



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION : 2017-18**  
**SUBJECT: ENGLISH**  
**CLASS : XI**

**\*Holiday homework to be done in a separate notebook and to be submitted on the very day school reopens after summer break.**

1. You are working for an advertising agency. Draft an attractive advertisement for a company which is launching a new toothpaste.
  2. You want to sell your car as you are going abroad. Draft a suitable advertisement to be published in 'Hindustan Times' under the classified column.
  3. You are living in Dehradun and have a good knowledge of all the visiting places around here. Write a suitable advertisement for a newspaper, offering your service as a tourist guide during the coming summer vacation.
  4. Article writing.
    - a. License to drive is not a license to kill.
    - b. Poor physical fitness of school students.
    - c. Aping the western culture.
    - d. The need of saving each drop of water.
  5. Write out a poster on: a) Cruelty to Animals    b) Environmental Pollution
    - (i) Design a poster for the Science Exhibition you are going to organise in your school.
    - (ii) Design a poster for your school library on the value of books and reading in our life today. You may use slogans.
- \*DO NOT EXCEED 50 WORDS.**
6. Read the novel 'The Canterville Ghost' and write the character sketch of all the main characters. (in your classwork notebook)
  7. Read two books apart from your syllabus books and write book reviews.



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION : 2017-18**  
**SUBJECT: HINDI**  
**CLASS : XI**

**ग्रीष्मावकाश गृहकार्य**

**कक्षा- ग्यारहवीं      विषय- हिंदी**

**क.** 'अभिव्यक्ति एवं माध्यम' पुस्तक में से 1. जनसंचार माध्यम, 2. पत्रकारिता के विविध आयाम, 3. डायरी लिखने की कला, 4. कथा-पटकथा, 5. कार्यालयी लेखन और प्रक्रिया 6., स्ववृत्तलेखन और रोजगार संबंधी आवेदन पत्र, 7. शब्दकोश, संदर्भ ग्रंथों की उपयोगी विधि और परिचय पाठ पढ़ें एवं प्रत्येक में से 5 लघु प्रश्न-उत्तर तैयार करें।

**ख.** अपने पाठ्यक्रम के किसी कवि अथवा लेखक की पुस्तक पुस्तकालय से लेकर उस पर पुस्तक समीक्षा सजा कर बनाएं।



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**

**HOLIDAY HOMEWORK**

**SESSION: 2017-18**

**SUBJECT: MATHS**

**CLASS: XI**

**General Instructions:**

- **Submit your work in the class notebook.**
- **Present your work neatly.**

- Q1.** Draw the Venn diagrams to illustrate the following relationship among sets E, M and U, where E is the set of students studying English in a school, M is the set of students studying Mathematics in the same school, U is the set of all students in that school.
- All the students who study Mathematics study English, but some students who study English do not study Mathematics.
  - There is no student who studies both Mathematics and English.
  - Some of the students study Mathematics but do not study English, some study English but do not study Mathematics, and some study both.
  - Not all students study Mathematics, but every student studying English studies Mathematics.
- Q2.** From 50 students taking examinations in Mathematics, Physics and Chemistry, each of the student has passed in at least one of the subject, 37 passed Mathematics, 24 Physics and 43 Chemistry. At most 19 passed Mathematics and Physics, at most 29 Mathematics and Chemistry and at most 20 Physics and Chemistry. What is the largest possible number that could have passed all three examinations?
- Q3.** Two finite sets have  $m$  and  $n$  elements respectively. The total number of subsets of first set is 56 more than the total number of subsets of the second set. What are the values of  $m$  and  $n$ .
- Q4.** The set  $(A \cup B \cup C) \cap (A \cap B' \cap C')' \cap C'$  is equal to  
(A)  $B \cap C'$     (B)  $A \cap C$     (C)  $B \cup C'$     (D)  $A \cap C'$ .
- Q5.** Fill in the blanks in each of the following:
- The set  $\{x \in \mathbf{R} : 1 \leq x < 2\}$  can be written as \_\_\_\_\_.
  - When  $A = \phi$ , then number of elements in  $P(A)$  is \_\_\_\_\_.
  - If A and B are finite sets such that  $A \subset B$ , then  $n(A \cup B) =$  \_\_\_\_\_.
  - If A and B are any two sets, then  $A - B$  is equal to \_\_\_\_\_.
  - Power set of the set  $A = \{1, 2\}$  is \_\_\_\_\_.
  - Given the sets  $A = \{1, 3, 5\}$ ,  $B = \{2, 4, 6\}$  and  $C = \{0, 2, 4, 6, 8\}$ . Then the universal set of all the three sets A, B and C can be \_\_\_\_\_.
  - If  $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ ,  $A = \{1, 2, 3, 5\}$ ,  $B = \{2, 4, 6, 7\}$  and  $C = \{2, 3, 4, 8\}$ . Then  
(i)  $(B \cup C)'$  is \_\_\_\_\_ .      (ii)  $(C - A)'$  is \_\_\_\_\_ .
  - For all sets A and B,  $A - (A \cap B)$  is equal to \_\_\_\_\_.
  - Match the following sets for all sets A, B and C  
(i)  $((A' \cup B') - A)'$       (a)  $A - B$

