



**PRABHU DAYAL PUBLIC SCHOOL**

**CLASS XII**

**ACCOUNTANCY (055)**

**HOLIDAYS HOMEWORK**

## **Questions Bank (Important Questions CBSE)**

### **I. Practical Questions (Question Bank)**

1: Radha and Raman are partners in a firm sharing profits and losses in the ratio of 5:2. Capital contributed by them is Rs. 50,000 and Rs. 20,000 respectively. Radha was given salary of Rs. 10,000 and Raman Rs. 7,000 per annum. Radha advanced loan of Rs. 20,000 to firm without any agreement to rate of interest in deed while in deed rate of interest on capital was mentioned as 6% p.a. Profits for the year are Rs. 29,400. Prepare Profit and Loss Appropriation Account for the year ending 31st March 2015.

2: Ram & Sham are partners sharing profits & losses in ratio of 3:2. Ram being non-working partner contributes Rs. 20,00,000 as his capital & Shyam being a working partner, gets a salary of Rs. 8000 per month. As per partnership deed interest is paid @ 8% p.a. & salary is allowed. Profits before providing that for year ending 31st March 2015 were Rs. 80,000. Show the distribution of profits.

3: Amit and Sumit commenced business as partners on 01.04.2014. Amit contributed Rs. 40,000 and Sumit Rs. 25,000 as their share of capital. The partners decided to share their profits in the ratio of 2:1. Amit was entitled to salary of Rs. 6,000 p.a. Interest on capital was to be provided @ 6% p.a. The drawings of Rs. 4,000 were made by Amit and Rs. 8,000 was made by Sumit. The profits after providing salary and interest on capital for the year ended 31st March, 2015 were Rs. 12,000.

Draw up the capital accounts of the partners

1. When capitals are fluctuating

2. When capitals are Fixed

4: X and Y invested Rs. 20,000 & Rs. 10,000. Interest on capital is allowed @ 6% per annum. Profits are shared in ratio of 2 : 3. Profit for year ending 31.3.2015 is Rs. 1,500. Show allocation of profits when partnership deed.

(a) Allows interest on capital & deed is silent on treating interest as charge.

(b) Interest is charge against profit.

5: A and B are partners in business. Their capitals at the end of year were Rs. 48,000 & Rs. 36,000 respectively. During the year ended March 31st 2015 A's Drawings and B's drawings were Rs. 8,000 & Rs. 12,000 respectively. Profits before charging interest on capital during the year were Rs. 32,000. Calculate Interest on partners' capitals @ 10% p.a.

6: Aarushi and Simran are partners in a firm. During the year ended on 1st March, 2015 Aarushi makes the drawings as under:

Date of Drawing	Amount (Rs.)
01-08-2015	5,000
31-12-2014	10,000
31-03-2015	15,000

Partnership Deed provided that partners are to be charged interest on drawing @ 12% p.a. Calculate the interest chargeable to Aarushi Drawing by using Simple Interest Method and Product Method.

7: Calculate interest on drawings of Mr. X @ 10% p.a. if he has withdrawn Rs. 1000 per month (i) in the beginning of each Month (ii) In the middle each of month (iii) at end of each month.

Total Amount with withdrawn = Rs.  $1000 \times 12 = 12,000$ .

8: Calculate interest on drawing of Vimal if he withdrew Rs. 48000 evenly (i) at beginning of each Quarter (ii) in the middle of each Quarter (iii) At the end of each Quarter. Rate of interest is 10% p.a.

9: A and B entered into partnership on 1st April, 2014 without any partnership deed. They introduced capitals of Rs. 5,00,000 and Rs. 3,00,000 respectively. On 31st October, 2014, A advanced Rs. 2,00,000 by way of loan to the firm without any agreement as to interest.

The Profit and Loss Account for the year ended 31-03-2015 showed a profit of Rs. 4,30,000 but the partners could not agree upon the amount of interest on Loan to be charged and the basis of division of profits. Pass a Journal Entry for the distribution of the Profits between the partners and prepare the Capital A/cs of both the partners and Loan A/c of 'A'.

10: Manoj, Sahil and Dipankar are partners in a firm sharing profit and losses equally.

They have omitted interest on Capital @ 10% per annum for the year ended on 31st March, 2015. Their fixed Capital on which interest was to be calculated throughout were:

Manoj Rs. 3,00,000

Sahil Rs. 2,00,000

Dipankar Rs. 1,00,000

Give the necessary adjusting journal entry with working notes.

11: A and B are partners in a firm sharing profits and losses in the ratio 3:2. The following was the Balance Sheet of the firm as on 31.3.2015.

Balance Sheet  
As on 31-3-2015

Liabilities	₹	Assets	₹
Capitals		Sundry Assets	80,000
A 60,000			
B 20,000	80,000		
	80,000		80,000

The profits Rs. 30,000 for the year ended 31-03-2015 were divided between the partner, without allowing interest on capital @ 12% p.a. and salary to A Rs. 1,000 per month. During the year A withdrew Rs 10,000 and B Rs. 20,000.

Pass the necessary adjustment entry and show your working clearly.

