $f(x) = \sqrt{9 - x^2}$ .
5. Find the range of  $f(x) = \frac{x^2 - 3x + 2}{x^2 + x - 6}$ .
6. If X and Y are two set such that X has 40 elements,  $X \cup Y$  has 60 elements and  $X \cap Y$  has 10 elements, how many elements does have?
7. In a committee, 50 people speak French, 20 speak Spanish and 10 speak both. How many speak at least one of these two languages ?
8. List all the subsets of the set  $\{-1, 0, 1\}$
9. Write all possible relations on the set  $\{a, b\}$ .
10. Let f be the subset of  $Z \times Z$  defined by  $f = \{(ab, a + b) : a, b \in Z\}$ . Is f a function from to Z ? Justify your answer.
11. Find the domain and range of  $f(x) = -|x|$ .
12. In a group of 65 people, 40 like cricket, 10 like both cricket and tennis. How many like tennis only and not cricket? How many like tennis ?
13. If  $A = \{-1, 1\}$ , find  $A \times A \times A$ .
14. Write the Set  $\{x : x \text{ is a two - digit natural number such that the sum of its digits is } 8\}$
15. Write down all the subsets of the set  $A = \{1, 2, \{3, 4\}, 5\}$ .
16. In a group of 70 people , 37 like coffee, 52 like tea and each person likes at least one of the two drinks. How many people like both coffee and tea ? How many people like tea only and not coffee.
17. For nay two sets A and B prove that  $P(A \cap B) = P(A) \cap P(B)$ .
18. Write set  $A = \{2, 5, 10, 17, \dots\}$  in roster form.
19. 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 and I, 11 read both H and T, 8 read both T and I, 3 read all three newspapers. Find :
  - (i) The number of people who read at least one of the newspapers.
  - (ii) The number of people who read exactly one newspaper.
20. The angles of a triangle are in A.P. The number of degrees in the least is to the number of radians in the greatest as  $60 : \pi$ . Find the angles in degrees.
21. The moon's distance from the earth is 360000 kms and its diameter subtends an angle of  $30'$  at the eye of the observer. Find the diameter of the moon.
22. In a circle of diameter 40 cm the length of a chord is 20 cm. find the length of minor arc corresponding to the chord.
23. Find in degrees the angle through which a pendulum swings if its length is 50 cm and the tip describes an arc of length 10 cm.