- (ii)  $[B' \cup (B' - A)]'$  (b) A  
(ii)  $(A - B) - (B - C)$  (c) B  
(iv)  $(A - B) \cap (C - B)$  (d)  $(A \times B) \cap (A \times C)$   
(v)  $A \times (B \cap C)$  (e)  $(A \times B) \cup (A \times C)$   
(vi)  $A \times (B \cup C)$  (f)  $(A \cap C) - B$

**Q6.** Let  $A = \{1, 2, 3, 4\}$  and  $B = \{5, 7, 9\}$ . Determine

- (i)  $A \times B$  (ii)  $B \times A$  (iii) Is  $A \times B = B \times A$ ? (iv) Is  $n(A \times B) = n(B \times A)$ ?

**Q7.** Find  $x$  and  $y$  if: (i)  $(4x + 3, y) = (3x + 5, -2)$  (ii)  $(x - y, x + y) = (6, 10)$ .

**Q8.** If  $A = \{2, 4, 6, 9\}$  and  $B = \{4, 6, 18, 27, 54\}$ ,  $a \in A$ ,  $b \in B$ , find the set of ordered pairs such that 'a' factor of 'b' and  $a < b$ .

**Q9.** Find the domain and range of the relation  $R$  given by  $R = \{(x, y) : y = x + \frac{6}{x}; \text{ where } x, y \in \mathbf{N} \text{ and } x < 6\}$ .

**Q10.** Is the following relation a function? Justify your answer

(i)  $R_1 = \{(2, 3), (\frac{1}{2}, 0), (2, 7), (-4, 6)\}$

(ii)  $R_2 = \{(x, |x|) \mid x \text{ is a real number}\}$ .

**Q11.** Find the domain for which the functions  $f(x) = 2x^2 - 1$  and  $g(x) = 1 - 3x$  are equal.

**Q12.** Find the domain of (i)  $f(x) = \frac{x}{x^2 + 3x + 2}$ . (ii)  $f(x) = [x] + x$ .

**Q13.** Find the range of (i)  $\frac{|x-4|}{x-4}$  (ii)  $\sqrt{16-x^2}$

**Q14.** Redefine the function which is given by  $f(x) = |x-1| + |1+x|$ ;  $-2 \leq x \leq 2$ .

**Q15.** Find the domain of the function  $f(x) = \frac{1}{\sqrt{[x]^2 - [x] - 6}}$

**Q16.** State True or False for the following statements:

(i) The ordered pair  $(5, 2)$  belongs to the relation  $R = \{(x, y) : y = x - 5, x, y \in \mathbf{Z}\}$

(ii) If  $P = \{1, 2\}$ , then  $P \times P \times P = \{(1, 1, 1), (2, 2, 2), (1, 2, 2), (2, 1, 1)\}$

(iii). If  $A = \{1, 2, 3\}$ ,  $B = \{3, 4\}$  and  $C = \{4, 5, 6\}$ , then  $(A \times B) \cup (A \times C) = \{(1, 3), (1, 4), (1, 5), (1, 6), (2, 3), (2, 4), (2, 5), (2, 6), (3, 3), (3, 4), (3, 5), (3, 6)\}$ .