12: Ram, Shyam & Mohan are partners in a firm sharing profit & losses in the ratio of 2:1:2. Their fixed capitals were Rs. 3,00,000, Rs. 1,00,000 and Rs. 2,00,000 respectively. Interest on capital for the year ending 31<sup>st</sup> March, 201 was credited to them @ 9% p.a. instead of 10% p.a. The profits for the year before charging interest was Rs. 2,50,000. Prepare necessary adjustment entry.

13: A, B & C are partners in a firm sharing profits & losses in ratio of 2:3:5. Their fixed capitals were Rs. 15,00,000, Rs.30,00,000 & Rs. 60,00,000 respectively. For the year ended 31st March 2015, interest was credited 12% instead of 10%. Pass the necessary adjustment entry.

14: A and B were partners in a firm sharing profits and losses in the ratio of 3:2. They admit C for 1/6th share in profits and guaranteed that his share of profits will not be less than Rs. 25,000. Total profits of the firm for the year ended 1st March, 2015 were Rs. 90,000. Calculate share of profits for each partner when.

1. Guarantee is given by firm.
2. Guarantee is given by A
3. Guarantee is given by A and B equally.

**Test Paper (Self-Assessment)**  
**Ch-2 Accounting for Partnership Firms-Fundamentals**

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1. Below are listed Content of partnership Deed except:
  - a. Ratio in which profit or losses shall be shared
  - b. Interest on Partners capital and drawings
  - c. Interest on Debentures
  - d. Name of the firm.
2. Which Section of the Partnership Act defines Partnership as the relation between persons who have agreed to share the profits of a business carried on by all or any of them acting for all?
  - a. Section 61
  - b. Section 48
  - c. Section 13
  - d. Section 4
3. From the following, what is important for a partnership?
  - a. More than 10 Persons
  - b. Registration
  - c. Sharing of Profits
  - d. Capital more than 15 Crore
4. Interest on capital as a charge against profits in case of insufficient profit is
  - a. Not allowed
  - b. All of these
  - c. Allowed in full irrespective of profit

d. Allowed to the extent of profit

5. From the following, identify a situation when fixed capitals of the partners may change?
- When drawings are made by the partners
  - When current accounts are opened
  - When there is loss in the business
  - When additional capital is introduced

6. Fill in the blank:

Manager's commission is a \_\_\_\_\_ against profits.

7. The net profit of X, Y and Z for the year ended March 31, 2016, was Rs 60,000 and the same was distributed among them in their agreed ratio of 3 : 1 : 1. It was subsequently discovered that the undermentioned transactions were not recorded in the books :

(i)	Interest on Capital @ 5% p.a.
(ii)	Interest on drawings amounting to X Rs 700, Y Rs 500 and Z Rs 300.
(iii)	Partner's Salary : X Rs 1000, Y Rs 1500 p.a.

The capital accounts of partners were fixed as : X Rs 1,00,000, Y Rs 80,000 and Z Rs 60,000. Record the adjustment entry.

8. Amann, Babita and Suresh are partners in a firm. Their profit sharing ratio is 2:2:1. Suresh is guaranteed a minimum amount of Rs 10,000 as share of profit, every year. Any deficiency on that account shall be met by Babita. The profits for two years ending December 31, 2016, and December 31, 2017, were Rs 40,000 and Rs 60,000, respectively. Prepare the Profit and Loss Appropriation Account for the two years.
9. Amit, Babita and Sona form a partnership firm, sharing profits in the ratio of 3: 2: 1, subject to the following:
- Sona's share in the profits, guaranteed to be not less than Rs 15,000 in any year.
- Babita gives guarantee to the effect that gross fee earned by her for the firm shall be equal to her average gross fee of the proceeding five years, when she was carrying on profession alone (which is Rs 25,000). The net profit for the year ended March 31, 2017, is Rs 75,000. The gross fee earned by Babita for the firm was Rs 16,000.

You are required to show Profit and Loss Appropriation Account (after giving effect to the above)

10. P and Q are partners with capitals of Rs.6,00,000 and Rs.4,00,000 respectively. The profit and Loss Account of the firm showed a net Profit of Rs.4,26,800 for the year.

Prepare Profit and Loss Appropriation account after taking the following into consideration:-

- Interest on P's Loan of Rs. 2,00,000 to the firm
- Interest on capital to be allowed @ 6% p.a.
- Interest on Drawings @ 8% p.a. Drawings were ; P Rs 80,000 and Q Rs. 50,000.
- Q is to be allowed a commission on sales @ 3%. Sales for the year was Rs. 10,00,000
- 10% of the divisible profits is to be kept in a Reserve Account.

11. Mohan, Neeraj and Peeyush are partners in a firm. They contributed Rs 75,000 each as capital three years ago. At that time, Peeyush agreed to look after the business as Mohan and Neeraj were busy. The profits for the past three years were Rs 45,000, Rs 30,000 and Rs 60,000 respectively. While going through the books of accounts, Mohan noticed that profit had been distributed in 1: 1: 2 ratio. When he enquired from Peeyush about this, Peeyush answered that since he looked after the business he should

get more profit. Mohan disagreed and it was decided to distribute profits equally retrospectively for the last three years.

You are required to make necessary corrections in the books of accounts of Mohan, Neeraj and Peeyush by passing an adjustment entry.

