St. Mary's School, Dwarka
Holiday Homework
Std. XI
Week 1
Worksheet 1

Subject: English

General Instructions:

1) **The work should be done neatly and in a systematic way.**
2) **The given questions are to be done in the English notebook.**
3) **Attempt questions based on specific instructions for each section.**

SECTION A- READING

Q1.Read the following passage carefully.

1. "The slogan we promoted was 'Avoid Plastic-Avoid Hunger'. We wanted to get rid of plastic and also feed the hungry," says Pedireddi, a Peddapuram-based entrepreneur. The programme was launched on Mahatma Gandhi's 150th birth anniversary on 2 October. Within days, the group collected around 400 kgs of plastic and distributed an equal amount of rice and other materials during the drive. Now they plan to do it every Sunday.

2. "The plastic that was collected was deposited at the local municipality office. They promised that it will be recycled," says Pedireddi. For a town of around 70,000 people, the amount of plastic they collected through these drives is just a drop in the ocean. But the group says that they will continue to raise awareness among the residents of the town.

3. "The most satisfying thing about this drive has been that it has inspired people in other towns of the district to launch such initiatives," says Pedireddi. The Mana Peddapuram, besides raising civic issues like cleanliness, deforestation, and cultural events, has also run campaigns spreading awareness on blood donation and the pledging of organs.

4. The group claims that funds are not a problem as the people in Peddapuram are generous when it comes to donating money for worthy causes. "We have hundreds of young people in this group and we hope to take up many more issues in the coming months and years," says Pedireddi. We can only hope for many more such enthusiastic youth organizations that work for nation-building.

Based on your understanding of the passage, answer the questions given below.   (1x5-5)

(i). Social media group called 'Mane Peddapuram' was launched for…………
(a) commercial purposes to earn profit
(b) keep contact with friends and relatives
(c) creating a platform to discuss social issues

(d) gaining popularity among the villagers

(ii) What was the idea behind the concept of the 'rice-for-plastic' campaign?

(iii) Which of the following sentences uses the word 'drive' similar in meaning to the one given in the above sentence?

(a) Mr. Gupta's son drives his car very cautiously and sensibly.

(b) Cruelty at the workplace can drive workers to go on strike.

(c) The supermarket is only a five-minute drive away from here.

(d) Our school launched a drive to collect funds for orphan children.

(iv) Arrange the following events in chronological order:

I. The plastic is deposited at the municipality for recycling.

II. 400 kg of plastic is collected from surrounding places.

III. Social media group called 'Mana Peddapuram' is launched.

IV. An equal amount of rice and other material is distributed.

V. People from other areas also got inspired to join the campaign.

(a) III, II, I, V, IV

(b) III, II, IV, I, V

(c) IV, II, I, III, V

(d) V, II, I, IV, III

(v) How could hunger be avoided in the slogan 'Avoid Plastic, Avoid Hunger'?

    (a) engaging in social service

    (b) sale of the non-biodegradable waste

    (c) distribution of rice to poor and hungry

    (d) all of the above

SECTION B -Literature

Answer the following questions in 20 to 30 words. (2x2-4)

Q2. "The thought was almost revolting," the narrator said.

    What was that thought and why was it disgusting?

Q3. 'And the sea, which appears to have changed less, washed their terribly transient feet'.

    What is the idea conveyed in this line?

Answer the following questions in 100 words. (1x3=3)

Q4. The lesson **'We're Not Afraid to Die'** is a story of adventure, bravery and courage. Comment.

SECTION C- Grammar

Q5. Identify the error in each of these sentences and write along with the correction in the box given below:- (½x4=2)

1. Many peoples attended the funeral of the great man.
2. The shepherd took the cattles to the field.
3. Sita could not understands what the teacher was saying.
4. Do you know the importance for clean water?

Error	Correction
1.	1.
2.	2.
3.	3.
4.	4.

Q6.**i) Complete the dialogue by choosing the correct option.** **(1)**

　　　　A: _____

　　　　B: We have eight a day. They are 40 minutes long.

   A. Are there any foreign students in your school?

   B. How many days are there in a week?

   C. How far is your school to your house?

   D. How many lessons do you have every day?

Q7. Select the appropriate option and fill in the blank. **(1)**

When Hemant was at Chirag's flat yesterday, Hemant asked if he _____use the phone.

(A) can

(B) may

(C) must

(D) could

SECTION D- Writing

Q8. Design a poster to create awareness about 'Yoga' as a means to improve mental health**. (2)**

Q9. Taking care of the elderly is a responsibility that everyone should take.

