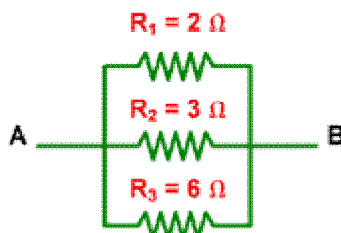


**S.F.D.A.V. Public School, Muzaffarnagar**  
**Holiday Homework 2017-18**  
**Class-X**

**Science**

1. Why is much less heat generated in long electric cables than in filament of bulb?
2. Why is parallel arrangement used in domestic wiring?
3. Why do not two magnetic field lines intersect each other?



4. What is balanced chemical equation? Why should chemical equation be balanced?
5. What does one mean by exothermic and endothermic reactions? Give examples.
6. Balance the following equation
  1.  $\text{SO}_3 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_4$
  2.  $\text{Be}(\text{OH})_2 \rightarrow \text{BeO} + \text{H}_2\text{O}$
  3.  $\text{BaO} + \text{H}_2\text{O} \rightarrow \text{Ba}(\text{OH})_2$
7. Differentiate between an autotroph and a heterotroph?
8. How does aerobic respiration differ from anaerobic respiration?
9. Differentiate between artery and vein?
10. What will happen if mucus is not secreted by the gastric glands?
11. Explain the process of breathing in man?
12. Draw the diagram of alimentary canal of man and label the following parts  
(a) Mouth (b) Oesophagus (c) Stomach (d) Intestine

**Video Link**

<https://www.youtube.com/watch?v=ZeUlh9Cou38>

<https://www.youtube.com/watch?v=ajT9bLMsxWU>

<https://www.youtube.com/watch?v=MUiHRqU4XBc>

**Social Science**

**Political Science**

**Lesson- Power Sharing**

**Very Short Answer Questions- one mark**

1. State two main base of social division in Sri Lanka. (C.B.S.E. 2008)
2. Which type of power sharing is called checks and balances? (C.B.S.E 2011, 2014)
3. Which two languages are generally spoken in Belgium? (C.B.S.E. 2010,11,14)
4. Who elects the community government in Belgium? (C.B.S.E. 2010,15)
5. What is majoritarianism? Name a country which has lost peace due to this. (C.B.S.E. 2013,15)

**Short Answer type questions- three marks**

**Evaluation Based**

6. Mention any four steps which were taken by the Sri Lanka government to achieve majoritarianism. (C.B.S.E. 2010,12,14,15)
7. What is the ethnic composition of Belgium? (C.B.S.E. 2011,14,15)
8. Explain the vertical division of power by giving examples from India. (C.B.S.E. 2013,15)

9. Explain the differences between horizontal power sharing and vertical power sharing. (2010,15)
10. What is the prudential reason behind power sharing? (C.B.S.E. 2014)

### **Long answer type questions- Five marks**

#### **Understanding and application Based**

11. Explain the major forms of power sharing in modern democracies? (2010,15)
12. Compare the Belgium and Sri Lanka system of government. (2012,15)
13. How is the political system in Belgium innovative and different from other countries of the world? (C.B.S.E. 2008,15)

### **Lesson- Federalism**

#### **Very Short Answer Questions- one mark**

14. What are Residuary Powers? (2015)
15. What is Panchayat Samiti?(2008,15)
16. Which local body looks after the basic civic amenities in big cities?(2014,15)
17. What is decentralization? (2015)
18. In which list of the Indian constitution does railways come? (2008,10,15)

#### **Short Answer Type questions- Three marks**

#### **Evaluation Based**

19. Mention any three features of federalism. (2008,9,10,11,12,15)
20. What are the advantages of local government? (2010,14,15)
21. Explain the language policy of Indian federal. (2010,11)
22. How are legislative powers divided between union government and state government? Explain with examples. (2014,15)
23. What is the main difference between an federal form of a government and a unitary one . Explain with an example. (2010,11)

#### **Understanding Based**

#### **Long Answer Type question- 5 Marks**

24. What is a gram Sabha? Describe any four functions of a gram sabha. (2010,15)
25. What is decentralization? What is the importance or need for decentralization? (2015)
26. Difference between the coming together federation and the holding together federations. (2012,15)
27. Which constitutional amendment made the third tier of government in more effective and powerful? Describe any four constitutional steps taken in this amendment to empower local government. (2010,11,12,15)

#### **Video Link**

<https://www.youtube.com/watch?v=EY7Zb5WekkU>

[https://www.youtube.com/watch?v=B2Zkt\\_6iN6o](https://www.youtube.com/watch?v=B2Zkt_6iN6o)