12. Mona, Nisha and Priyanka are partners in a firm. They contributed Rs 50,000 each as capital three years ago. At that time, Priyanka agreed to look after the business as Mona and Nisha were busy. The profits for the past three years were Rs 15,000, Rs 25,000 and Rs 50,000 respectively. While going through the books of accounts, Mona noticed that the profit had been distributed in the ratio of 1: 1: 2. When she enquired from Priyanka about this, Priyanka answered that since she looked after the business she should get more profit. Mona disagreed and it was decided to distribute profit equally retrospectively for the last three years.

You are required to make necessary correction in the books of accounts of Mona, Nisha and Priyanka by passing an adjustment entry.

13. S and P are partners in a firm sharing profits and losses equally. On 1st April, 2011, the capital of the partners were, S Rs 20,000 and P Rs 16,000. The profit and loss account of the firm showed a net profit of 37,500 (before interest on P's loan) for the year ended 31st March, 2012. Considering the following information, prepare the profit and loss appropriation account of the firm and the partners' capital account.

- Interest on capital to be allowed @ 6% p.a.
- Interest on P's loan account of Rs 10,000 for the whole year.
- Interest on drawings of partners @ 6% p.a. Drawings being S Rs 4,000 and P Rs 3,000.
- Transfer 10% of the distributable profits to the reserve.

14. Complete the missing amounts in the following accounts :

#### Profit and Loss Appropriation Account

Dr.				Cr.
Particulars		(Rs)	Particulars	(Rs)
To Partner's Salary A/c			By Net Profit as per Profit and Loss A/c	3,00,000
B's Current A/c	---		Less: Interest on B's Loan (20,000××6/100)	--
C's Current A/c	--	---	By Interest on Drawings A/c:	
To Interest on Capital A/c:			A's Current A/c	--
A's Current A/c	11,000		B's Current A/c	--
B's Current A/c	8,750		C's Current A/c	--
C's Current A/c	4,500			
To Profit transferred to A/cs				
A	--			
B	--			
C	--	--		
		3,06,500		3,06,500

### Partner's Current Account

Dr.							Cr.
Particulars	A	B	C	Particulars	A	B	C
To Balance c/d		4,000		By Balance b/d	10,000		5,000
To Drawings A/c	--	--	--	By Salary A/c		20,000	30,000
To Interest on Drawings A/c	3,300	2,200	2,200	By Interest on Capital A/c	---	--	--
To Balance c/d	38,600	67,450	35,750	By Profit and loss Appr. A/c	92,900	92,900	46,450
	1,13,900	1,21,650	85,950		1,13,900	1,21,650	85,950

### Partner's Capital Account

Dr.							Cr.
Particulars	A	B	C	Particulars	A	B	C
To Bank A/c			10,000	By Balance b/d	1,00,000	80,000	50,000
To Balance c/d	--	--	--	By Salary A/c		20,000	30,000
	1,20,000	95,000	50,000		1,20,000	95,000	50,000

15. L, M, and N were partners in firm sharing profit in the ratio of 3 : 4 : 5. Their fixed capitals were L Rs 4,00,000 , M Rs 5,00,000 and N Rs 6,00,000 respectively. The partnership deed provided for the following:

- v. Interest on capital @ 6% p.a.
- vi. Salary of Rs 30,000 p.a. to N.
- vii. Interest on partner's drawings will be charged @ 12% p.a.

During the year ended 31.3.2009, the firm earned a profit of Rs 2,70,000. L withdrew Rs 10,000 on 1.4.2008. M withdrew Rs 12,000 on 30.09.2008. and N withdrew Rs 15,000 on 31.12.2008. Prepare profit and loss appropriation account for the year ended 31.3.2009.

- II. Drive link  
<https://drive.google.com/file/d/1RjiKWNw68qSb77QrF1c5T-6p2bCZjF3Z/view?usp=drivesdk>  
 Do all the MCQs of Chapter 2 Accounting for partnership firms – Fundamentals. Show your workings clearly.
- III. Prepare Project files.
- IV. Revise Chapter 2 Accounting for partnership firms – Fundamentals thoroughly. Test will be conducted after holidays.

### NOTES:

- 1. Do your work in a separate notebook.
- 2. Request for answers can be mailed at – [neeruguptagoel@gmail.com](mailto:neeruguptagoel@gmail.com)

Happy Learning !

Holiday Home work

Class XII

Biology

1. Learn the concepts taught in class.
2. Read and understand the investigatory project.
3. Solve HOTS questions from the chapter taught in class.
4. Complete writing down the practical exercises in record file.
5. Practice drawing the diagrams and labeling them.

**PRABHU DAYAL PUBLIC SCHOOL**

**CLASS XII**

**BUSINESS STUDIES (054)**

**HOLIDAYS HOMEWORK**

**I. PROJECT WORK**

Prepare Project File as discussed in the class.

Link for CBSE guidelines regarding Business Studies Curriculum and Project Work.