Write an article in the newspaper about the need to respect and take care of the elderly. **(4)**

Q10. The Garoghlanian tribe in the lesson 'The Summer of the White Beautiful Horse' was known for its hallmarks of trust and honesty despite its poverty. Research about any tribe from India or the world and present it in the form of a magazine. The magazine should throw light on different aspects of their lives with colourful pictures. (3)

Subject: Mathematics

General Instructions:

- Neatly write all the answers in your notebook.
- Attempt the questions keeping in mind the weightage of each question

Q.1) If z is a complex number such that $|z| = 1$ then prove that $\frac{z-1}{z+1}$ is purely imaginary. (2)

Q.2) Find the modulus and the argument of $\frac{(1+i)^2}{1-i}$. (2)

Q.3) Show that $\cos^2\frac{\pi}{8} + \cos^2\frac{3\pi}{8} + \cos^2\frac{5\pi}{8} + \cos^2\frac{7\pi}{8} = 2$ (2)

Q.4) If $\cot\theta + \tan\theta = 2\csc\theta$, then find the general solution of θ. (2)

Q.5) Let A = {3, 6, 9, 12, 15, 18, 21}, B = {4, 8, 12, 16, 20}, C = {2,4,6,8,10,12,14,16} and D = {5, 10, 15, 20}. Find:

(i) D – B   (ii) A ∩ (B∪ C)   (iii) C – A   (iv) D ∪ (B – C) (2)

Q.6) Show that for any sets A and B: A = (A ∩ B) ∪ (A – B) and A ∪ (B – A) = A ∪ B. (3)

Q.7) In a survey of 200 students of a school, it was found that 120 study Mathematics, 90 study Physics, 70 study Chemistry, 40 study Mathematics and Physics, 30 study Physics and Chemistry, 50 study Chemistry and Mathematics and 20 none of the subjects. Find the number of students who study all three subjects. (3)

Q.8) Find the value of tan 22.5° . (3)

Q.9) If a $\cos 2\theta$ + b $\sin 2\theta$ = c has α and β as its roots, then prove that $\tan\alpha + \tan\beta = \frac{2b}{1+c}$.

(Hint: Use identities for $\cos 2\theta$ and $\sin 2\theta$ in terms of $\tan\theta$. (3)

Q.10) Find the square root of -15 – 8i. (3)

Subject: Informatics Practices

General Instructions:

- Neatly write all the answers in your notebook.
- Attempt the questions keeping in mind the weightage of each question.

Q1 Explain the types of operating systems with examples.   2

Q2 Specify the measuring units of memory.   2

Q3 Explain in brief the working of a touch screen.   2

Q4 How does an ALU work?   2

Q5 What is the significance of address and data buses?   2

Q6 Why is the execution time of the machine code less than that of source code?   2

Q7 Write the main difference between microcontroller and microprocessor. Why do smart home appliances have a micro-controller instead of a microprocessor embedded in them?   2

Q8. Identify the category (system, application, programming tool) of the following software: 2

(a) Compiler

(b) Assembler

(c) Ubuntu

(d) Text editor

Q9. Name the input/output device used to do the following: 3

(a) To output audio

(b) To enter textual data

(c) To make hard copy of a text file

(d) To display the data/information

(e) To enter audio-based command

(f) To build 3D models

Q10 Explain various components of a computer system and show the relationship between them with the help of a diagram.   4+2=6

Subject: Economics

General Instructions:

- Neatly write all the answers in your notebook.
- Attempt the questions keeping in mind the weightage of each question.

Q1. Is the demand for the following elastic, moderate elastic, inelastic? Give reason.

   a) Demand for petrol
   b) Demand for textbooks
   c) Demand for cars
   d) Demand for milk   (2)

Q2. Describe the assumption which is made to determine the consumer's equilibrium

   position.   (2)

Q3. Write two features of PPC.   (2)

Q4. Price elasticity of demand for flour is equal to unity and a household demands 40 kg

   of flour when the price is Rs. 1 per kg. At what price will the household demand 36 kg

   of flour?   (2)

Q5. The quantity demanded of a good at a price of Rs. 10 per unit is 40 units. Its price

   elasticity of demand is -2. Its price falls by Rs, 2/- per unit. Calculate its quantity

   demanded at the new price.   (2)

Q6. What happens to the budget set if both the prices as well as the income double?   (3)

Q7. Suppose a consumer can afford to buy 6 units of good 1 and 8 units of good 2 if

   she spends her entire income. The prices of the two goods are Rs 6 and Rs 8

   respectively. How much is the consumer's income?   (3)

Q8. How many chocolates will a consumer have, if they are available free of cost?   (3)

Q9. State with reasons if the following statements are true or false: (3)

   1) At a grand family get-together party you go on eating and eating since you have not to

      pay.

   2) As we consume more units of a commodity, our total utility from its consumption

      Keeps falling.

Q10. Explain three determinants of demand for a commodity.   (3)

Subject: Accountancy

Project work:
Objectives:
i)   To develop an understanding of real life situations
ii)   To develop competence of reading, analyze and interpret the accounting data of the enterprise
iii)   To develop critical thinking and management skills

Activity:
1.   Find out the different types of bills used by business enterprise.
2.   When Government was aware that they will be discontinuing the use of Rs.2,000 currency note in future, why did they introduce it during demonetisation?