(iv). If  $(x - 2, y + 5) = (-2, \frac{1}{3})$  are two equal ordered pairs, then  $x = 4, y = -\frac{14}{3}$

(v). If  $A \times B = \{(a, x), (a, y), (b, x), (b, y)\}$ , then  $A = \{a, b\}$ ,  $B = \{x, y\}$ .

**Q17.** Revise and remember all the formulas of trigonometric functions.



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION: 2017-18**  
**SUBJECT: ECONOMICS**  
**CLASS: XI**

Practice value based questions from the text book and write down the answers in note book.

2. Search the current topics like- GST, Digital India, Demonetization, etc and collect the information about these topics.
  3. Prepare one chapter from the text book for your project work.
- **Make separate notebook for holiday's home work.**

### **STATISTICS NUMERICALS**

#### **[1] MEAN:**

- (i) Individual series: (6numericals)
  - 3 numerical direct method
  - 3 numerical shortcut method
- (ii) Discrete series (8numericals)
  - 4 numerical direct method
  - 4 numerical shortcut method
- (iii) Continuous series (8numericals)
  - 4 numerical direct method
  - 4 numerical shortcut methods
- (iv) 5 numerical step deviation method

#### **[2] MEDIAN:**

- (i) Individual series: (6numericals)
- (ii) Discrete series (10numericals)
- (iii) Continuous series (10numerical)



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION: 2017-18**  
**SUBJECT: POLITICAL SCIENCE**  
**CLASS: XI**

1. Get news of the bills introduced in 2016 and 2017 and the new amendments in the constitution of India and paste it in separate scrapbook.
2. Collect information related to the 2017 Uttarakhand legislative assembly elections and paste it in the scrapbook.
3. Study the pictures and answer what does the picture depicts in a separate note book.  
Chapter 1: page no.5,page no. 7, page no. 9,page no. 14  
Chapter 2: page no. 37  
Chapter 3: page no. 52, page no.,page no. 67, page no. 71,page no. 73



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION: 2017-18**  
**SUBJECT: HISTORY**  
**CLASS: XI**

**Prepare any one model from the following topics**

- 1. Civilization of Mesopotamia**
- 2. Tool of Ancient world**



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION: 2017-18**  
**SUBJECT: ACCOUNTS & BUSINESS STUDY**  
**CLASS: XI**

15. Distinguish between 'preliminary contracts' and 'provisional contracts'.

Ans.

Basis	Preliminary contracts	Provisional contracts
Signed	These are signed by promoter on behalf of company.	These are signed by company.
Timing	These are signed before incorporation.	These are signed after incorporation.
Binding	These are not binding on company. Promoter remains personally liable for these contracts.	These are binding on company after registration.

**Long Answer Questions**

1. What do you understand by a sole proprietorship firm? Explain its merits and limitations. [Refer to Page Nos. 38-41]
2. Why is partnership considered by some to be a relatively unpopular form of business ownership? Explain the merits and limitations of partnership. [Refer to Page Nos. 43-45]
3. Why is it important to choose an appropriate form of organisation? Discuss the factors that determine the choice of form of organisation. [Refer to Page Nos. 70, 71]
4. Discuss the characteristics, merits and limitations of cooperative form of organisation. Also describe briefly different types of cooperative societies. [Refer to Page Nos. 50-54]
5. Distinguish between a Joint Hindu family business and partnership. [Refer to Page No. 42, 43]
6. Despite limitations of size and resources, many people continue to prefer sole proprietorship over other forms of organisation. Why? Give merits of sole proprietorship. [Refer to Page Nos. 40, 41]
7. What is meant by the term 'Promotion'? Discuss the legal position of promoters with respect to a company promoted by them. [Refer to Page Nos. 62, 63]
8. Explain the steps taken by promoters in the promotion of a company. [Refer to Page No. 63, 64]
9. What is a 'Memorandum of Association'? Briefly explain its clauses. [Refer to Page No. 67]
10. Distinguish between 'Memorandum of Association' and 'Articles of Association'. [Refer to Page Nos. 67-69]
11. What is the effect of conclusiveness of the 'Certificates of Incorporation' and 'Commencement of Business'? [Refer to Page Nos. 64, 66]
12. Is it necessary for a public company to get its share listed on a stock exchange? What happens if a public company going for a public issue fails to apply to a stock exchange for permission to deal in its securities or fails to get such permission? [Refer on Page No. 65]