<https://www.youtube.com/watch?v=olzCAO-2gVQ>

<https://www.youtube.com/watch?v=XRG9sZ9WqVA>

<https://www.youtube.com/watch?v=RBmPFDSr6C8>

<https://www.youtube.com/watch?v=RBmPFDSr6C8>

<https://www.youtube.com/watch?v=eikhyT64R90>

[https://www.youtube.com/watch?v=BN\\_qrvMo-fU](https://www.youtube.com/watch?v=BN_qrvMo-fU)

<https://www.youtube.com/watch?v=r08liZhW8wg>

<https://www.youtube.com/watch?v=yeuGVgD8abg>

[https://www.youtube.com/watch?v=lZh\\_b-KJA8l](https://www.youtube.com/watch?v=lZh_b-KJA8l)

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

<https://www.youtube.com/watch?v=O4TSbvSynPI>

[https://www.youtube.com/watch?v=3Tp4P\\_VXh8M](https://www.youtube.com/watch?v=3Tp4P_VXh8M)

<https://www.youtube.com/watch?v=jPob6Zl83SA>

## हिन्दी

प्र01 निम्नलिखित मूल्यपरक प्रश्नों के उत्तर लिखिए। प्रत्येक प्रश्न 4 अंक का है।

1. साना-साना इन्ध जोड़ि पाठ में प्रदूषण के कारण हिमपात में कमी पर चिंता व्यक्त की गई है। प्रदूषण के और कौन से दुष्परिणाम सामने आए हैं? इनमें इसकी रोकथाम के लिए क्या करना चाहिए?
2. देश की सीमा पर बैठे फौजी कई तरह से कठिनाइयों का मुकाबला करते हैं। सैनिकों के जीवन से किन-किन जीवन मूल्यों को अपनाया जा सकता है? चर्चा कीजिए।

प्र02 यातायात के नियमों का उल्लंघन करने वालों के विरुद्ध कड़ी कार्रवाई करने का सुझाव देते हुए यातायात पुलिस आयुक्त को पत्र लिखिए।

5

## **Video Link**

<https://www.youtube.com/watch?v=ydvLiPd01LE>

<https://www.youtube.com/watch?v=4jYfoR1eoY8>

## **English**

Q1- Who is Luigi?

Q2- Why the author was impressed with two boys ?

Q3- Who is Lucia and what disease she had ?

Q4 –Why two brother need to work hard ?

Q5- What quality both brother have ?

Q6- How the boys help the author ?

Q7- How boys earn money ?

Q8- Who is loona bimberton what's her achievement ?

Q9- How Mrs Packletide wants to defeat Loona Bimberton ?

Q10- What arrangement Mrs Packletide makes for her goal .?

Q11- Who helps Mrs Packletide & how she achieves her goal ?

Q12- How the killing of tiger costs Mrs Packletide a lot?

Q13- Were the creature of bog happy with the frog ?

Q14- Do you feel that nightingale is fool ?

Q15- How frog proves that he is superior to nightingale ?

Q16- How the frog earns money ?

Q17- Mirror is truth teller prove ?

Q18 – Who separates the mirror and the wall ?

### Video Link

<https://www.youtube.com/watch?v=1m94RwjVHEQ>

### Maths

- Q1. Using Euclid's division algorithm find which of the following pairs of numbers are co-prime  
(i) 231,396 (ii) 847,2160
- Q2. Show that  $\frac{1}{\sqrt{3}}$  is an irrational number.
- Q3. Find all the zeroes of polynomial  $2x^4 - 5x^3 - 12x^2 + 11x - 2$ . If two of its zeroes are  $2 + \sqrt{3}$  and  $2 - \sqrt{3}$
- Q4. Find the zeroes of the polynomial  $2x^3 + 5x^2 - 9x - 18$  if it is given that the product of its two zeroes is  $-3$
- Q5. Solve the equation graphically  $2x - 3y - 4 = 0$   
 $x - y - 1 = 0$
- Q6. The students of a class are made to stand in rows. If 3 students are extra in a row, there would be 1 row less, if 3 students are less in a row; there would be 2 rows more. Find the number of students in the class.
- Q7. Solve by substitution method.  
$$x - \frac{y}{2} = 3$$
$$\frac{x}{2} - \frac{2y}{3} = \frac{2}{3}$$
- Q8. See the videos related to proof of theorems based on triangle. Solve questions based on each theorem.

Select the correct alternative from the alternatives given against each of the following (1 - 9):

1. In Fig. 4.34,  $DE \parallel BC$  and all lengths are given in cm. The length of AE is  
(A) 2.4 cm (B) 3.2 cm  
(C) 4.8 cm (D) 1.2 cm

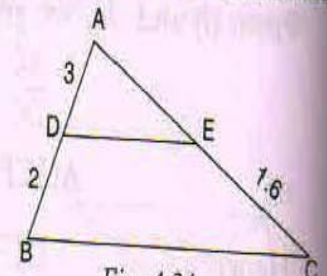


Fig. 4.34.