[https://drive.google.com/file/d/18p-jGvW6LCI\\_K2BwZlZBzthSISHN5tMj/view?usp=sharing](https://drive.google.com/file/d/18p-jGvW6LCI_K2BwZlZBzthSISHN5tMj/view?usp=sharing)

Link for Sample Project File

<https://drive.google.com/file/d/18ZBxeQWIk8WMr4NM92alwx-M5234KR3I/view?usp=sharing>

**PLS NOTE, HOLIDAY HOME WORK IS TO BE DONE IN SEPARATE REGISTER.**

**II. GOOGLE DRIVE LINK FOR MCQs**

[https://drive.google.com/file/d/1E\\_3Nnrr-bYKutIxVOEJgn-vZLq3NZ-IV/view?usp=drivesdk](https://drive.google.com/file/d/1E_3Nnrr-bYKutIxVOEJgn-vZLq3NZ-IV/view?usp=drivesdk)

Write answers for all MCQs in your HHW register for Chapters 3, 11 and 12.

**III. TRUE / FALSE**

State whether the following are true or false.

- (i) Business has a moral justification for Consumer protection.
- (ii) In addition to rights, a consumer also has some responsibilities.
- (iii) A complaint can be made to a District Commission when the value of the goods or services in question, along with the compensation claimed exceeds Rs. 1 Crore.
- (iv) The Consumer Protection Act provides for six consumer rights.
- (v) ISI is the quality certification mark used in case of food products.
- (vi) Under the Consumer Protection Act, a complaint can be filed by a consumer for a defective good and also for deficiency in service.

**IV. MCQs:**

1. Which of the following does not characterise the business environment?

- (a) Uncertainty                      (b) Employability                      (c) Relativity                      (d) Complexity

2. Which of the following best indicates the importance of the business environment?

- (a) Identification of opportunities and threats                      (b) Improvement in performance  
(c) Coping with rapid changes                      (d) All of them

3. Which of the following is an example of social environment?  
(a) Money supply in the economy      (b) Consumer Protection Act  
(c) The constitution of the country      (d) Composition of family

4. Liberalization means

- (a) Integration among the economies      (b) Reduced government controls and restrictions  
(c) Policy of planned disinvestment      (d) None of them

#### **V. Short Answer Type:**

1. Enumerate the various Acts passed by the Government of India which help in the protection of consumers' interests.

2. Who can file a complaint in a consumer court?

3. What kind of cases can be filed in a State Commission?

4. Explain the redressal mechanism available to the consumers under the Consumer Protection Act when the value of the goods in services exceeds 10 crores.

5. What do you understand by business environment?

6. Briefly explain the following:

- (a) Liberalisation  
(b) Privatisation  
(c) Globalisation

7. Explain, with examples, the difference between general and specific environment.

8. What functions does the marketing play with process of exchange of goods and services? Explain.

9. Distinguish between the product concept and production concept of marketing.

10. Product is a bundle of utilities? Do you agree? Comment.

11. 'Products is a mixture of tangible and intangible attributes'. Discuss.

12. Discuss the role of intermediaries in the distribution of consumer non-durable products.

13. How does branding help in creating product differentiation? Does it help in marketing of goods and services? Explain.

## **Holiday Homework**

### **Class-XII**

### **Subject-Chemistry**

1. Search for the topic of investigatory project and complete the theoretical part of the project
2. Revise the portion of syllabus completed in the class and solve at least 2 numericals daily of the chapters
  - i. Electrochemistry
  - ii. Solutions
3. Solve the assignments uploaded in the Google Classroom

**\*Note- Use appropriate A4 size sheets for the project work. Do the assignments and numerical in a separate notebook.**

## **HOLIDAYS HOMEWORK**

### **COMPUTER SCIENCE**

#### **CLASS XII**

Do the following assignment in CS notebook.

Programming language-python

1 a) Write any two features of dictionary, list and tuples?

b) What are actual and formal parameters?

c) Explain default and positional arguments?

d) Explain following file modes .-

r,rb,r+,rb+

w,wb,w+,wb+

a,ab,a+,ab+

c) list different file operations.

d) what is file handle?

e) Explain scope of a variable in python by giving an example.

2. write a program to find the maximum element in the list entered by the user.

3. Write a program to perform linear search.

4. Write a function to find the sum of all values which are ending with 3 from a list. Function is receiving list as parameter.

5. Write a program to input 3 students names and their age to store it in dictionary and print the age of a particular student.

6. Write a program which accepts a number from the user and print the frequency of the number in the list lst given under, if the number is not in the list it should print "number not available".

7 Write a program to perform write ,append and read operation in the text file.

8 Create a dictionary with the roll number, name and marks of n students in a class and display the names of students who have scored marks above 75.

9 Write a function which receive x and n as parameters and return the sum of the following series:  $1+x+x^2+x^3+x^4+. \dots\dots\dots x^n$

10. Write a program to read a text file by using the following read methods-

read()

read(n)

readline()

readlines()

**PRABHU DAYAL PUBLIC SCHOOL**

**HOLIDAYS HOMEWORK**

**ECONOMICS (030)**

**CLASS XII**

1. Practice the following numerical questions from the notes shared in the class:
  - \*Chapter - National income: From Pg 22-Q.35 till Pg 38- Q.73. Show your workings clearly.
  - \*Questions are to be done in a separate homework notebook.
2. Prepare a project as per CBSE guidelines as briefed in the class. You have to abide by the topic allotted to you only.