**REVIEW EXERCISES**

**Very Short Answer Type Questions**

1. Define the term business enterprise.
2. Explain whether the liability of a sole proprietor is limited to the extent of his share in business.
3. Write a note on 'Karta'.
4. Enumerate the two conditions necessary for formation of Joint Hindu Family Business.
5. Name the alternatives available to sole proprietor whose business is expanding.
6. Give three merits of sole proprietorship firm.
7. Define partnership.

8. Explain the concept of mutual agency in partnership firm.
9. Can a partnership firm have a minor partner?
10. Explain how a cooperative organisation is a democratic set-up.
11. Define a Joint Stock Company.
12. Explain how company is an artificial person.
13. What is meant by partner by estoppel?
14. State three merits of cooperative society.
15. Define promotion.
16. State the functions of promoter.
17. Define a prospectus.
18. Why is Articles of Association also called as Doctrine of Indoor Management?
19. What is a Statement in Lieu of Prospectus?
20. Define qualification shares.
21. What do you mean by minimum subscription?
22. How can Articles of Association be altered?
23. State the contents of Memorandum of Association.
24. What is a Certificate of Commencement of Business?

#### Short Answer Type Questions

1. Describe the privileges of private company over public company.
2. State the essential features of a private company.
3. Define cooperative organisation. Explain any three features of cooperative organisation.
4. Differentiate between the company and partnership.
5. Enumerate various types of cooperative societies.
6. Explain the procedure for registration of partnership firm. What are the consequences of non-registration?
7. Define Partnership Deed. Discuss its main contents.
8. Explain the steps in the incorporation stage.
9. Describe the legal status of a promoter.
10. Distinguish between a Memorandum of Association and Articles of Association.

#### Long Answer Type Questions

1. Explain the meaning and features of Joint Hindu Family Business.
2. Describe various types of partners.
3. List the factors that help in selecting a suitable form of organisation.
4. Explain any five merits and five demerits of partnership.
5. Explain the difference between the cooperative organisations and company form of business.
6. What do you understand by Sole Proprietorship? Outline its features.
7. Explain the procedure for formation of a company.
8. Explain the procedure of alteration of Memorandum of Association.
9. What is a prospectus of a company? Discuss its nature and importance.
10. Explain the meaning and contents of Articles of Association.

### Long Answer Questions

1. Explain the characteristics of business. [Refer to Page Nos. 15]
2. Compare business with profession and employment. [Refer to Page No. 12, 13]
3. Explain with examples the various types of industries. [Refer to Page Nos. 20-22]
4. Describe the activities relating to commerce. [Refer to Page Nos. 22, 23]
5. Why does business need multiple objective? Explain any five such objectives. [Refer to Page No. 16-18]
6. Explain the concept of business risk and its causes. [Refer to Page Nos. 25-27]

### REVIEW EXERCISES

#### Very Short Answer Type Questions

1. What is an Economic Activity?
2. Define Business Risk.
3. Define Insurable Risk.
4. Write a note on manufacturing industry.
5. Define Business.
6. What is meant by Industry?
7. What is meant by Primary Industry?
8. What is the peculiar feature of Construction Industry?

#### Short Answer Type Questions

1. Describe the concept of Business in modern context.
2. Define Business. Distinguish it from profession and employment.
3. Explain the social objectives of business.
4. Explain the Role of Profit in the Business.
5. Draw a chart showing the classification of Business Activities.
6. Explain the difference between Industry, Commerce and Trade.
7. Discuss the causes of Business Risk.

