

**St. Mary's School, Dwarka**  
**Holiday Homework**  
**Class XII**  
**Week 4**  
**Worksheet 4**

**Subject: English**

**M.M-25**

**Q1. Read the following passage carefully.**

1. Faith in progress is deep within our culture. We have been taught to believe that our lives are better than the lives of those who came before us. The ideology of modern economics suggests that material progress has yielded enhanced satisfaction and well-being. But much of our confidence about our own well-being comes from the assumption that our lives are easier than those of earlier generations.
2. The lives of the so-called primitive peoples are thought to have been harsh-their existence dominated by the incessant quest for food. In fact, primitives did very little work. By contemporary standards, we'd have to judge them as very lazy.
3. The key to understanding why these 'stone-age people' failed to act like us-increasing their work effort to get more things-is that they had limited desires. In the race between wanting and having, they had kept their wanting low and, in this way, ensured their own kind of satisfaction. They were materially poor by contemporary standards, but in at least one dimension-time- we have to count them richer.

**Based on the understanding of the passage, answer the questions given below:** (1x5=5)

- a) What is the basis for progress and growth according to the writer?
- b) What does the writer attribute to modern economics?
- c) What is the writer's image of the primitive people?
- d) What is the key to understanding the primitive peoples' behaviour according to the passage?
- e) How does the writer appreciate the primitives?

**Q2.** Moon Light Public School, Delhi is organizing a one-act play competition, in the month of June, in the school auditorium. You have decided to invite noted stage artiste, Saranya Marar to grace the occasion and be the chief Guest. Write a formal invitation(letter) to her in 50 words. You are Kavita/Kanav, the Cultural Secretary of your School. (3)

**Q3.** Watch the movie ‘The Invisible Man’ and write a review in 200 words. Include a description of the main characters, plot, theme, and your learning experience.

(5)

**Q4.** Read the extracts given below and answer the questions that follow.

(1x6=6)

I. “I know nothing except bangles. All I have done is to make a house for the family to live in”.

- a) Who is the speaker here?
- b) What does he mean by ‘I know nothing except bangle’?
- c) What does he consider it as his greatest accomplishment?

II. ....but all I said was, see you soon,

Amma,

all I did was smile and smile and

Smile.....

- a) What does the repeated use of the word ‘smile’ mean?
- b) The poet’s repeated smile seems to be out of place in a way. In which way is it appropriate?
- c) Why did the poet not share her concerns and worries with her mother, at parting time?

**Q5.** Answer the following questions in 30-40 words each.

(2x3=6)

- a) What does the phrase ‘familiar ache’ mean?
- b) How does M. Hamel pay tribute to the French language?
- c) Franz thinks, “will they make them sing in German, even the pigeons?” What could this mean?

## Subject – Mathematics

Q1. If  $A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$ , show that  $A^2 - 5A + 7I_2 = O$

Q2. If  $A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$ ,  $f(x) = x^2 - 2x - 3$ , show that  $f(A) = O$

Q3. If  $A = \begin{bmatrix} -1 \\ 2 \\ 3 \end{bmatrix}$  and  $B = \begin{bmatrix} -2 & -1 & -4 \end{bmatrix}$ , verify that  $(AB)^T = B^T A^T$ .

Q4. If  $A = \begin{bmatrix} \cos \alpha & \sin \alpha \\ -\sin \alpha & \cos \alpha \end{bmatrix}$ , then verify that  $A^T A = I_2$ .

Q5. Express the matrix  $A = \begin{bmatrix} 3 & 2 & 3 \\ 4 & 5 & 3 \\ 2 & 4 & 5 \end{bmatrix}$  as the sum of a symmetric and a skew-symmetric matrix.

