ARMY PUBLIC SCHOOL KALUCHAK
HOLIDAYS HOMEWORK
CLASS - XID (2024 - 25)

HAPPY HOLIDAYS!!!

"SUMMER OFFERS A CHANCE TO SLOW DOWN AND RECONNECT WITH ONESELF. TAKE THIS OPPORTUNITY TO REFLECT ON YOUR JOURNEY, EVALUATE YOUR CHOICES, AND MAKE CONSCIOUS DECISIONS THAT ALIGN WITH YOUR VALUES AND DREAMS".

GENERAL INSTRUCTIONS TO BE FOLLOWED DURING THE VACATIONS:

- Reading is essential for those who seek to rise above the ordinary.
- Spend your quality time reading purposeful books, newspapers and magazines to enhance your daily dose of vocabulary.
- Holiday homework should be your authentic creative work.
- Holiday Homework will be assessed on the basis of creativity and efforts of the students .
- Drink plenty of water and juice to stay hydrated during the scorching summer.

CONNECT,COLLABORATE,CREATE AND COMMUNICATE

1. List any three advantages of accounting?

2. Book-keeping begins where accounting ends. Explain.

3. Give 2 examples of Capital receipts.

4. Mention different types of liabilities.

5. Confidence and trust that the reported information is a reasonable representation of the actual items and events, that have occurred, indicate which qualitative characteristic of accounting information.

6. State whether a large order of supply of goods received by the firm be recorded in books. Explain with reasons.

7. Appointment of a new managing director is not recorded in the books of accounts. Why?

8. What is a person to whom money is owed by a firm called?

9. Mr Raj, an electronic goods dealer, gifted a microwave of value Rs. 30,000 to his friend Rohan and recorded it in books as drawing. Is he correct?

10. Distinguish between financial accounting, cost accounting, and management accounting.

11. Distinguish between book-keeping, accounting, and accountancy.

12. Basic objective of accounting is to provide useful information to various users. Besides these, there are many other objectives of accounting. Explain any four of them.

13. Which principle states that the accounting data should be definite, verifiable and free from the personal bias?

14. The cost of a small calculator is accounted as an expense and not shown as an asset in financial statements of a business entity due to which concept?

15. Omission of paise and showing the round figures in financial statements is based on which concept?

16. The management of a firm is remarkably incompetent but the firms accountants cannot take this into account while preparing book of accounts of which concept?

17. An accountant has recorded advance received against sale of goods as 'advance against sale' and not sales. Is he correct in doing so? If yes name the accounting concept which requires so?

18. Why is it necessary for accountants to assume that business entity will remain a going concern?

19. 'Only financial transactions are recorded in accounting'. Explain the statement.

20. What is matching concept? Why should a business concern follow this concept? Discuss.

General Instructions :

➢ Read all instructions before starting task .
➢ Focus on understanding concepts deeply rather than completing tasks hastily.
➢ Ensure all work is your own and properly cited if referring to external sources.
➢ Do all questions in fair notebook.

1. Explain the various previleges enjoyed by private company over public company .

 2. Under which type of industry do oil refinery and sugar mills are classified?

3. Insurance is known as the tertiary industry. Explain.

4. A person sells his domestic furniture at a profit, will it be considered a business? Explain the characteristics of business which is being stressed upon.

5. No business is risk free in the light of this statement, explain the concept of business risk and it's any three causes

6. Tea is mainly produced in Assam, while cotton in Gujarat & Maharashtra but they are required for consumption in different parts of the country. How can this hindrance of place be removed? Also under what business activity will it be categorised.

Question No. 7 to 12 are based on the given text. Read the text carefully and answer the questions:

Manohar Das is the only owner of a T-shirt manufacturing factory. He enjoyed a considerable degree of freedom and took prompt decisions on all matters. But, now he was having a shortage of funds and therefore took a loan of ₹15 lakhs from a finance company for the expansion of his business. In the beginning, his business was running well but later on, he started incurring losses, and due to continuous losses he was not able to repay the loan. After receiving many reminders from the finance company, Manohar decided to close the business as he had the complete authority to do so. He sold all his machines and other assets and realized ₹10 lakh. he requested the finance company to settle his accounts at ₹10 Lakh. But the finance company refused, and on his failure to pay the total debt, it filed a case against him in court. Manohar gave an argument in the court that he had sold all his business assets, and the loan was taken by him for business, not for his personal use. So the finance company must settle the account at ₹10 lakh. The court did not agree with the argument of Manohar Das and gave the decision in favour of the finance company. He was ordered to pay the full amount of loan by selling off his personal assets.

