

**PRABHU DAYAL PUBLIC SCHOOL, SHALIMAR BAGH**

**HOLIDAY HOMEWORK 2024-25**

**CLASS-XI**

**“Success is the sum of small efforts repeated day in and day out.”**

**Dear Parents,**

Summer Vacation is a time for the children to enjoy and relax. These days are precious and valuable and can be made most from if judiciously used. We should always remind ourselves that children will not remember us for the gifts we shower upon them but will always cherish the time we spent with them. It is time to nurture young minds, inculcate moral values and narrate family anecdotes to keep them in touch with their roots.

It's summertime again! The time to strengthen family bond, tying threads of family tree, sharing joys and sorrows and having a good time together.

*Here are a few tips to make the vacation a fruitful time for your child:*

- Look for interesting books and read as much as you can about the places and people. Take good care of your health and hygiene. Avoid heavy and oily food and increase intake of fresh fruits and water to keep yourself well hydrated and energetic.
- Use Holiday Homework as an opportunity to spend quality time together. The role of the parent is to be a facilitator and guide to steer the child in the right direction.
- Encourage your child to take up yoga or any other form of healthy activity during the vacation.
- Involve children in household chores.
- Enjoy walking with them in parks and appreciate nature.

**General instructions:**

In order to keep our students well engaged and to revise and be thorough with the portions we have completed so far, we are sending the Summer Holiday Homework. We request parents to encourage the kids to finish their homework during the summer holidays. This will help them to have a revision of all the portions without over burdening them. Original work by the child shall be acknowledged and assessed.

Follow the guidelines given by teachers to complete specific activities.

**Happy holidays!**

## **HUMANITIES**

### **ENGLISH**

*All the work should be done in a separate folder*

- 1) Select two passages, paste them in the folder and make notes, alongwith summary.
- 2) Draft Posters on (any three):
  - The ill-effects of binging on junk food.
  - Ill-effects of plastics on the environment
  - Blood donation camp
  - Road safety tips.
  - Save Water
- 3) Paste 4 display advertisements in your folder.

### **POLITICAL SCIENCE**

**I. Watch the Indian Constitution documentary and reflect in your own words.**

<https://www.youtube.com/watch?v=atSSN6ZLzXQ>

(To be done in your register)

**II. Design a Political Campaign for a fictional candidate contesting in an election. Create a poster for the campaign with the help of suitable slogans.**

- Task must be completed on an A4 size sheet.
- Content should be unique and original, showcasing creativity.
- Use of recycled materials for decoration is encouraged.

**III. Read newspapers, especially editorials, to stay informed and gain different perspectives.**

**IV. Read and revise PWT – I syllabus to be well-prepared for assessments.**

## GEOGRAPHY

### Project and Presentation

Prepare a project report on the topic- **Natural Hazards and Disasters**  
(Chapter 6 of India Physical Environment Textbook)

Sub Topics- **Earthquakes/Tsunami/Tropical Cyclone/Floods/Droughts** (Select any one topic)

#### **Outline of the project**

- Introduction about hazard and disaster
- Define the disaster selected by you
- Causes
- Impact
- Risk reduction measures/ mitigation policy
- Maps

#### **Important Instructions:**

While preparing the project, the points to be kept in mind are:

- ♣ The project report should be handwritten.
- ♣ Use A4 size sheets.
- ♣ Project should have: cover sheet, index, introduction, conclusion, acknowledgement and bibliography/references.
- ♣ Use maps, pictures and relevant data for illustration.

**Note: This project report is a part of internal assessment.**

## Theory Part

### Geography Map File

- ❖ **Refer the Map list mentioned in the Geography Syllabus 2024-25 by CBSE for both Fundamentals of Physical Geography Textbook and India: Physical Environment Textbook**

#### **Important Instructions**

- Make the Map file on A 4 sheets
- Don't use red colour for headings or written work
- Map work should be accurate and neat strictly following the NCERT Textbooks

### Practical Work

#### **Important Instructions**

- Do the Practical work on A4 sheets
- Don't use red colour for headings or written work
- Written work and diagrams should be legible and accurate

#### **Practical Work in Geography Part –I NCERT Textbook**

Chapter 1 –Introduction to Maps

- ❖ **Revise the Covered Syllabus for PWT –I**

## हिंदी

### हिंदी परियोजना कार्य

प्रश्न-1. दिए गए विषयों में से किसी एक विषय पर पर्याप्त जानकारी एकत्रित करते हुए परियोजना कार्य तैयार कीजिए।

(आप अपनी पसंद का विषय परियोजना हेतु ले सकते हैं।)

(परियोजना कार्य 8 -10 पेज)

यह परियोजना 10 अंक के लिए है।

#### विषय-

- प्रेमचंद का भाषा सौंदर्य
- अलंकार और उनके उदाहरण
- नौ रस और उनके उदाहरण
- कवि सूरदास के काव्य में बाल मनोविज्ञान