#### Long Answer Type Questions

1. Explain the meaning and characteristics of Business.
2. Describe the different types of risks involved in business transactions.
3. What are the types of utilities created by a business?
4. Briefly discuss the economic objectives of a business.
5. Why is Business considered as an Economic Activity?
6. Explain in detail the classification of Business Activities on the basis of their function.



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION : 2016-17**  
**SUBJECT:PHYSICS ,CHEMISTRY & BIOLOGY**  
**CLASS : XI**

Class XI Biology	<ol style="list-style-type: none"><li>1. Make a herbarium file with minimum 10 plant species.</li><li>2. Make a Question Bank of 10 questions each from chapter 1 to 5 Note: Questions should be other than the questions done in the class.</li></ol>	Do the question bank work in a separate thin note book
Class XI Chemistry	<ul style="list-style-type: none"><li>• Do all the formulae of unit 1 and unit 2</li><li>• Write definition of all the parameters of periodic table</li><li>• Learn and write about reactive intermediate of unit 12</li></ul>	In separate notebook
XI (Physics)	<ol style="list-style-type: none"><li>1. Make a Question Bank of 10 questions each from chapter 1 to 5 Note: Questions should be other than the questions done in the class.</li></ol>	Do the question bank work in a separate thin note book.

Note: Vacations are time to explore the world around you, experience new things, and make lasting memories. But don't forget to study and spend time with your parents and grandparents. Do take up some physical activity like walking, running or cycling too, to remain physically fit.



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**  
**HOLIDAY HOMEWORK**  
**SESSION : 2016-17**  
**SUBJECT: INFORMATICS PRACTICES**  
**CLASS : XI**

1. Write short note on the following:

- a) Keyword
- b) Identifiers
- c) Variable
- d) Data Type
- e) Java Virtual Machine and Byte Code

2. Write a program to make calculator which is capable of performing basic calculations.

3. Write a program to check whether the person is eligible to vote or not.

4. Write the difference between switch statement and else-if statement

5. Write a menu driven program to perform the rectangle operations and perform according to user's response

- 1. Area
- 2. Perimeter
- 3. Diagonal
- 4. Exit

6. Write a program to find the numbers when their sum and product is known. Take input from the user and use functions.

7. What will be the value of following, if j=5, k=5, and l=2 initially?

- i)  $(5 * ==j) \% 6$
- ii)  $(5 * j++) \% 6$
- iii)  $K - 8 - --l$
- iv)  $K = l = j++$

9. Write a statement that uses a conditional operator to set grant to 25 if speed is more than 110, and to 0 otherwise.

10. What is the result of following expression?

```
Y= (t=4, t+3);
```

11. What is the effect of absence of break in switch-case statement?

12. In a control structure switch-case, explain the purpose of using default.

13. Rewrite the following set of if-else statements in terms of switch – case statement.

a)

```
if(code=='A')
```

```
    System.out.println("Accountant");
```

```
else if(code=='c' || code=='g')
```

```
    System.out.println("Grade IV");
```

```
else if(code=='f')
```

```
    System.out.println("Financial Advisor");
```

b)

```
int inpu, calcval;
```

```
if( inpu == 5)
```

```
{
```

```
    calcval= inpu*25 -20;
```

```
    cout<<inpu + calcval;
```

```
}
```

```
else if( inpu ==10)
```

```
{
```

```
    calcval= inpu*20 -15;
```

```
    System.out.println( calcval);
```

```
}
```



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**

**HOLIDAY HOMEWORK**

**SESSION : 2016-17**

**SUBJECT:PAINTING**

**CLASS : XI**

- prepare 1 working lamp .



**ARMY PUBLIC SCHOOL BIRPUR, DEHRADUN**

**HOLIDAY HOMEWORK**

**SESSION : 2016-17**

**SUBJECT: PHYSICAL EDUCATIO**

**CLASS : XI**

- Do all short answer question carrying 1 mark from the exercise of chapters 1, 2, 3.