### **CASE STUDY:**

A manufacturer produces three stationery products Pencil, Eraser and Sharpener which he sells in two markets. Annual sales are indicated below:



Market	Products (in numbers)		
	<u>Pencil</u>	<u>Eraser</u>	<u>Sharpener</u>
A	10,000	2000	18,000
B	6000	20,000	8000

If the unit Sale price of Pencil, Eraser and Sharpener are Rs. 2.50, Rs. 1.50 and Rs. 1.00 respectively, and unit cost of the above three commodities are Rs. 2.00, Rs. 1.00 and Rs. 0.50 respectively, then –

Based on the above information answer the following:

1. Total revenue of market A
  - a. Rs. 64,000
  - b. Rs. 60,400
  - c. Rs. 46,000
  - d. Rs. 40600
2. Total revenue of market B
  - a. Rs. 35,000
  - b. Rs. 53,000
  - c. Rs. 50,300
  - d. Rs. 30,500
3. Cost incurred in market A
  - a. Rs. 13,000
  - b. Rs.30,100
  - c. Rs. 10,300
  - d. Rs. 31,000
4. Profit in market A and B respectively are
  - a. (Rs. 15,000, Rs. 17,000)
  - b. (Rs. 17,000, Rs. 15,000)
  - c. (Rs. 51,000, Rs. 71,000)
  - d. ( Rs. 10,000, Rs. 20,000)
5. Gross profit in both market
  - a. Rs.23,000
  - b. Rs. 20,300
  - c. Rs. 32,000
  - d. Rs. 30,200

## **Subject – Economics**

- Q1. Explain the role of the Suez Canal in intensifying British control over India's foreign trade. (2)
- Q2. What happens in the first stage of demographic transition? (2)
- Q3. Why are death rates so high in the first stage of demographic transition? (2)
- Q4. State in brief, the demographic profile of India under British rule. (2)
- Q5. "The real motive behind infrastructural development in India was not to provide basic amenities to the people but to subserve various colonial interests. Do you agree? (3)  
Give reasons.
- Q6. How can you say that there were growing regional variations in the occupational structure of India during British rule? (3)
- Q7. Describe the positive impact of the British rule on Indian economy. (3)
- Q8. Briefly state the position of agriculture, industry and foreign trade on the eve of independence. (3)
- Q9. State the features of Indian economy at the time of independence. (5)
- Q10. How did the British exploit Indian agriculture sector? (5)

### **Guidelines for Project Work in Economics (Class XII)**

The objectives of the project work are to enable learners to: • probe deeper into theoretical concepts learnt in classes XI and XII • analyse and evaluate real world economic scenarios using theoretical constructs and arguments • demonstrate the learning of economic theory • follow up aspects of economics in which learners have interest • develop the communication skills to argue logically The expectations of the project work are that: • learners will complete only ONE project in each academic session • project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably hand-written • it will be an independent, self-directed piece of study

Scope of the project: Learners may work upon the following lines as a suggested flow chart: Choose a title/topic

Collection of the research material/data

Organization of material/data

Present material/data

Analysing the material/data for conclusion

Draw the relevant conclusion

### **Presentation of the Project Work 11 Expected Checklist:**

• Introduction of topic/title • Identifying the causes, consequences and/or remedies • Various stakeholders and effect on each of them • Advantages and disadvantages of situations or issues identified • Short-term and long-term implications of economic strategies suggested in the course of research • Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file • Presentation and writing that is succinct and coherent in project file • Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

Suggestive List of Projects: • Micro and Small Scale Industries • Food Supply Channel in India • Contemporary Employment situation in India • Disinvestment policy of the government • Goods and Services Tax Act and its Impact on GDP • Health Expenditure (of any state) • Human Development Index • Inclusive Growth Strategy • Self-help group • Trends in Credit availability in India • Monetary policy committee and its functions • Role of RBI in Control of Credit • Government Budget & its Components • Trends in budgetary condition of India • Exchange Rate determination – Methods and Techniques • Currency War – reasons and repercussions • Livestock – Backbone of Rural India • Alternate fuel – types and importance • Sarwa Shiksha Abhiyan – Cost Ratio Benefits • Golden Quadrilateral- Cost ratio benefit • Minimum Support Prices • Relation between Stock Price Index and Economic Health of Nation • Waste Management in India – Need of the hour • Minimum Wage Rate – approach and Application • Digital India- Step towards the future • Rain Water Harvesting – a solution to water crises • Vertical Farming – an alternate way • Silk Route- Revival of the past • Make in India – The way ahead • Bumper Production- Boon or Bane for the farmer • Rise of Concrete Jungle- Trend Analysis • Organic Farming – Back to the Nature • Any other newspaper article and its evaluation on basis of economic principles • Any other topic