Assignment:
1. Collect the different bills, analyze it and make vouchers out of it.
2. Collect the information related to the activities mentioned above and present it in a file.

General Instructions:

- Neatly write all the answers in your notebook.
- Attempt the questions keeping in mind the weightage of each question.

Q.1   Management creates provision for doubtful debts @5% on debtors every year based on the past experience. Name two accounting principles followed in this process.   1

Q2.   What is the limitation of the Money Measurement Principle?   1

Q.3   Goods costing Rs.10,000 is sold for Rs.14,000. In this transaction what amount is treated as Revenue and what amount is treated as Income?   1

Q.4   ABC Company purchased office supplies worth Rs.500 on credit from XYZ Supplier. How would this transaction be recorded in the accounting books using the double-entry system.1

Q.5   XYZ Corporation paid Rs.10,000 in cash to settle a long-term loan. How would this transaction affect the accounting equation?   1

Q.6   a) From the following information calculate total assets of the business: 3
        Capital Rs.40,000,Creditors Rs.30,000, Revenue earned during the period Rs.75,000,
        Expenses incurred during the period Rs.20,000 and Value of stock unsold Rs.20,000.
        b) Give an example of decrease in owner's capital and decrease in asset.

Q.7   a) Briefly explain accounting period principle.
        b) State which accounting concept you would follow in dealing with the problems given
            below: -
          The owner of the firm records his medical expenses in the firm's income statement.   3

Q.8   Explain the different users of Accounting information.   4

Q.9   State which of the following transactions are Capital Expenditure or Revenue Expenditure for a furniture business.   4
        a) Purchasing an item of furniture for use in the business
        b) Bought some furniture for reselling.

c) Paid salaries to staff

d) Paid for insurance premium of business building

e) Electricity Bill paid

f) Computer purchased for office use

g) Installed an AC in the office

h) Loading Van purchased for delivery of furniture to customers

Q.10   Show the accounting equation on the basis of the following transactions: 6

i) Started business with cash Rs.60,000 and goods Rs.30,000.

ii) Purchased goods from Sohan Rs.40,000. Paid by raising loan from SBI .

iii) Bought refrigerator for personal use Rs.8,000 .

iv) Goods costing Rs.20,000 sold at a loss of 5%, out of which Rs.12,000 received in cash.

v) Rent received in advance Rs.4,000 .

vi) Received cash from debtors Rs.5,000.

vii) Telephone bill outstanding Rs.800.

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Subject: Business Studies

Project Work:

Objectives:

i)   To inculcate a spirit of inquiry and research.

ii)   To develop skills of analysis and critical thinking

iii)   To develop an understanding of the changes taking place in business environment.

Activity:

1.   Rupay credit card as an emerging alternative to BHIM UPI. Analyze its impact on increase in number of UPI transactions, increase in number of new users of UPI and negative impact on business of VISA and Master card.

2.   India is hosting G20 for the first time. What will be its impact on socio economic situation (tourism, FDI inflow, infrastructure development etc.) across the world?

Assignment:

Collect the information related to activities mentioned above and present it in a file.

General Instructions:

- Neatly write all the answers in your notebook.
- Attempt the questions keeping in mind the weightage of each question.

Q.1   Shyam Suresh and Shiva are three brothers. Shyam is an employee in a bank, Suresh is a professional teacher, and Shiva works in his own farm. In which type of occupation Shyam is involved?   1

Q.2   Mr. Sumit Grover owns an ancestral house in Goa. On the advice of his friend, he converted it into a hotel after renovation. The hotel was running smoothly and revenue from the hotel helped to increase his income. On his death the property (hotel) was inherited by his three sons. Eldest son-Raj, Second- Ashish and youngest son – Rahul who contributes the business as Joint Hindu Family Business.

(i). Name the law which governs the Joint Hindu Family Business.

(ii). Who among the three brothers has right to control the business?   1

Q.3   In which economic activity rendering of personalized expert service is required?   1

Q.4   As the owner of a business unit, what risks are faced by you in running it?   1

Q.5   ABC Ltd. is planting trees on the road side. Which objective it is trying to achieve?   1

Q.6   Name and explain two characteristics of business which involves possibility of loss.   3

Q.7   From the following, identify the type of trade:

a. Star Electricals, Tvm. Sold some electric items to Srilanka

b. 3-in -0ne Automobiles, Ernakulum purchased some spare parts from China in order to sell at Nepal.

c. Kiran furniture's sold some furniture item locally. 3

Q.8 Mr. Venu, a Chartered Accountant, is now working as finance manager in a company, Mention the category of economic activity Mr.Venu belongs to. State any two features of that category. 4

Q.9 Compare the status of a minor in a Hindu joint family business with that in a partnership firm.4

Q.10 In what form of Business do individuals associate freely for profit, with capital dividends into transferable shares, and ownership of which is a requirement of membership? Explain in terms of characteristics. 6