**GUIDELINES -**

\*Use a ring file as your project file and cover it neatly. Write your particulars on the project file which include- Name, Board Roll. No, Subject, Class & Section, Session: 2022-23 and Topic.

\* Project should be of 3,500-4,000 words (excluding graphs and diagrams) covering the entire content and should be hand written only.

\*You can include newspaper articles, IMF/World bank reports, NITI Aayog reports, Government policies etc.

\* Plagiarism is not allowed and you must mention the source of the information to ensure authenticity of the research work.

\*Presentation of the project should be in the following manner-

1. Topic
2. Acknowledgement
3. Certificate
4. Index
5. Introduction of topic
6. Causes, Consequences and remedies
7. Various stakeholders and effect on each of them
8. Advantages and disadvantages of situations or issues identified.
9. Short-term and long-term implications of economic strategies suggested in the course of research.
10. A case study or real life application of the topic is a must.
11. Conclusion
12. Bibliography – Citation of materials referred to should be included.
13. Thank you sheet

# HOLIDAY HOMEWORK

## CLASS 12 ENGLISH

### ENGLISH PROJECT

The Project - Portfolios is a compilation of the work that the students produce during the process of working on their ALS project.

**The Project- Portfolio MUST include the following pages arranged in the order mentioned below:-**

1. Cover page, with title of project, school details / details of students.
2. Index
3. Statement of purpose /objectives /goals
4. Certificate of completion under the guidance of the teacher.
5. Action plan for the completion of assigned tasks.
6. Materials such as pictures, paper cuttings ,scripts for the survey, questionnaires for interview and other material evidence of learning progress and academic accomplishment .
7. A report/essay on the topic of your choice on the basis of the understanding and knowledge you have acquired in the process of doing the project in 800 -1000 words
8. Student reflections written in a paragraph that captures the positive learning experiences of the students.
9. Lists of resources / bibliography

Students are free to choose **ANY ONE of the given topics in consultation with the teacher** and work according to the guidelines given.

- 1.The pain that is inflicted on the people of a country or territory by its conquerors by taking away the right to live in their country. (eg. The war fought between Ukraine and Russia and its effect on people there and world over.)
- 2.The plight of street children forced into labour early in life and denied the opportunities of schooling because of the indifference of the society and the political class to the suffering poor. ( Lost Spring )
- 3.Human loneliness and the need to bond with others, is felt deeper during the days of pandemic. Present a report on the basis of your survey

4. The leadership shown by Mahatma Gandhi to secure justice for oppressed through convincing argumentation and negotiation.
5. Contributions made by anonymous Indians to the freedom movement. OR The unsung heroes of freedom movement.
6. A person you would like to have as a role model -a brief insight into his/her achievements, personality and how they have a positive influence on the youth of the country.
7. Present a brief report on the life and works of any ONE of the poets of your choice  
( from Book Flamingo)
8. The troubles associated with the modern urban lifestyle and how can we try to cope up with them? (THE THIRD LEVEL)
9. Often we are caught in a dilemma between patriotism towards our country and need to follow the religion of Humanitarianism.
10. Impact of online learning on students.
11. Social networking is the lifeline of the modern world.
12. Entrance examination should remain as the ONLY criteria for admission to higher studies.
13. Impact of corona on the livelihood of people.
14. Climate change is the greatest threat that humanity is facing today.
15. Young entrepreneurs with innovative start-ups will pave the way for the progress of the nation.

## **Holiday Homework**

Geography

Class XII

### **Practical Work**

#### **Important Instructions**

- Do the Practical work On A3 sheets
- Sheets can be plain or coloured
- Don't use red colour for headings or written work
- Written work, diagrams, tables and maps should be neat and legible

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

Chapter 1 -Data its Sources and Compilation

Chapter 2- Data Processing

Chapter 3- Graphical Representation of Data

Chapter 6-Spatial Information Technology

#### **Theory part**

#### **Geography Map File**

- ❖ **Refer the Map list mentioned in the Geography Syllabus 2022-23 by CBSE**

**for both Fundamentals of Human Geography Textbook and India People and Economy Textbook**

#### **Important Instructions**

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

- ❖ **Revise the Completed Syllabus**

**प्रभुदयाल पब्लिक स्कूल**  
**ग्रीष्मकालीन अवकाश गृह कार्य**

**कक्षा - बारहवीं**

**विषय - हिंदी**

प्रिय विद्यार्थियो , आप 12वीं कक्षा के विद्यार्थियों के लिए यह अवकाश आपके विद्यालय जीवन का अंतिम अवकाश सिद्ध होने जा रहा है , आप इस अवसर का अधिकाधिक उपयोग करते हुए पूरी तरह मन लगाकर न केवल हिंदी विषय को अपितु हर विषय को ध्यान से पढ़ कर आने वाली बोर्ड परीक्षाओं के लिए स्वयं को तैयार कर लीजिए , साथ ही साथ दिए जा रहे गृह कार्य को भी बहुत अच्छे तरीके से पूरा कर लीजिए।

