PRABHU DAYAL PUBLIC SCHOOL Holidays Homework 2025 Class XI

<u>English</u>

All the work should be done in the classwork notebook.

Select 2 passages, paste them in notebook and make notes, along with summary.
Draft posters on (any two) the ill effects of binging on junk food, Ill- effects of plastics on the environment, blood donation camp, road safety tips.
Date 4 displays a bastic passage in generate the sale.

3) Pate 4 display advertisements in your notebook.

Economics

These questions are to be done in the class registers itself. $\underline{CH-4}$

ORGANISATION OF DATA

Q 1. Convert the following series into a simple frequency distribution:

| Mid-value | 5 | 15 | 25 | 35 | 45 | 55 |
|-----------|---|----|----|----|----|----|
| Frequency | 2 | 8 | 15 | 12 | 7 | 6 |

<u>CH-5</u>

TEXTUAL AND TABULAR PRESENTATION

Q 2. There were 160 persons in a trip organized by a school. Out of which 120 were students, 28 were teachers and 12 (all males) were peons. Out of total persons, 32 were females including two lady teachers. Present the above information in a table.

Q 3. In a sample study about coffee habits in two towns, following data were observed:

Town X: 52% persons were males, 25% were coffee drinkers, and 16% were male coffee drinkers.

Town Y: 55% persons were males, 28% were coffee drinkers, and 18% were male coffee drinkers.

Represent the above data in a tabular form.

Q 4. There were 80 persons in a trip organized by a school. Out of which 60 were students, 14 were teachers and 6 (all males) were peons. Out of total persons, 16 were females including one lady teacher. Present the above information in a table.

<u>CH-6</u> DIAGRAMMATIC PRESENTATION OF DATA

Q 5. Represent the following data by a deviation bar diagram:

| Saving/Deficit (Rs. in'000s) 30 -20 10 15 -25 20 | Year | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------------------------------|------|------|------|------|------|------|
| | Saving/Deficit (Rs. in'000s) | 30 | -20 | 10 | 15 | -25 | 20 |

Q 6. Represent the following data, using a pie diagram:

| Brands of Sets | Samsung | LG | Panasonic | Sony | Total |
|-----------------------|---------|-----|-----------|------|-------|
| Units sold in Panipat | 480 | 360 | 240 | 120 | 1,200 |
| Units sold in Ambala | 600 | 500 | 400 | 300 | 1,800 |

Q 7. Represent the following data, using a percentage bar diagram:

| Items of Expenditure | Food | Clothing | House Rent | Fuel and Lighting | Total |
|----------------------|------|----------|---------------|----------------------|-------|
| Family A | 480 | 360 | 240 | 120 | 1,200 |
| Family B | 600 | 500 | 400 | 300 | 1,800 |

Q 8. Represent the following data by a simple bar diagram:

| Year | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------------|------|------|------|------|------|
| Strength of the School | 500 | 600 | 500 | 700 | 750 |

<u>CH-7</u>

FREQUENCY DIAGRAMS

Q 9. Draw the 'less than' and 'more than' ogives on the same graph:

| Weekly Wages (Rs.) | 0-20 | 20-40 | 40-60 | 60-80 | 80-100 |
|--------------------|------|-------|-------|-------|--------|
| Number of Workers | 10 | 20 | 40 | 20 | 10 |

Q 10. Draw the 'less than' and 'more than' ogives on the same graph:

| Marks | 0-20 | 20-40 | 40-60 | 60-80 | 80-100 |
|--------------------|------|-------|-------|-------|--------|
| Number of Students | 40 | 51 | 64 | 38 | 7 |

<u>CH-8</u>

TIME SERIES GRAPHS

Q 11. The table shows the exports and imports of a country in different years:

| Years | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------------------|------|------|------|------|------|------|------|
| Exports (in Rs. crores) | 300 | 350 | 400 | 380 | 450 | 280 | 250 |
| Imports (in Rs. crores) | 420 | 460 | 600 | 480 | 550 | 450 | 400 |

Represent the data graphically using Arithmetic-Line-Graphs.