### रचनात्मक एवं क्रियात्मक कौशल

प्रश्न-2. एक ही समाचार को समाचार पत्र से पढ़िए, रेडियों से सुनिए और टी.वी. से देखिए तीनों की तुलना कीजिए, जो भी अंतर आपने महसूस किया है उसे A-4 साइज़ शीट पर लिखिए।

### मौखिक अभिव्यक्ति

प्रश्न-3. अपने पसंदीदा विषय पर हिंदी में एक भाषण अथवा कविता तैयार कीजिए तथा उसका वीडियो भी बनाइए। (5 अंक की कक्षा गतिविधि हेतु)

### प्रस्तुतीकरण कौशल

प्रश्न-4. निम्नलिखित में से किसी एक विषय पर पावरपॉइंट प्रेजेंटेशन (पीपीटी) तैयार कीजिए-

- हिंदी की विकास यात्रा
- संत कबीरदास का व्यक्तित्व एवं कृतित्व

### नोट:-

- प्रथम सामयिक लिखित परीक्षा हेतु निर्धारित पाठ्यक्रम का अभ्यास कीजिए।

## MEDIA STUDIES

**Prepare a project file which should include the below listed assignments:-**

1. Prepare a photo feature on any topic by clicking photographs from the following shots and angles:-

- Extreme Wide Shot
- Wide Shot
- Medium Shot
- Close up Shot
- Extreme close up Shot
- High Angle
- Low Angle
- Eye level angle

2. Write the names of Top 10 Advertising Agencies in India and World. Also paste relevant pictures.

3. Paste the following advertisements from the newspaper:-

- Cross Promotion
- Informative Ads
- Institutional Ads
- Public Service Advertising
- Point of Purchase Advertising
- Financial Ads
- Classified Ads

4. Do a case study of Pepsi and Coca Cola and make a comparative study on the same.

5. Identify and paste the following features of an advertisement:-

- Logo
- Headline
- Tagline
- Sub Headline
- Copy

●Image

6. Identify and paste the following contents of a newspaper:-

●Headline

●Cartoons

●News Story

●Feature

●Editorial

●Letter to the editor

●Photograph

7. Differentiate between a cinema and television.

8. Prepare a journal on the topic of your choice.

## ECONOMICS

**These questions are to be done in the class registers itself.**

### **CH-4**

#### **ORGANISATION OF DATA**

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

<b>Mid-value</b>	5	15	25	35	45	55
<b>Frequency</b>	2	8	15	12	7	6

### **CH-5**

#### **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.

## CH-6

### DIAGRAMMATIC PRESENTATION OF DATA

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

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

## CH-7

### 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

## CH-8

### 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.

## MATHS/ INFORMATICS PRACTICES/ PHYSICAL EDUCATION

### MATHS

Q1. Find the value of  $i^2 + i^4 + i^6 + \dots + i^{2n+1}$ .

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

Q3. Find the value of  $\alpha$  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  $\text{Re}(z)$  and  $\text{Im}(z)$  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  $\frac{3}{4}$ , 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  $216 \text{ cm}^3$  and the total surface area is  $252 \text{ cm}^2$ . 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.

Q13. Find the value of  $9^{1/2}9^{1/4}9^{1/8} \dots \dots \infty$ .

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 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.

Note : IN ADDITION TO ABOVE PROBLEMS, KINDLY DO THE FOLLOWING:

- (1) Make one power point presentation on any topic from class XI Maths, elaborating its applications and also its link with ART.  
(ART INTEGRATED ACTIVITY).

### INFORMATICS PRACTICES

Q. 1 WRITE PYTHON PROGRAMS FOR FOLLOWING:

- Input name , class and date of birth of a student. Display his name with 'good morning' message and class with 'welcome' message.
- Write a program in python to accept a character from the user and display whether it is a vowel or consonant.
- Input principle , rate and time. Display simple interest and final amount.
- Input two numbers in a and b. find  $a^b$
- Write a program in python to find the largest among three inputted numbers.
- WAP using python to input cost and display selling price after increasing 25%
- 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
$\geq 90$	A+
$< 90$ but $\geq 75$	A
$< 75$ but $\geq 50$	B
$< 50$ but $\geq 33$	D
$< 33$	E

4. To find sale price of an item after inputting cost and profit (%).  $SP = CP + CP * \text{profit} / 100$
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 output-

```
x=100
x=x+100
x=x-5
print(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:

(a) b/6    (b) b//6              (c) b/4    (d) b%4              (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	XI E
2. SQL	XI E
3. Computer Network	XI E
4. Cyber Safety	XI C
5. Digital Society ,Law and Ethics	XI C

**REVISE THE SYLLABUS FOR PWT1**

**NOTE: Q 1 TO 6 to be done in IP register**

## **PHYSICAL EDUCATION**

**Practical 1-** Labelled diagram of 400 M Track and Field with computation.

**Practical 2-** One IOA recognized sports/game of your choice, labelled diagram of field and equipment. Also mention its rules, terminology and skills.

### **Instructions.**

- Do the practical in your practical file.
- All the Diagram should be clear.
- Labelled all the photos related to Terminology and Skills.