7. Identify the form of business carried on by Manohar Das.

8. State the feature of the form of business identified in the given para which is considered by the court while giving the judgement.

9. State one advantage of the business form highlighted in the first para of the case study.

10. State one advantage of the form of business carried on by Manohar that has been highlighted in the second para.

11. Identify the limitation of the business form carried on by Manohar in the first para.

12. Identify the limitation of the business form carried on by Manohar in the secondpara.

13. Business is an institution organised on operated to provide goods and services under the incentive of private gain. Discuss.

14. An industry situated on the banks of a river is the least bothered about the pollution it is creating. What steps would you like to suggest to the firm to protect the environment from the dangers of pollution?

15. Ritika is a talented interior designer who has graduated from one of the best universities in India. She plans to start her own business which is easy to establish and where she can be her own boss.
a) Identify the form of business which is most suitable for Ritika? Give reasons
b.)Explain the characteristics of the form of business identified in the above question

16. Pari is excited about Diwali. She has informed her mother about decorating the house. However, her mother has instructed her to clean the house. Pari is confused as to how she can clean the house all by herself. Her mom tells her that she would not have to do it all by herself as someone else would be doing so. Pari asked why someone else would do the work for them. Mom replied that the work or services would be done for a fee. On the basis of above paragraphs, answer the following questions:
A. What are services?
B. Explain their characteristics.

17. Name the services which is related to the following cases:
i) Helps in removing hindrance of knowledge.
ii) Helps in removing hindrance of exchange.
iii) Helps in removing hindrance of time.

18. Dhruv, Sarthak and Dheeraj are three partners in a firm. The name of the firm is ' Friends Pustak Bhandar'. Dheeraj is a renowned businessman who allowed the use of his name by the firm but does not contribute capital. Sarthik had contributed the capital to the firm but does not participate in the management of the firm. Dhruv actively participates in the management and does the business on behalf of other partners.
Identify the type of partners discussed above.

19. Mr Akshay is a General Manager in a multinational company ,he gets rupees 150000 per month as a salary .on weekend he goes to nearby villages and teach some children ,he does not charge anything from them, he does it out of sympathy and concern for poor children this gave him mental and psychological satisfaction.
a) Working as General Manager in MNC refers to which type of human activity.
b) Teaching a student in villages is which type of human activity.
c) Explain both activities.
d)Identify the value followed by Mr Akshay

20. Jagmohan established a factory to manufacture formal Jackets and Blazers. Encouraged by the favourable response in the domestic market, Jagmohan now wants to export his products to Europe and develop export-worthiness. The government has set up various institutions for the benefit of such small-scale industries. Name the institution which can help Jagmohan in achieving his objective.

Q1. "Scarcity is the undercurrent of the economic problem and therefore of economics". Justify the statement.
Q2. What is an economic problem?
Q3. Differentiate between quantitative and qualitative data.
Q4. Elucidate few points of the limitations of statistics.
Q5. "Statistical methods are no substitute for common sense". Justify the statement.
Q6. Name the stages of statistical study and statistical tools for the presentation of the data.
Q7. Enlist the main features of statistics as a numerical data.
Q8. The government and policy makers make use of statistical data to formulate suitable policies of economic development. Illustrate with two examples.
Q9. Mark the following statements as true or false:
    (a) Statistics can only deal with quantitative data.
    (b) Statistics solve economic problem.
    (c) Statistics is of no use to economics without data.