## Subject – Informatics Practices

Q1 Write SQL command to create the following table STUDENT with constraints (2)

Field Name	Type	Width	Constraints
Rollno	int		Primary key
Stud_Name	varchar	25	
DOB	date		
Subject	varchar	24	
Marks	int		

Q2 Consider the following table: Movierental and write SQL statement for (a) and (b): (2)

reference_number	transaction_date	return_date	membership_number	movie_id	movie_returned
11	20-06-2012	NULL	1	1	0
12	22-06-2012	25-06-2012	1	2	0
13	22-06-2012	25-06-2012	3	2	0
14	21-06-2012	24-06-2012	2	2	0
15	23-06-2012	NULL	3	3	0

a) to get the number of times that the movie with id 2 has been rented out(omit duplicates)

b) to display the latest movie rented.

Q3 Describe the following clauses in SQL: GROUP BY and HAVING. (2+2)

Q4 Write a short note on INSERT Statement. (4)

Q5 Explain the SQL commands based on the following: (2x3=6)

Q6 Based on the following tables PRODUCT and CLIENT, answer the following queries: (1x6=6)

**PRODUCT:**

P_ID	ProductName	Manufacturer	Price	Discount
TP01	Talcom Powder	LAK	40	
FW05	Face Wash	ABC	45	5
BS01	Bath Soap	ABC	55	
SH06	Shampoo	XYZ	120	10
FW12	Face Wash	XYZ	95	

**CLIENT:**

C_ID	ClientName	City	P_ID
01	Cosmetic Shop	Delhi	TP01
02	Total Health	Mumbai	FW05
03	Live Life	Delhi	BS01
04	Pretty Woman	Delhi	SH06
05	Dreams	Delhi	FW12

- to display ProductName and Price for all products whose Price is in the range 50 to 150.
- to display details of product whose manufacturer is either XYZ or ABC
- to display ProductName, Manufacturer and Price for all products that are not given any discount.
- to display ClientName, City, P\_ID and ProductName for all clients whose city is Delhi.
- Which column is used as Foreign Key and name the table where it has been used as foreign key?

Q7 a) Consider the following Table: CUSTOMER

(1x6=6)

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozv Altidor	Moscow	200	5007

Write the SQL statements for the following conditions (a) to (f):

- to display all customers in New York who have a grade value above 100.
- to display those customers who are neither belongs to the city London nor grade value is more than 200
- to sort out those customers with all information whose ID value is within any of 3007, 3008 and 3009.
- to find those customers with all other information and name started with any letter within 'A' and 'K'
- to display the grade with the percent sign (%) with salesman ID and city columns for all the customers
- fetching the "cust\_name" from customer table in upper case.



## **Subject – Business Studies**

Q.1 “Profit maximization as the objective of management does not hold true and is fast changing. Therefore, if an Organisation has a good management team that is efficient and effective it automatically serves society by providing good quality products at reasonable prices. Identify the characteristic of the profession that is not fully present in management. (1)

- |                             |                     |
|-----------------------------|---------------------|
| a) Ethical code of conduct  | b) Restricted entry |
| c) Professional association | d) Service motive   |

Q.2 The objective of the Marketing Department of ‘Sunderam Kids Wear Ltd.’ is to increase sales by 10 per cent by offering discounts. But, the finance department may not approve of such discounts as it means loss of revenue. These kinds of conflict arise in organisations because each department is performing activities in isolation from others and barriers between departments are becoming more rigid. Identify the point of importance of coordination to which this case is related. (1)

- |                   |                               |
|-------------------|-------------------------------|
| a) Growth in size | b) Functional differentiation |
| c) Specialisation | d) None of these              |

Q.3 Name the principle of management given by Fayol which when applied would mean that the workers and management both honour their commitments without any prejudice towards one another.

- |                              |                      |
|------------------------------|----------------------|
| a) Discipline                | b) Mental Revolution |
| c) Remuneration of employees | d) Scalar chain      |
- (1)

Q.4 On the Introduction of GST act, experts in the field of business started analysing and forecasting its impact on various sectors and industries. Vivek, an established businessman attended a few seminar and conferences organised by such experts to familiarise himself with this information. He wanted to use these forecasts to reduce the uncertainty in making decisions for future in his business. Name the step of planning that will be followed after the step mentioned in the paragraph. (1)

- |                           |                                              |
|---------------------------|----------------------------------------------|
| a) Developing Premises    | b) Evaluating alternative courses of action  |
| c) Implementation of plan | d) Identifying alternative courses of action |

Q.5 As per the directions issued by the Supreme Court, the government passed an order to ban the sale of tobacco products within the area of 200 meters of all educational institutions as:

- a. Its consumption is injurious to health.
- b. People are becoming more conscious about health and fitness.
- c. This indicates the government's attitude towards this business.

d. Identify the business environment under different dimensions by quoting the lines from the above paragraph. (3)

Q.6 ABC Ltd. is engaged in producing electricity from domestic garbage. There is almost equal division of work and responsibilities between workers and the management. The management even takes workers into confidence before taking important decisions. All the workers are satisfied as the behaviour of the management is very good.

State the principle of management described in the above paragraph. (3)

Q.7 Explain with the help of an example 'differential piece wage system' given by Taylor. (4)

Q.8 Two years ago, Madhu completed her degree in food technology. She worked for some time in a company that manufactured chutneys, pickles, and murabba. She was not happy in the company and decided to have her own organic food processing unit for the same. She set the objectives and the targets and formulated an action plan to achieve the same. One of her objectives was to earn a 10% profit on the amount invested in the first year. It was decided that raw materials like fruits, vegetables, spices, etc. will be purchased on three month's credit from farmers cultivating only organic crops. She also decided to follow the steps required for the marketing of the products through her own outlets. She appointed Mohan

as the Production Manager who decided the exact manner in which the production activities were to be carried out. Mohan also prepared a statement showing the number of workers that will be required in the factory throughout the year. Madhu informed Mohan about her area wise sales target for different products for the forthcoming quarter. While working on the production table, a penalty of X 100 per day for not wearing caps, gloves, and apron were announced. Quoting lines from the above paragraph, identify and explain the different types of plans discussed. (4)

Q.9 'Science is a systematised body of knowledge that explains certain general truths or the operation general laws'. Based on the statement identify and state the characteristics of management that it as a science. (6)

Q.10 After completing a diploma in Bakery and Patisserie, Payal sets up a small outlet at Goa Airport to provide a healthy food option to the travellers. To begin with, she has decided to sell five types of patties, three types of pizzas and low sugar muffins in four flavours. Thus, by deciding in advance what to do and how to do, she is able to reduce the risk of uncertainty and avoid overlapping and wasteful activities. But sometimes her planning does not work due to some unavoidable circumstances like cancellation of flights due to bad weather conditions, government alert, etc. which adversely affects her clientele. In the context of the above case:

- a. Identify and explain the points highlighting the importance of planning mentioned in the above paragraph.
- b. Briefly describe the limitation of planning which adversely affects Payal's business.

(6)

## **Subject – Accountancy**

Q.1 Earning capacity of a company is ascertained by: (1)

- |                    |                          |
|--------------------|--------------------------|
| a) Solvency ratios | b) Profitability ratios  |
| c) Liquidity ratio | d) Working Capital Ratio |

Q.2 Which of the following is a not limitation of analysis of financial statement? (1)

- |                          |                               |
|--------------------------|-------------------------------|
| a) Window dressing       | b) Subjectivity               |
| c) Intra-firm comparison | d) Only quantitative analysis |

Q.3 Trade receivable turnover ratio 5 times, average trade receivables Rs. 60,000. Calculate net credit revenue from operations. (1)

- |                 |                 |
|-----------------|-----------------|
| a) Rs. 3,00,000 | b) Rs. 2,00,000 |
| c) Rs. 12,000   | d) Rs.2,40,000  |

Q.4 Cash and Cash Equivalents does not include..... (1)

- |                  |                                                     |
|------------------|-----------------------------------------------------|
| (a) Cheques.     | (b) Balances with banks.                            |
| (c) Inventories. | (d) Bank deposits with more than 12 months maturity |

Q.5 Casio Machines Ltd. has an opening credit balance of 5,00,000 in Securities Premium Reserves and also debit balance of 10,00,000 in Surplus, i.e., Balance in Statement of Profit and Loss in Reserves and Surplus. During the year ended 31st March, 2020, it incurred a loss of 15,00,000. How will it be shown in Note to Accounts on Reserves and Surplus? (3)

Q.6 What is meant by analysis of financial statement? Explain the disadvantages. (3)

Q.7 Calculate return on Investment from the following information : (4)

Net profit after Tax Rs.6,50,000, 12.5% convertible debentures Rs 8,00,000, Income Tax 50%,  
Fixed Assets at cost Rs.24,60,000, Depreciation reserve Rs.4,60,000, Current Assets Rs. 15,00,000,  
Current Liabilities Rs. 7,00,000

Q.8 Calculate cost of Revenue from operations from the following information: Revenue from operations Rs.12,00,000, Sale Return Rs.80,000, operating expenses Rs.1,82,000, operating ratio 92%. (4)

Q.9 Classify the following into non-current assets and current assets and give reasons for such classification: (6)

- (i) A company has an operating cycle of 11 months and the expected period of realisation of trade receivables is 10 months.
- (ii) A company has an operating cycle of 11 months and the expected period of realisation of trade receivables is 12 months.
- (iii) A company has an operating cycle of 11 months and the expected period of realisation of trade receivables is 15 months.
- (iv) A company has an operating cycle of 20 months and the expected period of realisation of trade receivables is 24 months.

Q.10 Prepare Cash Flow Statement from the following information:

(6)

Particulars	Note no.	31.3.2017	31.3.2016
<b>I. Equity and liabilities</b>			
<b>Shareholder's Fund:</b>			
Share capital		4,50,000	4,50,000
Reserves and Surplus	1	3,78,000	3,56,000
<b>Non-Current Liabilities</b>			
Long Term Borrowings: Mortgage Loan		2,70,000	---
<b>Current liabilities</b>			
Trade Payables		1,34,000	1,68,000
Short term Provisions (provision for tax)		10,000	75,000
<b>Total</b>		12,42,000	10,49,000
<b>II. Assets</b>			
<b>Non- current Assets</b>			
Tangible Assets		3,20,000	4,00,000
Non-Current Investment		60,000	50,000
<b>Current Assets</b>			
Current investments		17,000	19,000
Inventory		2,10,000	2,40,000
Trade Receivable		4,55,000	2,10,000
Cash and cash equivalents		1,80,000	1,30,000
<b>Total</b>		12,42,000	10,49,000

#### Notes to Accounts

##### 1. Reserves and Surplus

General Reserve	3,10,000	3,00,000
Surplus i.e. Balance in Statement of P/L	68,000	56,000
	<b>3,78,000</b>	<b>3,56,000</b>

##### Additional Information:

- i) Investments costing Rs.8,000 were sold during the year for Rs.8,500
- ii) Provision for Tax made during the year was Rs.9,000
- iii) A part of the fixed assets costing Rs.10,000 was sold for Rs.12,000 during the year and profit was included in the Statement of Profit and Loss
- iv) Dividend paid during the year amounted to Rs.40,000