



**DELHI PUBLIC SCHOOL, SAIL TOWNSHIP, RANCHI**  
**SPECIAL ASSIGNMENT 2018-19**  
**CLASS- VIII**

**ENGLISH**

Answer the following questions

1. Why do you think an average person would consider the author an eccentric and such an existence as the author's, a bizarre one?
2. What does the poetess mean by 'oblivion's curse'? Why is the Casuarina tree so close to her heart?
3. 'Can ye measure the grief of the tears I weep?' Explain the grief of Mother India expressed through this line.
4. 'I don't want to retire. I don't need to consider it'. Who is the speaker here? Why do you think the speaker was quite unique?
5. What do you understand by the term 'time's scythe'.
6. Do you think the 'unauthorised guest' was proved to be priceless later on? Explain.
7. Reflect on the different aspects of human emotion as expressed in the stories like 'The Last Leaf' and 'The Postmaster'.
8. When did the king believe that Gulliver was telling the truth? Why hadn't he believed his statement before?
9. Which character of the story 'Gulliver's Travels' attracted you the most? Why?
10. In your area there is a problem of chain snatching in the evening and residents are facing a problem. Local police or councillor has not taken any action. Write a letter to the editor of a newspaper about this in about 120 words.

**PHYSICS**

- 1) Why is friction called a necessary evil?
- 2) A cubical box of mass 4kg with side of 3cm is lying on the ground. Calculate the pressure exerted by the box on the ground.
- 3) What is electroplating?
- 4) Explain how can you locate the pole star with the help of Ursa Major.
- 5) Explain the function of retina and ciliary muscles.
- 6) A child hears an echo in 10 seconds, while whistling in front of a hill at a distance of 2.5km. Find the speed of sound?
- 7) Describe with the help of a diagram an instrument which can be used to detect a charged body.

**CHEMISTRY**

- Q1.** Name the element present in chlorophyll.
- Q2.** What will happen when a copper vessel is exposed to moist air for long? Explain with the help of a word equation.
- Q3.** Calculate the heat released when 5 KG of fuel with calorific value 45,000 KJ / Kg is burnt.
- Q4.** Write short notes on :  
Global warming,  
Smog,  
Acid rain

**Q5.** Explain why plastic containers are preferred for storing food.

**Q6.** Why LPG is considered better fuel than wood.

### **BIOLOGY**

1. What are hormones? Which organs secrete them? What are their characteristics ?
2. Describe the process of sex-determination with the help of a diagram.
3. What is IVF? When does it become necessary? Describe the technique of IVF?
4. Define asexual reproduction. Write two points of difference between budding and binary fission.
5. Name any 4 cell organelles and write the function of each.

### **HISTORY / CIVICS**

#### I. Very short answer type questions

- (a) What was Lord Dalhousie's Doctrine of Lapse?
- (b) Why was the Hindu College established in Benaras?
- (c) Name the Hindu scriptures which were criticized by Periyar?
- (d) Who was A.O.Hume? What role did he play in the history of India?

#### II. Short Answer type questions

- (a) In what way was the battle of Plassey significant for the British?
- (b) How did the East India Company plan to bring an end to the Mughal dynasty?
- (c) Why did Jyotiba Phule dedicate his book 'Gulamgiri' to the American Movement to free slaves?
- (d) What does the part IV of the Indian constitution state? Explain the term Socialist.

#### III. Long Answer type questions

- (a) List the political, social, economic, religious and immediate causes of the revolt of 1857.
- (b) Explain how constitution of India ensures certain rights for person who is arrested or detained.

### **GEOGRAPHY**

1. In which year Ministry of Human Resource Development was created? What is its aim?
2. Why Bangalore has always had a unique advantage for IT Industry?
3. One – third of total production from which Indian industry is exported?
4. What is the main reason for Industrial disaster?
5. Describe the population Pyramid of India, Kenya and Japan.
6. Explain Industrial system with example.
7. Distinguish between Bio gas & Natural Gas.
8. Why are human resources important?

9. Compare Indian & USA Farms.

10. Explain 5 ways to Conserve water.

### MATHEMATICS

1. Find square root of 150.0625 by long division method.
  2. Verify for a rational number  $x$ ,  $y$  and  $z$ :  $x+(y+z) = (x+y) + z$ , for  $x = 3/5$ ,  $y = 1/4$ ,  $z = 5/9$ .
  3. Prove that the sum of the measures of the external angles of any polygon is  $360^\circ$ .
  4. construct a quadrilateral PQRS where  $PQ = 4$  cm,  $QR = 6$  cm,  $RS = 5$  cm,  $PS = 5.5$  cm and  $PR = 7$  cm.
  5. Hasan buys two kinds of cloth materials for school uniforms, shirt material that costs him Rs.50 per metre and trouser material that costs him Rs. 90 per metre. For every 3 meters of the shirt material he buys 2 metres of the trouser material. He sells the materials at 12% and 10% profit respectively. His total sale is Rs.36,600. How much trouser material did he buy?
  6. A table marked at Rs. 15,000 is available for Rs. 14,400. Find the discount given and the discount per cent.
  7. Suppose that the division  $N \div 5$  leaves a remainder of 4, and the division  $N \div 2$  leaves a remainder of 1. What must be the one's digit of  $N$ ?
  8. Factorise : a)  $6 - 2x^2 - x$   
b)  $(2a - b)^2 + 2(2a - b) - 8$   
c)  $x^2 - 2xy + y^2 - x + y$
9. Simplify:  $\left(\frac{1}{3}y^2 - \frac{4}{7}y + 11\right) - \left(\frac{1}{7}y - 3 + 2y^2\right) - \left(\frac{2}{7}y - \frac{2}{3}y^2 + 2\right)$
10. The walls and ceiling of a room are to be plastered. The length, breadth and height of the room are 4.5m, 3m and 350cm, respectively. Find the cost of plastering @ Rs.8 per square metre.

### हिन्दी

1. "ऋतु परिवर्तन का जीवन पर गहरा प्रभाव पड़ता है।" इस कथन की पुष्टि कीजिए।
2. मशीनी युग से बदलू के जीवन में क्या बदलाव आया।
3. पक्षी और बादल द्वारा लाइ गई चिठियाँ को कौन - कौन पद पाते हैं?
4. साइकिल आन्दोलन को चलने में कौन - कौन सी बाधा आई?
5. बाज़ के लिए लहरों ने गीत क्यों गया होगा?
6. अधोलिखित विषयों से संबंधित प्रश्न की पुनरावृत्ति कीजिए :-  
क्रिया, लिंग, क्रिया विशेषण।
7. "भारत छोड़ो" प्रस्ताव किसका था?
8. "भारत की खोज" किसकी रचना है?