१ . हिंदी का कोई भी दैनिक समाचार पत्र लीजिए और लगभग 15 दिनों के लिए निम्नलिखित विषयों पर दिए गए समाचारों की कतरनें छोटकर उन्हें एक फाइल में संग्रहीत कर लीजिए । दिए जा रहे विषय हैं : राजनीति , विज्ञान , खेल , धर्म , स्त्री जगत , बाज़ार , मनोरंजन , स्वास्थ्य और अपराध जगत आदि । इन्हें ध्यान से पढ़ कर इनमें से कम से कम पांच से छह विषयों को लेते हुए( 1 जून से 15 जून ) तक के समाचार समाचारपत्र रूप में तैयार कीजिए ।

२ . निम्नलिखित विषयों पर 150 शब्दों में रचनात्मक लेख लिखिए :

- १ . हम इंटरनेट का इस्तेमाल क्यों न करें
- २ . घर से स्कूल तक का सफ़र
- ३ . कामकाजी महिला का एक दिन
- ४ . खाली जेब बाजार में एक दिन

३ . शिक्षा और रोज़गार की खबरों पर आधारित एक समाचार पत्रिका तैयार कीजिए जिसके कम से कम पांच पृष्ठ हों , साथ ही पत्रिका का मुखपृष्ठ अर्थात cover page भी सुंदर कलात्मक ढंग से तैयार कीजिए ।

४ . अपनी पसंद का कोई एक प्रिय साहित्यकार चुनिए और उनकी कम से कम सात - आठ रचनाओं का संकलन तैयार करके एक सचित्र फ़ोल्डर बनाइए ।

**विशेष :** अभी तक पढ़ाए गए पाठ्यक्रम को याद करते हुए आगामी परीक्षाओं की तैयारी कर लीजिए । छुट्टियों में आप अपने हिंदी के रजिस्टर को पूरा कर लीजिए ।

अवकाश - कालीन अपना पूरा काम करके एक फ़ोल्डर बनाकर अपने पास सुरक्षित रख लीजिए ।

## HOLIDAYS HOMEWORK

### CLASS - XII MATHEMATICS

Q-1 If  $f(\theta) = \begin{bmatrix} \cos\theta & \sin\theta \\ -\sin\theta & \cos\theta \end{bmatrix}$  then find  $f(\alpha), f(\beta)$       ans  $f(\alpha + \beta)$

Q-2 If  $\begin{bmatrix} 5 & 4 \\ 1 & 1 \end{bmatrix}X = \begin{bmatrix} 1 & -2 \\ 1 & 3 \end{bmatrix}$ , find matrix X.      ans  $\begin{bmatrix} -3 & 14 \\ 1 & 3 \end{bmatrix}$

Q-3 If A and B are the skew symmetric matrices of same order then prove that (i)  $AB+BA$  is symmetric matrix (ii)  $AB-BA$  is skew symmetric matrix.

Q-4 If  $f(x) = x^2 - 5x + 7$ , find  $f(A)$  where  $A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$  hence find  $A^{-1}$  and  $A^4$       ans  $f(A)=0$ ,  
 $A^{-1}$  and  $A^4$  are  $\frac{1}{7}\begin{bmatrix} 2 & -1 \\ 1 & 3 \end{bmatrix}$  and  $\begin{bmatrix} 39 & 55 \\ -55 & -16 \end{bmatrix}$

Q-5 If  $A = \begin{bmatrix} 0 & -\tan\alpha/2 \\ \tan\alpha/2 & 0 \end{bmatrix}$

Then show that  $I+A=(I-A)\begin{bmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{bmatrix}$

Q-6 If A is 3 X3 matrix and  $|A|=4$  then find (i)  $|2A|$  (ii)  $|3A^{-1}|$  (iii)  $A \cdot \text{Adj}A$       ans  $\pm 16, \pm 27/2, \pm 2I$

Q-7 Using matrix, solve the equations

$2x+y=4, x-y=-1$       ans 1,2

Q-8 Using matrix, solve the equations

$4x+2y+3z=2, x+y+z=1, 3x+y-2z=5$       ans  $1/2, 3/2, -1$

Q-9 If  $A = \begin{bmatrix} 4 & 2 & 3 \\ 1 & 1 & 1 \\ 3 & 1 & -2 \end{bmatrix}$  find  $A^{-1}$ , hence solve the equations  $4x+y+3z=7, 2x+y+z=3, 3x+y-2z=1$

Ans 1,0,1

Q-10 find  $\begin{bmatrix} 4 & 2 & 3 \\ 1 & 1 & 1 \\ 3 & 1 & -2 \end{bmatrix} \begin{bmatrix} -3 & 7 & -1 \\ 5 & -17 & -1 \\ -2 & 2 & 2 \end{bmatrix}$ , hence solve the equations  $4x+y+3z=7, 2x+y+z=3, 3x+y-2z=1$

Ans 1,0,1

Q-11 If  $A = \begin{bmatrix} 4 & 2 & 3 \\ 1 & 1 & 1 \\ 3 & 1 & -2 \end{bmatrix}$  find  $A^{-1}$ , hence solve the equations  $4/x + 2/y + 3/z = 2$ ,  $1/x + 1/y + 1/z = 1$ .  
 $3/x = 1/y - 2/z = 5$  ans  $2, 2/3, -1$ .