24. A circular wire of radius 7.5 cm is cut and bent so as to lie along the circumference of a hoop whose radius is 120 cm. Find in degrees the angle which is subtended at the centre of the hoop.
25. The difference between the two acute angles of a right angle triangle is  $\frac{2\pi}{5}$  radians. Express the angles in degrees.
26. Find in degrees and radians the angle between the hour hand and the minute hand of a clock at half past three.
27. Prove that (i)  $\tan 225^\circ \cot 405^\circ + \tan 765^\circ \cot 675^\circ = 0$  (ii)  $\sin \frac{8\pi}{3} \cos \frac{23\pi}{6} + \cos \frac{13\pi}{3} \sin \frac{35\pi}{6} = \frac{1}{2}$  (iii)  $\frac{\cos 9^\circ + \sin 9^\circ}{\cos 9^\circ - \sin 9^\circ} = \tan 54^\circ$  (iv)  $\frac{\cos 8^\circ - \sin 8^\circ}{\cos 8^\circ + \sin 8^\circ} = \tan 37^\circ$ .
28. If  $\sin(A + B) = 1$  and  $\sin(A - B) = \frac{1}{2}$ , where  $0 \leq A, B \leq \frac{\pi}{2}$ , then find the values of  $\tan(A + 2B)$  and  $\tan(2A + B)$ .
29. Prove that:  $\frac{\sin A + \sin 3A + \sin 5A + \sin 7A}{\cos A + \cos 3A + \cos 5A + \cos 7A} = \tan 4A$ .
30. If three angles A, B, C are in A.P., prove that  $\cot B = \frac{\sin A - \sin C}{\cos C - \cos A}$ .
31. Show that (i)  $\cos 6x = 32 \cos^6 x - 48 \cos^4 x + 18 \cos^2 x - 1$  (ii)  $\frac{\sin x - \sin 3x}{\sin^2 x - \cos^2 x} = 2 \sin x$
32. Prove that  $(\sin 3x + \sin 5x + \sin 7x + \sin 9x)/(\cos 3x + \cos 5x + \cos 7x + \cos 9x) = \tan 6x$
33. Find  $\sin \frac{x}{2}, \cos \frac{x}{2}, \tan \frac{x}{2}$  if  $\cos x = -\frac{1}{3}$ , x in quadrant III.
34. Show that  $\tan 3x \tan 2x \tan x = \tan 3x - \tan 2x - \tan x$ .
35. Find value of (i)  $\cos(-1710^\circ)$  (ii)  $\cot(-\frac{15\pi}{4})$ .
36. Prove the following  
 (i)  $(\sin^8 \theta - \cos^8 \theta) = (\sin^2 \theta - \cos^2 \theta)(1 - 2 \sin^2 \theta \cos^2 \theta)$   
 (ii)  $(\sin \theta + \operatorname{cosec} \theta)^2 + (\cos \theta + \sec \theta)^2 = \tan^2 \theta + \cot^2 \theta + 7$   
 (iii)  $\sec^2 \theta + \operatorname{cosec}^2 \theta \geq 4$
37. If  $\cos \theta + \sin \theta = \sqrt{2} \cos \theta$ , Prove that  $\cos \theta - \sin \theta = \sqrt{2} \sin \theta$
38. If  $\sec \theta + \tan \theta = p$ , obtain the value of 6 trigonometric ratios in terms of p.
39. Find all other trigonometric ratios if  $\sin \theta = -\frac{2\sqrt{6}}{5}$  and  $\theta$  lies in quadrant III.
40. Find the values of the following (i)  $\cos(-480^\circ)$  (ii)  $\sin(-1125^\circ)$ .
41. If  $\sin A = \frac{3}{5}$  and  $\cos B = -\frac{12}{13}$ , where A is in 1<sup>st</sup> qd. And B is in 3<sup>rd</sup> qd., find following  
 (i)  $\sin(A - B)$  (ii)  $\cos(A + B)$  (iii)  $\tan(A - B)$
42. Find following (i)  $\tan 15^\circ$  (ii)  $\tan 105^\circ$  (iii)  $\cos 75^\circ$
43. If  $A + B = \frac{\pi}{4}$ , prove that:  $(1 + \tan A)(1 + \tan B) = 2$
44. Prove that  $\sin 10^\circ \sin 30^\circ \sin 50^\circ \sin 70^\circ = \frac{1}{16}$  and  $4 \cos 12^\circ \cos 48^\circ \cos 72^\circ = \cos 36^\circ$

45. Solve following for general solutions (i)  $\cos\left(\frac{3\theta}{2}\right) = \frac{1}{2}$  (ii)  $\tan\left(\frac{2\theta}{3}\right) = \sqrt{3}$  (iii)  $\sin 2\theta + \sin 4\theta + \sin 6\theta = 0$  (iv)  $\tan \theta + \tan 2\theta + \tan \theta \tan 2\theta = 1$  (v)  $\sin \theta + \sin 3\theta + \sin 5\theta = 0$ .
46. Prove that  $\sin 2x + 2 \sin 4x + \sin 6x = 4 \cos^2 x \sin 4x$ .
47. Prove that  $\sin 3x + \sin 2x - \sin x = 4 \sin x \cos \frac{x}{2} \cos \frac{3x}{2}$
48. Find  $\sin \frac{x}{2}, \cos \frac{x}{2}, \tan \frac{x}{2}$  if  $\cos x = -\frac{1}{3}$ ,  $x$  in quadrant III.
49. Find the general solution for  $\cos 3x + \cos x - \cos 2x = 0$ .
50. Find the degree measure corresponding to the following radian measures :  
 (i)  $\left(\frac{2\pi}{15}\right)^c$  (ii)  $\left(\frac{\pi}{8}\right)^c$  (iii)  $\left(\frac{1}{4}\right)^c$  (iv)  $-2^c$ .
51. Find the radian measures corresponding to the following degree measures :  
 (i)  $340^\circ$  (ii)  $75^\circ$  (iii)  $-37^\circ 30'$  (iv)  $5^\circ 37' 30''$ .

## PHYSICAL EDUCATION

1. Prepare any one game project work
  - a) Reo Olympic games
  - b) Common wealth game
  - c) Asian games
2. Complete worksheet and revise chapter 1 to 2 for unit test
3. What is physical education
4. What do you mean by integrated physical education
6. What is the schemes of sports authority of india
7. Write short on following
  - a) Career in book writing
  - b) Sports broad costing
  - c) sports journalism
8. Define the following points
  - a) physical fitness
  - b) physical wellness
  - c) life style
9. Describe the importance of healthy/positive life style
10. How can health threat be prevented through life style change? Discus in detail?
11. How many type of wellness? Explain? Write shortnote onfollowing-
  - a) Maintaining a healthy weight
  - b) Personal hygiene