Q10. You have unlimited wants and limited resources to satisfy them. Explain by giving two examples.
Q11. Distinguish statistics as a singular noun and a plural noun.
Q12. All statistics are data but all data are not statistics. Do you agree?
Q13. State the significance of statistics in the construction of economic theory and economic forecasting.
Q14. With respect to statistical data, why is it said that results are true but only on an average.
Q15. Define the following: (a) economic activity (b) consumption (c) production (d) saving (e) investment (f) descriptive statistics (g) inferential statistics

SUBJECT - ENGLISH
1. Describe the narrator's experience of early morning ride with his cousin Mourad.
2. Compare and contrast uncle Khosrove and cousin Mourad.
3. Did the boys returned the horse because they were conscience-stricken or because they were afraid? Explain. ?
4. What did John Byro mean when he said, "A suspicious man would believe his eyes Instead of his heart"? Explain.
5. The author's grandmother was a religious person. What are the different ways in which we come to know this?
6. Gradually the author and the grandmother saw less of each other and their friendship was broken. Was the distancing deliberate or due to the demands of the situation?Explain.
7. The grandmother herself was not formally educated but was serious about the author's education. How does the text support this?
8. Imagine that you are Khushwant Singh. Record the changes that came in your relationship with your grandmother as you grew up from kid to university student.
9. 'We're Not Afraid to Die … If We Can All Be Together' traces down the saga of hardship and

bravery as portrayed in this adventure story.

10. How did the children's presence and behaviour during the crisis affect the narrator?

11. How did the narrator and his companions save the boat from sinking?

12. "Optimism and courage help to tide over difficulties". How did the narrator succeed in searching the small island?

13. "Its silence silences", writes Shirley Toulson. The loss of her mother has milenced her. Do you think that this attitude of the poet is the right attitude to live life? Why? why not?

14. Happy moments are short-lived but provides a lifetime memory. They provide a cushion to bear the difficulties which the future has a store for you. Comment in the light of the poem 'A Photograph ' by Shirley Toulson.

15. The poet has paid a tribute to her mother. Similar instances can be seen in "The Portrait of a Lady". This made you think that writing about a loved one is much better than building their statues or drawing their portraits. Comment.

16. 'Both wry with the laboured ease of loss.' and'The sea appears to have changed less' depicts the nostalgic feelings. Comment.

ADVERTISEMENT WRITING

17. You are Harish/Harshita of 12, Seva Nagar, Pune. You want to sell your flat as you are shifting to another city for work. Draft a suitable advertisement in not more than 50 words to be published in The Pune Times under the classified columns.

18. Principal, Sunrise Global School, Agra requires a receptionist for her school. Draft a suitable advertisement in about 50 words to be published in the classified columns of a national newspaper giving all the necessary details of qualifications and experience required in the receptionist.

19. You want to let out a house. Prepare an advertisement to this effect, for publication in a newspaper giving the location of the building, nature of accommodation, rent expected, etc.

20. You have lost your briefcase containing important business documents while travelling in the Shatabdi Express from Chandigarh to New Delhi. Draft an advertisement for the Lost and Found section of the classified advertisements of a national daily. Offer suitable details/rewards. You are Vineet/Vineeta of 1164, Sector 11, Chandigarh.

SUBJECT - PHYSICAL EDUCATION

1. Define Physical Education. How has its definition evolved over the years?

2. Explain the significance of Physical Education in the modern educational system.

3.Discuss the role of technology in enhancing physical education programs.

4.What are some contemporary issues and challenges faced by physical education today?

5.How has the curriculum of Physical Education changed in the last decade?

6.Explain the importance of inclusive physical education.

7.Discuss the impact of globalization on physical education.

8. What are the various career opportunities available in the field of Physical Education?

9. What is Olympism, and what are its fundamental principles?

10.Explain the historical background of the Olympic Games.

11.Discuss the role of Pierre de Coubertin in the modern Olympic movement.

12. How does Olympism promote international understanding and peace?
13. What values are emphasized through Olympic education?
14. Explain the concept of fair play and its importance in sports.
15. Discuss the significance of the Olympic Charter.
16. What is obesity, and what are its main causes?
17. How can physical activity and yoga help in preventing obesity?
18. Describe three asanas that are particularly effective in managing obesity.
19. Explain the benefits of Surya Namaskar in weight management.
20. Discuss the role of diet along with asanas in preventing obesity.