Q-12 Relation R is defined on set on real numbers S as  $R = \{(a,b): a,b \in S, 1+ab > 0\}$  then show that R is reflexive and symmetric but not transitive relation.

Q-13 Relation  $R = \{(a,b): a \leq b^3, a, b \in \text{real nos}\}$  show that R is neither reflexive nor symmetric nor transitive.

Q-14  $A = \{1, 2, 3, 4, \dots, 9\}$  Relation R is defined on  $A \times A$  as  $(a,b) R (c,d)$  then  $a+d = b+c$ , show that R is equivalence relation on  $A \times A$ . also find the equivalence class of  $(2,5)$

Ans  $[(2,5)] = \{(1,4), (2,5), (3,6), (4,7), (5,8), (6,9)\}$

Q-15  $f: \mathbb{R} \rightarrow \mathbb{R}$ ,  $f(x) = 2|x|$ , show that f is neither one –one nor on to.

Q-16 If  $f: \mathbb{R} - \{2\} \rightarrow \mathbb{R} - \{1\}$ ,  $f(x) = \frac{x-1}{x-2}$  then show that f is bijective function.

Q-17 Let  $f: \mathbb{N} \rightarrow \mathbb{R}$ ,  $f(x) = 4x^2 + 12x + 15$ , show that f is one- one but not on to.

Q-18 Let  $f: \mathbb{R}_+ \rightarrow [-5, \infty)$   $f(x) = 9x^2 + 6x - 5$ , show that f is bijective function.

Q-19 (i) If  $\sin(\sin^{-1} \frac{1}{5} + \cos^{-1} x) = 1$ , then find x. ans 1

(ii) Evaluate  $\tan^{-1}(\tan 3\pi/4) + \cos^{-1}(\cos 3\pi/4)$  ans  $\pi$

Q-20 (i) domain of  $\sin^{-1}(1 - 2x) + \sin 3x$  ans  $[0, 1]$

(ii) Evaluate  $\cos^{-1}(-1/2) + \tan^{-1}(-\sqrt{3}) + \sec^{-1}(-\sqrt{2})$  ans  $13\pi/12$

Q-21 Draw the graphs of  $\sin^{-1} x$  and  $\cos^{-1} x$ , where  $x \in [-1, 1]$

.....

PRABHU DAYAL PUBLIC SCHOOL  
SUMMER HOLIDAY HOMEWORK  
PHYSICAL EDUCATION (048)  
CLASS- XII

- **Record File shall include:**

1. Practical 1- Fitness tests administration for all items.
2. Practical 2- Procedure for Asanas, Benefits and Contradictions for any two Asanas for each lifestyle disease 5 ( Obesity, Hypertension, Diabetes, Backpain and Asthma)
3. Practical 3- Procedure for Administering Senior Citizen Fitness Test for 5 elderly family members.
4. Practical 4- Any one game of your choice out of the list below. Labelled diagram of field and equipment ( Rules, Terminologies and Skills)

List of games:

Basketball

Football

Kabaddi

Kho- Kho

Volleyball

Handball

Cricket

Bocce and Unified Basketball ( CWSN Children With Special Needs – Divyang)

- **Note:**

Consider the chapters from the book

Yoga and Lifestyle

Test and Measurement

5\*2 means 2 Asanas for each lifestyle disease means 10 Asanas in total should be there.



## **HOLIDAY HOMEWORK**

### **SUBJECT-PHYSICS**

### **CLASS-XII**

The holiday homework in Physics is comprised of below mentioned parts. You are expected to do all of them and submit in accurate form after your summer vacations get over:

1. Make complete Physics Practical file and Activity file in separate files respectively. The pdfs for the same are already provided to you. On the plain side of your file, for each experiment, make empty Observation table and write all points of the Observation with blanks. They will be filled after you perform the practical in Physics lab. Similarly, calculations and graphs will be done with your own readings.
2. Prepare complete Project report for the investigatory project allotted to you. Once the project is performed in the lab, then only write readings, do calculations and draw graphs respectively in your project report.
3. Do all the intext solved examples of Chapter 1 and Chapter 2 of NCERT in your homework notebook.
4. Do all the end chapter exercise given at the end of Chapter 1 and Chapter 2 of your NCERT in your homework notebook. Don't do Additional exercise which is also there after each chapter of NCERT.

**NOTE: FOR POINTS 3 AND 4, THERE IS NO NEED TO MAKE SEPARATE HOLIDAY HOMEWORK NOTEBOOK. DO THEM IN YOUR REGULAR HOMEWORK NOTEBOOK OF PHYSICS.**

**HOLIDAY HOMEWORK**  
**CLASS- XII**  
**SUBJECT- POLITICAL SCIENCE**

1. Prepare a Project as per CBSE Guidelines, as explained in class, on the allotted topic.
2. Conduct a detailed study on the Russia-Ukraine war, comparing it with Indo-Pak war of 1999.
3. Revise the portion of syllabus completed in the class and write at least 2 answers daily after understanding the concept.

