ARMY PUBLIC SCHOOL JAMMU CANTT
HOLIDAY HOMEWORK (2017-2018)
CLASS X

ENGLISH

1. **NOVEL-** Read 'The story of my life' chapter 1 to 8 and answer 2 questions from each chapter. You can refer to the questions from your text book at the end of each chapter.
2. **GRAMMAR:**
   a) The following passage has not been edited. There is an error in each line. Write the incorrect word and the correction in the space provided.

The passenger were waiting at	1)	_____ _____
the station when five policemen rushing	2)	_____ _____
into difference compartments of a	3)	_____ _____
train. After sometimes one of them	4)	_____ _____
comes out with two young men	5)	_____ _____
and soon the other policemen joined her.	6)	_____ _____
The men which had been arrested	7)	_____ _____
was been caught for a theft.	8)	_____ _____
They had stealed two cars	9)	_____ _____
or a motorcycle.	10)	_____ _____

   b) Fill in the blanks using suitable determiners from those given in the brackets.

1. Ann has _____ candies (any / some)
2. Bill doesn't have _____ money (any/ many)
3. Sue will give us _____ information (some / several)
4. There is _____ milk in the fridge. (a lot of / few)
5. I saw _____ people at the railway station. (many / one)
6. _____ of the cars parked belong to this company.(none / every)
7. I have seen him walking his dog in the park_____ night. (every / several)
8. The lab is equipped with _____ computers. (a couple of / all)
9. There were very _____ people at the shopping mall today. (more / few)

विषय : हिन्दी

प्र0 1 निम्नलिखित प्रश्नों के उत्तर 50 से 60 शब्दों में दीजिए :

(क) पठित पदों के आधार पर मीरा की भक्ति भावना पर प्रकाश डालिए।

(ख) बड़ा भाई छोटे भाई पर शासन करने के लिए कौन कौन सी युक्तियाँ अपनाता है?

(ग) डायरी का एक पन्ना पाठ के आधार पर भारतीय स्वाधीनता संग्राम की एक झाँकी प्रस्तुत कीजिए।

(घ) '' अनपढ़ होते हुए भी हरिहर काका अधिक समझदार और अनुभवी थे ''– हरिहर काका कहानी के आधार पर स्पष्ट कीजिए।

प्र0 (2) निम्नलिखित विषयों पर 80 से 100 शब्दों में अनुच्छेद लिखें :

(क) पराधीन को सुख कहाँ

(ख) शिक्षक दिवस पर मेरी भूमिका

(ग) आदर्श विद्यार्थी

प्र0 3 (क) किसी दैनिक समाचार पत्र के संपादक को शहर में बढ़ती जा रही बस दुर्घटनाओं पर चिंता प्रकट करते हुए पत्र लिखिए।

(ख) प्रधानाचार्य को आवेदन पत्र लिखिए जिसमें विद्यालय के मुख्य द्वार पर बैठे खोमचे वालों की शिकायत की गई हो।

MATHS

1..Find the value of k, for which one root of the quadratic equation $kx^2-14x+8=0$ is six times the other.

2. The ninth term of an AP is equal to seven times the second term and twelfth term exceeds five times the third term by 2. Find the first term and the common difference.

. 3. The minimum age of children to be eligible to participate in a painting competition is 8 years. It is observed that the age of youngest boy was 8 years and the ages of rest of participants are having a common difference of 4 months.If the sum of ages of all the participants is 168 years, find the age of eldest participant in the painting competition

4. The minimum age of children to be eligible to participate in a painting competition

is 8 years. It is observed that the age of youngest boy was 8 years and the ages of rest of participants are having a common difference of 4 months.If the sum of ages of all the participants is 168 years, find the age of eldest participant in the painting competition.

5. What is the smallest number which when divided by 35, 56 and 91 leaves remainders of

7 in each case.

6. Show that there is no positive integer n for which $\sqrt{n-1}+\sqrt{n+1}$ is rational.

7. If $\propto and\ \beta$ are the zeroes of the quadratic polynomial $f(x) = ax^2 + bx + c$, then evaluate

(i) $\alpha^4 + \beta^4$ (ii) $\frac{\alpha^2}{\beta^2} + \frac{\beta^4}{\alpha^4}$

8. If the zeroes of the polynomial f(x) = $ax^3 + 3bx^2 + 3cx + d\ \ are\ in\ A.P, prove\ that$

$2b^3 - 3abc + a^2d = 0.$

9. Find all zeroes of the polynomial f(x) = $2x^4 - 2x^3 - 7x^2 + 3x + 6$, if two of its zeroes are $-\sqrt{\frac{3}{2}}\ and\ \sqrt{\frac{3}{2}}.$

10. Represent the following pair of equations graphically and write the coordinates of points where the lines intersects y-axis $2x + y = 6\ and\ 2x - y + 2 = 0$. Also find the area of the triangle so formed.

11. Solve : $\frac{ax}{b} - \frac{by}{a} = a + b \ \ and \ ax - by = 2ab.$

12. Find the values of a and b so that the following system of linear equations have infinitely many solutions : (2a – 1) x +3y -5 =0 and 3x +(b -1)y -2 =0

13. For what value of k , the system of equations : kx + 3y = k- 3 and 12x + ky = k.

14. Jamila sold a table and a chair for Rs 1050, thereby making a profit of 10% on a table and 25% on the chair. If she had taken a profit of 25% on the table and 10% on the chair she would havegot Rs 1065. Find the cost price of each.

15. Two numbers are in the ratio 5:6. If 8 is subtracted from each of the numbers , the ratio becomes 4 : 5 . Find the numbers.

16. The sum of numerator and denominator of a fraction is 3 less than twice the denominator. If the numerator and denominator are decreased by 1 , the numerator becomes half the denominator. Determine the fraction.

17. A man walks a certain distance with a certain speed. If he walks ½ km an hour faster , he takes 1 hr less. But if he walks1km an hour slower , he takes 3 more hours. Find the distance covered by yhe man and his original rate of walking.

18. The sum of 5^{th} and 9^{th} terms of an A.P is 30. If its 25^{th} term is three times its 8^{th} term , find the A.P.

19. The sum of n termsof three arithmetical progressions are S1 ,S2 and S3. The first term of each is is unity and the common differences are 1,2 and 3 respectively . Prove that

    S1 +S3 = 2S2.

20. The ratio of the sum of n terms of two A.P's is (7n+1) : (4n+27) . Find the ratio of their mth terms.

SCIENCE

1) What is the resistance of 12m wire having radius 2 x 10^{-4} ? Specific resistivity is 3.14 x 10^{-8} Ω m
2) 320 J of heat is produced in 10 seconds in a 2Ω resistor. Find the amount of current flowing through the resistor.
3) A bulb is marked 60 W, how much energy does it consume, if used for 1 hour.
4) An electric device operates at 24 V and has a resistance of 8 Ω. Calculate the power consumed by the device and current flowing thorough it
5) A total of 7 x 10^{25} electrons flow through a current carrying conductor when connected through an external power supply for 30 seconds. Find the value of current in conductor
6) What are the highest and lowest resistance that can be secured by combining four coils of resistance 4Ω, 8Ω 12Ωand 24 Ω
7) Calculate the amount of heat generated when 18000 coulombs of charge is transferred in one hour through a potential difference in 50 V

8) Calculate the potential difference between two terminals of battery if 200 J of work is required to transfer the change of 20 C from one terminal of battery to other
9) 3 appliances of 50Ω , 25Ω and 250Ω are connected in parallel to a 110 V source. What is the resistance of an electron iron connected to same source that takes as much as current as the all 3 appliances and what is the current through it?
10) An electric bulb is rated 220 V and 100 W. Calculate the power consumed when it is operated on 110 V.
11) Draw a neat labelled diagram of human respiratory system
12) Write in table the different action of enzymes site of production and glands in digestive system.
13) List out the major events in photosynthesis along with reaction
14) Draw a neat labelled diagram of chloroplast
15) What are the pathways by which glucose breakdown takes place.?
16) Explain various types of chemical reactions with examples
17) What do you mean by rancidity and corrosion
18) Balance any 10 equations by table method

SOCIAL SCIENCE

CIVICS:

1. How have Belgium and Sri Lanka dealt with the question of power sharing differently?
2. Differentiate horizontal and vertical power sharing in modern democracies?
3. Describe any three demands of the Sri Lankan Tamils. How did they struggle for their demands?
4. Why was it felt earlier that undivided political power was better? What changes this notion and why?
5. Why did some leaders fear when the demand for formation of states on languages was raised? What was the outcome?
6. Argue in favour and against the local self government in India?
7. What is the basic nature of federal system?
8. Describe the features of 73rd amendment act of 1992.

HISTORY:

1. `A large city population was thus both a threat and an opportunity`. How? Explain with examples.
2. Describe how industrialisation changed the social status of women?
3. Crime became an object of widespread in London. Comment and state what steps were taken to control it?
4. Describe the features of big modern city of Calcutta as viewed by the gods in the novel written by Durgacharan Roy?
5. City development cannot take place without destroying communities and lifestyle. Arguments against and in favour.
6. In many cities of India today, there are moves to clear away the slums, where poor live. Discuss whether or not it is the responsibility of the government to make arrangement for the houses for these people. List values to be kept in mind while displacement these poor.
7. Explain various major problems faced by the people who migrated to Bombay during the 19th century.

ECONOMICS:

1. Why do you think average income is an important criterion for development? Explain?
2. Does availability of good health and educational facilities depend only on amount of money spend by the government on these facilities? What others factors could be relevant?
3. Why is the issue of sustainability important for development?
4. What is the main criterion used by the World Bank in classifying different countries? What are the limitations of this criterion? If any.

GEOGRAPHY

1. Explain any three reasons responsible for the formation of soil.
2. 'More availability of resources will not bring economic development'. Justify the statement.
3. Examine the ill effects of industrialization and urbanization on water resources.
4. Explain various problems associated with the construction of large dams. Give examples in support of your answer.

COMPUTER

Design Web pages for:

1. Write HTML code to display a list of five tourist places in India. Make name of those places hyperlinks which will open web pages for those tourist places. Also display an image of India Gate on the Home page.
2. Write HTML code to display your curriculum vitae in tabular form. Also display your photograph along with it.

Print out of the HTML code along with output of the above given web pages to be submitted in a file.

NOTE : Revise the syllabus of UT-1 for all the subjects.