<mark>SUBJECT - MATHS</mark>

Q1. Find the value of $\dfrac{\cos(90^0 + \theta)\sec(-\theta)\tan(180^0 - \theta)}{\sec(360^0 - \theta)\sin(180^0 + \theta)\cot(90^0 - \theta)}$

Q2. Evaluate $Cos\left(\dfrac{-31\pi}{6}\right)$.

Q3. If A is the set of all prime numbers and P = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9} then evaluate: (A-P)∩ (P-A)

Q4. Find the value of $\sin\dfrac{\pi}{8}$

Q5. Find the radian measure corresponding to the degree measure 5^0 37'30"

Q6. Provethat: $\sin(-420^0) \cos(390^0) + \cos(-660^0) \sin(330^0)$ = -1

Q7. Find the domain and range of the following function:

a)   f(x) = | 2x-9 | b). f(x) = $\sqrt{16 - x^2}$ c). f(x) = $\dfrac{1}{\sqrt{1-x}}$

Q8. (a) Two finite set have m and n elements. The total number of subsets of the first set is 56 more than the total number of subsets of the second set. Find the value of m and n. Also show that
 (b) If P(A) = P(B), then A = B.

Q9. If cos α + cos β + cos Ɣ = 0 then prove that cos 3α + cos 3β + cos 3Ɣ = 12 cos α cos β cos Ɣ

 b). $\dfrac{sec\,8x-1}{sec4x-1} = \dfrac{tan8x}{tan2x}$

Q10. Sytam who is students of class XI got a maths assignment from his class teacher. He did all the questions except a few. If the value of sin x = $\dfrac{3}{5}$ and cosy = $\dfrac{-12}{13}$, where x and y both lies in second quadrant then help sytam in solving these questions:

        1.) What will be the value of cos x ?
        2.) What will be the value of sin y ?
        3.) What will be the value of sin (x + y)
        4.) Find the value of sin 75^0

Q11. Find the domain of following: $\sqrt{4-x}+\dfrac{1}{\sqrt{x^2-1}}$

Q12. Is g = {(1, 1), (2, 3), (3, 5), (4, 7)} a function, justify? If this is described by relation $g(x) = \alpha x + \beta,$ then what is the value of α and β.

Q13. Convert 6 radians into degree measure. (Use $\pi = \dfrac{22}{7}$)

Q14. Prove that: cot 4x (sin 5x + sin 3x) = cot x (sin 5x – sin 3x)

Q15. If sin x = $\dfrac{3}{5}$, cos y = $-\dfrac{12}{13}$, where x and y both lie in 2nd quadrant, find the value of sin(x + y).

Q16. 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 chemical C_1 and C_2. Find the number of individuals

    (i) C_1 but not C_2 (ii) C_2 but not C_1 (iii) C_1 or C_2

Q17. In a city school during the admission to class XI, 18 students took English, 23 students took Hindi and 24 students took Sanskrit. Of these, 13 took both Hindi and Sanskrit, 12 took both English and Hindi and 11 took both English and Sanskrit. Due to the request made by some students, the school authorities decided that 6 students will be offered all the three languages.

Based on the above information answer the following questions.
(i) Find the total number of students who took admission in class XI.
(ii) How many students took Sanskrit but not Hindi?
(iii) How many students took exactly one of the three subjects?
(iv) How many students took exactly two of the three subjects?

Q18. If $f(x) = \dfrac{x-1}{x+1}$ then prove that $f(2x) = \dfrac{3f(x)+1}{f(x)+3}$

Q19. In a survey of 40 students. It was found that 21 had taken mathematics, 16 had taken physics and 15 had taken chemistry, 7 had taken mathematics and chemistry, 12 had taken mathematics and physics, 5 had taken physics and chemistry and 4 had taken all the three subjects. Based on the above information answer the following questions.

    a. Find the number of students who had taken mathematics only.
    b. Find the number of students who had taken physics and chemistry but not mathematics.
    c. Find the number of students who had taken exactly all of the three subjects.

OR

Find the number of students who had taken at least one of the three subjects.