**Note:**

1. Use appropriate A-4 size files for the compilation of project work.
2. Use A-4 size sheets for putting in the detailed study regarding Russia-Ukraine and Indo-Pak wars.
3. Make a separate notebook for writing the answers after revision.

Q.1. Answer the following based on the series given below.

```
import pandas as pd
```

```
list1=[1,2,3,4,5,6,7,8]
```

```
list2=['swimming','tt','skating','khokho', 'bb', 'chess', 'football','cricket']
```

```
school=pd.Series(list1,index=list2)
```

```
school.name=("little")
```

```
print (school*2) #statement 1
```

```
print (school.tail(3)) # statement 2
```

```
print (school["tt"]) # statement 3
```

```
print (school[2:4]) # statement 4
```

```
print (school[school<3]) #5
```

**i. Choose the correct name of the series object given above.**

a) list1 b) list2 c) school d) little

**ii. Write the correct output for the fiveprint statements above**

**iii Give the output of the following program**

```
import pandas as pd
```

```
s =pd.Series([10, 20, 30, 40, 50, 60, 70, 80], index
```

```
=['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h'])
```

```
print(s[2:5])
```

```
print(s[1:7:2])
```

**iv Fill the missing statement to retrieve the first three elements in the Series**

```
import pandas as pd
```

```
s =pd.Series([1, 2, 3, 4, 5], index =['a', 'b', 'c', 'd', 'e'])
```

```
print(s[ _ ])
```

Its output is as follows –

a 1

b 2

c 3

**v Fill the missing values to get the desired output.**

```
import pandas as pd
```

```
name=[ 'Harsh', 'Arun', 'Ankur', 'Harpahul', 'Divya', 'Jeet']
```

```
empno=[101, 102, 103, 104, 105, 106]
```

```
p=pd.Series(_____, index=_____)
```

```
print ( 'name of empno 101 is', p[_____])
```

Output

name of empno 101 is Harsh

vi Write code to show rows of those empno which are greater than 103

```
import pandas as pd
empno=[101, 102, 103, 104, 105, 106, 107]
p=pd.Series(empno)
```

-----

(vii) Write python code to create the following series

```
101 Harsh
102 Arun
103 Ankur
104 Harpahul
105 Divya
106 Jeet
```

- show details of 1st 3 employees using head command
- show details of last 3 employees using tail command
- show details of 1st 3 employees without using head command
- show details of last 3 employee without using tail command
- show value of index no 102
- show 2nd to 4th records
- show values of index no=101, 103, 105
- show details of "Arun"

## Q.2 DATAFRAME

Consider the given dataframe STOCK and answer the following questions:

	item	manf	qty	price
l1	laptop	dell	5	45000
m1	mobile	samsung	2	12000
l2	laptop	acer	3	30000
ms1	mouse	hp	10	1000

- Wrtie the code to create the above dataframe
- Display the details of all the laptops (use boolean indexing)**
- Display the details of manufacturers with prices**
- Insert a column named "color" with the following values (black, black, grey, white)**
- Insert the given rows to store the following details**

	item	manf	qty	Price	color
m2	mobile	oppo	15	15000	blue
sp1	speaker	Bose	4	20000	red

- Display the details of those items which have price less than 15000**
- Remove the column color permanently**
- Display the items of Samsung company in the stock**
- Add a column named "rating" with the following values ("A+", "A", "B", "B+", "A", "A+")**
- Delete row with index label l2 temporarily.**

### Q.3 SQL (revision xi class)

A Departmental store 'Iconic' is planning to automate its system so that they can store all the records on computer. They contacted a Software Company to make the software for the same. The company suggested that there is need of a front end and back-end software. The major challenge was to keep the record of all the items available in the store. To overcome the problem, the software company has shown the glimpses of the database and table required to resolve their problem:

Database Name: Iconic

Table Name: Garment

Attributes of the table: Gcode – Numeric, Gname – Character 25, Size - Character 5, Colour – Character 10, Price – Numeric

#### a) Write the statement to create the Garment Table

Consider the following records in 'Garment' table and answer the given questions:

**Table: GARMENT**

GCODE	GNAME	SIZE	COLOUR	PRICE
111	Tshirt	XL	Red	1400.00
112	Jeans	L	Blue	1600.00
113	Skirt	M	Black	1100.00
114	Jacket	XL	Blue	4000.00
115	Trousers	L	Brown	1500.00
116	LadiesTop	L	Pink	1200.00

- b) Write the statement to insert any one record
- c) Write the statement To delete the record with GCode as 116
- d) Give the output of : Select GName, Price from GARMENT order by Price Desc;
- e) Write the statement To change the colour of GARMENT with code as 116 to "Orange"
- f) What is the degree and cardinality of 'GARMENT' table?
- g) Write the statement to display size without duplicate
- h) Write the statement to display records in the price range 1100 to 1500
- i) Write the statement to display no of different colours available
- j) Write the statement to display minimum and average price with proper heading

### Q.4 Complete practical file questions of Python Pandas and Visualization.

### Q.5 Project work

The aim of the class project is to create tangible and useful IT applications. The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about the functioning of the organization, and how data are generated, stored, and managed. The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize. Data can be imported in Pandas for analysis and visualization. Learners can use Python libraries of their choice to develop software for their school or any other social good. Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects.