

# LEELAWATI PUBLIC SCHOOL

## Holidays Homework

### CLASS X

#### Maths

All work done in holiday homework copy:

1. Write 5 pages on any mathematician.
2. Write the names of different types of methods to find the solution of linear pairs of equations in two variables with 10-10 examples of each.
3. Solve the quadratic equations by the method of completing the square.  
i.  $3x^2 - 5x + 2 = 0$  ii.  $x^2 + 4x + 5 = 0$  iii.  $2x^2 - 2\sqrt{2}x + 1 = 0$  iv.  $2x^2 + x + 4 = 0$
4. Find the quadratic polynomial whose sum and product of zeroes are  $\sqrt{2}+1$  and  $\frac{1}{\sqrt{2}+1}$ .
5. If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $2x^2 - 4x + 5$ . Then find the value of  $\alpha^2 + \beta^2$ . (Hint: Substitute the values of  $\alpha$  and  $\beta$  in  $(x+y)^2 = x^2 + y^2 + 2xy$ )
6. On dividing the polynomial  $4x^4 - 5x^3 - 39x^2 - 46x - 2$  by the polynomial  $g(x)$ , the quotient is  $x^2 - 3x - 5$  and remainder is  $-5x + 8$ . Find  $g(x)$ .
7. Divide and check whether the  $g(x)$  is factor of  $p(x)$  by division algorithm .  
(a)  $p(x) = x^4 - 3x^3 + 4x^2 - 8x + 4$ ,  $g(x) = x^2 - x + 2$   
(b)  $p(x) = 2x^4 - 3x^3 - 3x^2 + 6x - 2$ ,  $g(x) = x^2 - 2$
8. Write the definitions of different types of polynomials with examples on the basis of terms and degree.
9. Do practice all exercises of unit 2,3,4,5 in holidays homework copy.

#### science

1. State Ohm's law and derive its formula.
2. Explain different types of salt and also their properties, preparation and uses.
3. Write 30 chemical reaction and balance it.
4. Draw a circuit diagram containing resistance, key, battery voltmeter and ammeter.
5. You are supplied with a number of 100 ohm resistors. How could you combine some of these registers to make a 250 ohm resistor.
6. Write 5 to 10 pages on the importance of PH in our daily life.
7. Solve NCERT chap. 1, 2 and 12 exercise question in holiday homework copy.

#### HINDI

1. सूरदास जी के पदों में किनका चरित्र चित्रण किया गया है? अपने शब्दों में लिखो।
2. प्रेम और योग-ज्ञान के संघर्ष में गोपियों और उद्धव के संघर्ष में कौन प्रभावी रहता है?
3. निम्नलिखित विषयों पर 100 शब्दों में अनुच्छेद लिखो।  
1. ग्लोबल वार्मिंग मनुष्यता के लिए खतरा। 2. कोरोना वायरस एक महामारी। 3. बाल मजदूरी एक अभिशाप।
4. किसी प्रसिद्ध कंपनी की लग्जरी कार का विज्ञापन तैयार करो।
5. आस पास साफ सफाई रखने की जागरूकता- बढ़ाने वाला एक विज्ञापन तैयार करो।
6. आपके क्षेत्र में चारों ओर गंदगी फैली रहती है, इसकी शिकायत करते हुए स्वास्थ्य अधिकारी को पत्र लिखो।
7. आपके मित्र ने राज्य स्तरीय खेल प्रतियोगिता में शानदार प्रदर्शन किया है उसे बधाई देते हुए पत्र लिखो।

#### English

1. Prepare a project on life history and achievements of William Shakespeare ?
2. Write articles on the following topics (150 words):

(i) High-tech devices-blessings or boon.

(ii) Environmental Degradation

(iii) Unplanned and Haphazard .

3. Diary entry is an excellent way to express your feelings. Write diary entry of any five memorable days of your summer vacations.

4. Fill in the blanks with appropriate articles or determiners.

• 1. I am looking forward to being -- grandmother.

• I used my shoe as ---hammer.

• Have you fed -----dogs?

• There are-----children in the garden.

• Who invented-----radio?

• . I am-----oldest in my family

• I prefer -- mountains to the seaside.

• We went to -----same school.

• My brother is going out with-----Chinese girl.

• Have you got-----matches?

• . We met -----nice Asian girls on holiday.

• I think there is ----butter in the fridge

5. Complete the introduction given below to the story The Story Teller by Saki (H.H. Munro), by using 'a' 'an' or 'the'.

The afternoon was hot, and so was (a)..... railway carriage. (b).....next stop was at Templecombe, nearly (c)..... hour ahead. In the carriage were a small girl, (d)..... smaller girl, and a small boy. (e)..... aunt belonging to (f)..... children sat in (g).....corner seat, and in (h) .....further corner seat on (i) .....opposite side, was a man who was a stranger to them, but (j) .....small girls and the small boy were (k)..... ones who filled the compartment. The children chatted on and on to their aunt, like (L).....housefly that refuses to be put off. Most of the aunt's remarks seemed to begin with "Don't", and nearly all of (m) .....children's remark begin with why ?

6. Find out new 100 new words from novels / newspapers with meanings ?

7. Solve any 5 comprehensions

8. Write any three formal letters

## S.S.t

Q. 1 Answer the following questions:

1. Q:- Who invented the steam engine?

2. Q:- Which were the most dynamic industries of Britain in the early 19th century?

3.Q:- Name the ports which grew during the colonial period.

4. Q:- What was the importance of advertisements in expanding the market during the colonial period?

5. Q:- Name any four major centres of cotton textile of India during the colonial period.

6. Q:- What was the impact of the first world war on the British industries?

7. Q:- Why were there clashes between weavers and gomasthas?

8. Q:- What was the role of trade guilds?

9. Q:- Who created the cotton mill? How did it help in improving the production?

10. Q:- Mention some of the problems of the Indian merchant industrialist.

11. Q:- What do you mean by Jobber? What were functions?

12. Q:- Why did the industrialists of Europe prefer hand labour over machines during the 19th century? Explain any three reasons.

13. Q:- Name any two factors on which resources development depends.

14. Q:- Name any two states where mining is responsible for land degradation.

15. Q:- What is contour ploughing?

16. Q:- Which soil is well known for their capacity to hold moisture? Give reason.

17. Q:- What are potential resources? Give two examples.
18. Q:- What do you mean by stock?
19. Q:- Mention any three necessary conditions for the developments of resources.
20. Q:- Which soil is considered ideal for growing cotton? How is the soil formed?
21. Q:- Distinguish between Renewable and Non-renewable resources.
22. Q:- What is meant by national resources and individual resources?
23. Q:- State any two difference between the Alluvial soil and the Red soil.
24. Q:- Explain the importance of conservation of resources.
25. Q:- Define biotic and abiotic resources.
26. Q:- define the federal government.
27. Q:- Name the two subgroups of Tamils in Sri Lanka

Dear students don't waste these days of summer vacations learn properly all subjects and be ready for P.T 1. Stay home, stay safe. Use mask and sanitizer.

\*\*\*\*\* Happy holidays\*\*\*\*\*

**NOTE : Make separate copy of each subject for holidays home work.  
School office will reopen on 25th june. Studies will resume from 1st July 2021.**

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