Q20. Prove that: $\cos^2 x + \cos^2 (x + \frac{\pi}{3}) + \cos^2 (x - \frac{\pi}{3}) = \frac{3}{2}$.

I. **Project Work:**

- Make a **collage** of various Natural Disasters.
- Collect related information of natural disasters.

NCC-XI-WORKSHEET

II. **Subjective Questions:**

Collect information about the three **most iconic names** in the history of Armed Forces:

• Field Marshal K M Cariappa

• Field Marshal Sam Manekshaw

• Paste their pictures and pen down some important characteristics of these two leaders. Include a detailed biography of them highlighting their early life, education, career in military history and awards and accolades received

III. Objective Questions:

1. **A walkie-talkie operates in_____mode:**
   a) Duplex
   b) Half-duplex
   c) Half-simplex
   d) Simplex

2. **The radio-set Motorola 338 GP has_____panels.**

3. **Expand the following:**
   a) PTT-
   b) UHF-
   c) VHF-
   d) Ni MH-
   e) Ni Cd-
   f) RSSI-

4. **_____types of indicators can be displayed on the LCD display of a walkie-talkie.**
   a) 0-9
   b) 14
   c) 4

d) 7

5. **The battery is fixed on the _____ panel of the radio-set.**

6. **The radio set was developed during the First World War. (True/False)**

7. **A single zone consists of ____ channels.**
a) 8
b) 16
c) 20
d) 128

8. **A walkie-talkie is formally known as a _____.**

9. **The frequency range of a walkie-talkie in VHF mode is:**
a) 130 MHz to 170 MHz
b) 400 MHz to 550 MHz
c) 136 MHz to 174 MHz
d) 220 MHz to 274 MHz

10. **Which of the statement is NOT TRUE in context of a walkie-talkie?**
a) It has a provision of battery saver mode.
b) Clock and alarm are not provided.
c) It can be operated in UHF/VHF mode.
d) Call Alert can be given to the receiving station.

11. **The communication range of a walkie-talkie without a repeater is:**
a) 2-10 km
b) 4-5 km
c) 1-5 km
d) 20-40 km

12. **On releasing the PTT Switch, the walkie-talkie works in _____ mode.**

13. **Given below are the functions of some buttons. Find the correct functions out of them:**

BUTTON   FUNCTION
i) Top Button: Channels can be selected by pressing this button.
ii) Side Button 1: Used for Monitoring mode.
iii) Left Key: Used for inserting space while editing.
iv) Side Button 2: Helps in Scanning the channels.

a) Both i) and ii)
b) Both iii) and iv)
c) Only ii)
d) Both ii) and iv)

14. **_____ initiates and sends an emergency siren when short pressed.**

15. The ON/OFF Volume Knob has a dual function. (True/False)

16. The Right-Side Accessory mount in a walkie-talkie is used for:
a) Mounting antenna
b) Mounting the device on a vehicle
c) Connecting IC cables, headsets
d) Mounting the device on a platform

17. The two developers of walkie-talkie along with the engineering teams at Motorola were_____and_____.

18. The weight of the radio-set with Ni MH battery is:
a) 400g
b) 300g
c) 320g
d) 420g

19. A frequency range of (403 MHz to 470 MHz) indicates that the walkie-talkie is being operated on a_____mode.

20. The option of selective call facility is provided in a walkie-talkie. (True/False)

21. Apart from Ni MH and Ni Cd batteries, the other type of battery used in a walkie-talkie is a_____battery.

22. The battery charging time for this device is:
a) 1.5 hr
b) 1 hr
c) 2 hrs
d) 30 minutes

23. The LCD display is a part of_____panel of a walkie-talkie.

24. The keypad of a walkie-talkie:
a) Has alphabets
b) Has numbers
c) Has distinct codes
d) Is alpha-numeric

25. A walkie-talkie can be easily carried from one place to another. This makes it a _____device.

26. Draw the model of Walkie- Talkie.

NOTE: QUESTION NO I IS TO BE DONE IN PRACTICAL/A4 SIZED SHEETS AND KEPT PROPERLY IN A FILE FOR SUBMISSION. WORKSHEET TO BE DONE IN NCC NOTEBOOK ONLY