Q 12. The table shows the population (in '000s) of men and women in a village in different years:

| Year | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------|------|------|------|------|------|------|------|
|------|------|------|------|------|------|------|------|

| Number of Men | 10 | 13 | 15 | 14 | 17 | 18 | 21 |
|-----------------|----|----|----|----|----|----|----|
| Number of Women | 12 | 18 | 16 | 17 | 20 | 22 | 24 |

Represent the data graphically using Time-Series-Graphs.

Accountancy

Q1) Define the term accounting. Also state the characteristics of accounting.

Q2) Who are the users of accounting information? Explain in brief.

Q3) Define the following terms in brief:-

a) Assets b) Liabilities c) Cost of goods sold d) Discount e) Depreciation Q4) Difference between cash basis and accrual basis of accounting.

Q5) What are the "Golden Rules of Accounting".

Q6) Prepare the accounting equation from the following transactions:- Aman started business with cash Rs. 500,000 and goods worth Rs. 2,00,000. Purchased machinery for Rs. 1,50,000, paying Rs. 50,000 in cash and the balance on credit Sold goods worth Rs. 1,00,000 for Rs. 1,50,000, receiving the amount through cheque. Paid rent Rs. 20,000 and salary Rs. 30,000 Depreciation on machinery @10% p.a Purchased goods worth Rs. 50,000 on credit.

Q7) During the financial year 2024-25, Mahesh had cash sales of Rs. 1,90,000 and credit sales of Rs. 60,000. His expenses for the year Rs. 80,000 out of which 20,000 is still to be paid. Find out Mahesh's income for 2024-25 following the cash basis and accrual basis of accounting.

Q8) Classify the following accounts into Asset, liabilities, capital, revenue and expenses:-

| a) machinery sold | b) discount received | c) bank charges paid |
|---------------------|---------------------------|----------------------|
| d) outstanding rent | e) Aman, (the proprietor) | |

Business studies

Do the following questions in your register.

Q1. List any 5 commercial sites of India.

Q2. Explain with examples the various types of Industries.

Q3. Why commerce is considered as the backbone of industry and other business activities?

Q4. Nancy makes some beautiful paper flowers and sells them to her neighbour for Rs. 600. Her Aunt Mrs Gupta prepares chocolates for supply to a local bakery. Who is engaged in a business activity and why?

Q5. Explain the various merits and demerits of Sole Proprietorship form of business organization.

Q6. Why do businessman earn profit?

Q7. 'An Entrepreneur dealing in fashionable items has a high degree of risk as compared to business involved in necessity goods as fashion keeps on changing and does not last long'. Identify and explain the nature of business risk is highlighted here. Q8. Differentiate between different types of partners.

Q9. In case of heavy loss, creditors can claim the recovery of their dues from the personal assets of sole proprietor. Which feature of sole proprietor is highlighted here?

Q10. According to 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?

Mathematics

Q1. Find the value of $i^{n} + i^{n+1} + i^{n+2} + i^{n+3}$.

Q2. Find the value of x so that $\left(\frac{1+i}{1-i}\right)^x$ is real.

Q3. Find the value of α for which the expression $\frac{1-isin\alpha}{1+2isin\alpha}$ is purely real.

Q4. Find the value of $a^2 + b^2$ if real value of x that satisfies the equation $\frac{3-4ix}{3+4ix} = a - ib$.

Q5. Find the Re(z) and Im(z) if the complex number z satisfies the equation $\left|\frac{i+z}{i-z}\right| = 1.$

Q6. If $f(z) = \frac{7-z}{1-z^2}$, where z = 1 + 2i, then find modulus of f(z).

Q7. Three positive numbers form an increasing G.P. If the middle term in this G.P. is doubled, The new numbers are in A.P. Find the common ratio.

Q8.Consider an infinite geometric series with first term a and common ratio r. If its sum is 4 and the second term is ³/₄, then find a and r.

Q9. If x , y , z are distinct positive integers , then find the minimum value of

(x + y)(y + z)(z + x).