2. In Fig. 4.35,  $DE \parallel BC$ , then  $x$  is equal to  
(A) 2.5 cm (B) 2 cm  
(C) 1.4 cm (D) 4 cm

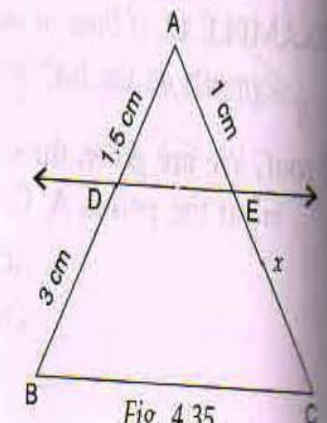


Fig. 4.35.

3. In Fig. 4.36,  $DE \parallel BC$  and all lengths are given in cm. The length of CE is

- (A) 2.9 cm                      (B) 4.25 cm  
(C) 4.65 cm                      (D) 3.25 cm

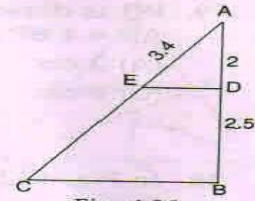


Fig. 4.36.

4. In Fig. 4.37, if  $DE \parallel BC$  then  $x$  equals

- (A) 6 cm                      (B) 7 cm  
(C) 3 cm                      (D) 4 cm

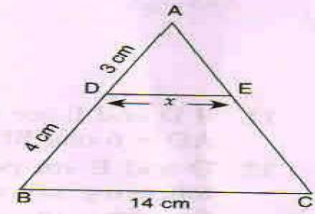


Fig. 4.37.

5. In Fig. 4.38, if  $DE \parallel BC$ , then  $x$  equals

- (A) 6 cm                      (B) 8 cm  
(C) 10 cm                      (D) 12.5 cm

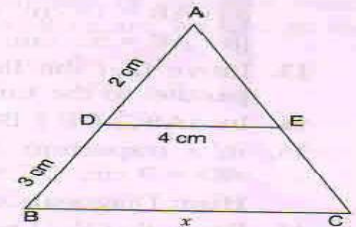


Fig. 4.38.

6. In Fig. 4.39,  $AB \parallel DC$  and  $PQ \parallel AB$ . If the lengths are given in cm, then QC is

- (A) 5.7 cm                      (B) 75 cm  
(C) 7.5 cm                      (D) 0.75 cm

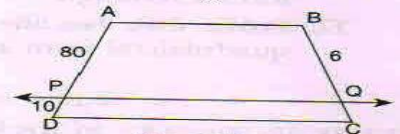


Fig. 4.39.

7. In Fig. 4.40,  $DE \parallel BC$ . If  $AD = 2.4$  cm,  $DB = 3.6$  cm and  $AC = 5$  cm, then AE is

- (A) 3.3 cm                      (B) 2 cm  
(C) 7.5 cm                      (D) 1.728 cm

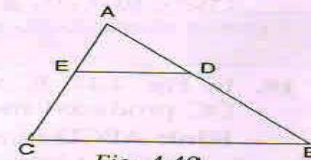


Fig. 4.40.

8. In Fig. 4.41,  $DE \parallel BC$ . If  $AB = 5.6$  cm,  $AD = 1.6$  cm, then  $AE : EC$  is

- (A) 2 : 5                      (B) 5 : 2  
(C) 2 : 7                      (D) 7 : 2

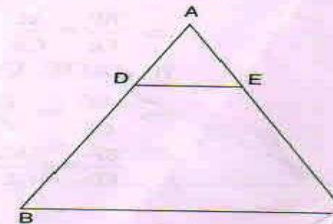


Fig. 4.41.

9. PQ is drawn parallel to the base BC of a  $\Delta ABC$  cutting AB at P and AC at Q. If  $AB = 4 BP$  and  $CQ = 2$  cm then AQ is equal to

- (A) 2 cm                      (B) 4 cm  
(C) 6 cm                      (D) 8 cm

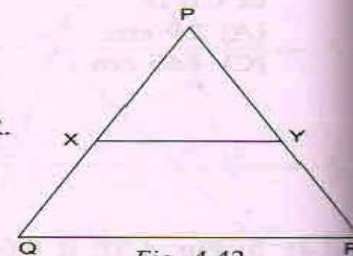


Fig. 4.42.

10. In Fig. 4.42,  $XY \parallel QR$ ,  $\frac{PQ}{XQ} = \frac{7}{3}$  and  $PR = 6.3$  cm. Find YR.

### Video Link

[https://www.youtube.com/watch?v=NhSetCrK\\_5k](https://www.youtube.com/watch?v=NhSetCrK_5k)

<https://www.youtube.com/watch?v=pd331nTd-gE>

<https://www.youtube.com/watch?v=DUIJ2cuf1xM>

<https://www.youtube.com/watch?v=IIV0e2duH0GV>

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