Q10. If x, 2x + 2 and 3x + 3 are in G.P. then find the fourth term.

Q11. The lengths of three unequal edges of a rectangular solid block are in G.P. The volume of the block is 216 cm^3 and the total surface area is 252 cm^2 . Find the length of the longest edge.

Q12. One side of equilateral triangle is 28cm. The mid points of its sides are joined to form another triangle whose mid-points, in turn, are joined to form still another triangle. The process is continued indefinitely. Find the sum of all perimeters of all the triangles.

Q14. Find the mean deviation of the data 3,10,10,4,7,10,5 from mean.

Q15.Find the mean deviation of the data 50,69,20,33,53,39,40,65,59 from median.

Q16.Find the standard deviation of the observations 6,5,9,13,12,8,10.

Q17.Find the variance of first 10 natural numbers.

Q18. The variance of the data 2,4,5,6,8,17 is 23.33. then find the variance of 4,8,10,12,16,34.

Q19. Consider the numbers 1,2,3,4,5,6,7,8,9,10. If 1 is added to each number, then find the standard deviation of of the numbers so obtained.

Q20.In an experiment with 15 observations, $\Sigma x^2 = 2830$, $\Sigma x=170$. One observation '20' was found wrong and was replaced by the correct value 30. Find the corrected variance.

Informatics practice

Q. 1 WRITE PYTHON PROGRAMS FOR FOLLOWING:

- 1. Input name, class and date of birth of a student. Display his name with 'good morning' message and class with 'welcome' message.
- 2. Write a program in python to accept a character from the user and display whether it is a vowel or consonant.
- 3. Input principle, rate and time. Display simple interest and final amount.
- 4. Input two numbers in a and b. find a^b

- 5. Write a program in python to find the largest among three inputted numbers.
- 6. WAP using python to input cost and display selling price after increasing 25%
- 7. WAP using python to input age and display age after 15 years.

PRACTICAL FILE QUESTIONS

- 1. To input name and print it 10 times with hello message
- 2. To input weight in kg and print it in grams.
- 3. To input marks in 3 subjects.Calculate the average and display grades according to the given criteria:

Average Grade

>=90 A+ <90 but >=75 A <75 but >=50 B <50 but >=33 D <33 E

- 4. To find sale price of an item after inputting cost and profit (%). SP =CP + CP*profit/100
- 5. To calculate perimeter and area of a rectangle. Input length and breadth
- 6. To input two number. Display sum, difference, product, quotient, remainder depending on users choice.
- 7. To calculate profit-loss for given Cost and Selling Price with appropriate message

Q2. (a) What will be the output produced by the following code fragments-

w, x, y, z = 21, 2, 3, 21 print(w/4)print(w//4)print(x**y) print(z%y)(b) Predict the outputx=100 x = x + 100x=x-5print(x)x,y=x-5,190 print(x,y) Q3. Solve the following : (a) 2 ** 3 ** 2 (b) 12%3 **4 //5 +6 (c) -7 * 20 +8 /16 * 2 +54 (d) 7 ** 2 // 9 % 3 (e) (7-4 *2) * 10 /5 ** 2 +15 (f) 5 %10 +10 -25 * 8 //5 Q4. Will the following expression solve or result in an error. Justify? "hello" * 2 -5 Q5. Differentiate between the following. (a) = and == (b) / and % (c) / and // (d) * and ** Q6. If the value of b is 7, give the answer of the following expressions: (c) b/4 (d) b%4(a) b/6 (b) b//6(e) b%7 (f) b^{*2} (g) b^{**2}

Q.7 Design a beautiful A4 SIZE POSTER on any of the given topics

- 1. Python
- 2. SQL
- 3. Computer Network
- 4. Emerging Trends AI, Smart city, VR ----

REVISE THE SYLLABUS FOR PWT1 *NOTE: Q 1 TO 6 to be done in IP register

Physical education

1. Project on yoga (Meaning & Importance)

Explain in detail the ashtanga yog (elements of yoga)

2. Draw the diagram of recognised sports/game of your choice.

Also mention its rules, terminologies & skills