



# SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi

## ASSIGNMENT – 4 (2018-19)

### CLASS – IX

Name : \_\_\_\_\_ UID: \_\_\_\_\_ Std: IX \_\_\_\_\_

#### Subject: English

1. Read the passage carefully

US President Barack Obama challenged the world on Tuesday to act swiftly to fight global warming but offered no new proposals that could jump start stalled talks on a UN climate pact. Speaking shortly after Obama at a special UN summit on global warming, Chinese President Hu Jintao pledged to reduce the carbon intensity of his country's economic growth. In his speech, President Obama said time was running out to address the problem. 'Our generation's response to this challenge will be judged by history, for if we fail to meet it boldly, swiftly and together we risk consigning future generations to an irreversible catastrophe', he said 'The time we have to reverse this tide is running out.' Activists hoped the United States and China would inject momentum, 2-1/9 months before 190 nations gather in Copenhagen aiming to complete a deal to slow climate change. "Failure to reach broad agreement in Copenhagen would be morally inexcusable, economically shortsighted and politically unwise." Ban said.

Read the questions given below and choose the correct option:

[5]

- a) President Obama's speech on Global warming.
- i) gave a new boost to the movement
  - ii) gave a new vision to the world
  - iii) did not give a start to the movement.
- b) According to the report, China
- i) is a major contributor to global warming because of the economic growth?
  - ii) has already contained the carbon intensity.
  - iii) does not add to the problem of global warming.
  - iv) does not require to act in this direction.
- c) According to the speakers
- i) There is no need to panic as there is sufficient time to act.
  - ii) The situation has gone out of control.
  - iii) There is an immediate need of swift action to slow down the climate changes.
  - iv) The future generations will act swiftly.
- d) According to the report:
- i) The countries should reach a definite agreement on the issue of global warming.
  - ii) The countries still can negotiate and reach a definite agreement as the failure of the summit will not make any difference.
  - iii) It is important for the future generations to act now as it is their life which is at stake.
  - iv) Failure to reach any agreement will not affect the future generations.

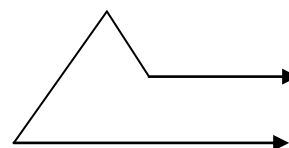
- e) Which of the following words in the passage stands for 'stopped'?
- i) reversible ii) stalled  
iii) irreversible iv) swiftly
2. Write an article in a minimum of 150 words on "Stress on Teenagers". You are Spandan or Spandana of Class IX, Senior Secondary School. [6]
3. Complete the following paragraph by choosing the correct option. [4]  
Symphony Public School organized (a) \_\_\_\_ (a, an, the, same) workshop (b) \_\_\_\_ (on, with, by, in) drawing painting recently. Representatives (c) \_\_\_\_ (from, with, by, in) the institute (d) \_\_\_\_ (gave, give, has given, had given) presentations (e) \_\_\_\_ (in, on with, by) various courses offered and tips for better painting. (f) \_\_\_\_ (many, more, some, all) students from neighbouring schools attended (g) \_\_\_\_ (the, a, an, that) workshop and (h) \_\_\_\_ (learnt, has learnt, had learnt, learn) useful tips.
4. Reference to context  
"Rolled round in the earth's diurnal course  
With rocks and stones and trees"  
a) Name the poem and the poet. [1]  
b) Who has been referred in the above lines? [1]  
c) Which figure of speech is used in the first line? [1]
5. Why was Sue not willing to get well even she was not suffering from any life taking disease? [3]
6. Imagine yourself as the narrator of 'The bond of love' and write the character sketch of Bruno in 100-120 words. [5]

**Subject : Hindi**

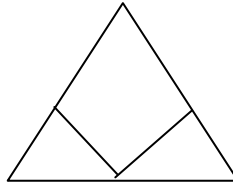
1. 'दो बैलों की कथा' के माध्यम से कौन-कौन से नीति-विषयक मूल्य उभर कर आए हैं? 2
2. 'ल्हासा की ओर' यात्रा-वृत्तांत के आधार पर बताइए कि उस समय तिब्बती समाज कैसा था? 2
3. लेखक लङ्कोर के मार्ग में अपने साथियों से किस कारण पिछड़ गया? 2
4. कबीर के अनुसार इस संसार में सच्चा संत कौन कहलाता है? 2
5. बंद द्वार की साँकल खोलने के लिए ललदयद ने क्या उपाय सुझाया है? 2
6. अर्थ की दृष्टि से वाक्य कितने प्रकार के होते हैं? उदाहरण सहित लिखिए। 4
7. विग्रह कर समास का नाम लिखें – 2  
क) गुरुदक्षिणा ख) सप्तपदी ग) स्वर्गप्राप्त घ) महात्मा
8. आपका टेलीफोन खराब है। इसकी शिकायत करते हुए राँची टेलीफोन निगम महा प्रबंधक को पत्र लिखिए। 4
9. 'स्वस्थ भारत अभियान' अथवा विमुद्रीकरण (De-Monetisation) पर 200-250 शब्दों में निबंध लिखें। 5

**Subject : Mathematics**

1. Find the value of  $(16)^{0.16} \times (16)^{0.09}$  [2]
2. Factorise:  $5(3x + y)^2 + 6(3x + y) - 8$ . [2]
3. Find the value of a and b, if  $\frac{7+3\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}} = a + \sqrt{5} b$ . [3]
4. If AB || CD, then find the value of x. [3]



- If the polynomial  $(2x^3 + kx^2 + 3x - 5)$  and  $(x^3 + x^2 - 2x + 2k)$  leave the same remainder, when divided by  $(x - 3)$ , then find the value of  $k$ . [3]
- If the bisectors of the base angles of a triangle enclose an angle of  $135^\circ$ , then prove that the triangle is a right angled triangle. [4]
- Show that the sum of three altitudes of a triangle is less than the sum of a three sides of the triangle. [4]
- In  $\triangle ABC$ ,  $D$  is the midpoint of  $BC$ . If  $DL$  perpendicular to  $AB$  and  $DM$  perpendicular to  $AC$  such that  $DL = DM$ , prove that  $AB = AC$ . [4]



### Subject : Science

#### Physics

- Derive equation for position- velocity relation graphically. [2]
- Anand leaves his house at 8.30 am for his school. The school is 2 km away and classes start at 9:00 am. If he walks at a speed of 3 km/h for the first kilometer, at what speed should he go walk the second kilometre to reach just in time? [2]
- Differentiate between uniform linear and uniform circular motion. [5]
  - Why uniform circular motion also called accelerated motion?
- A circular track has a circumference of 3140 m with  $AB$  as one of its diameter. A scooterist moves from  $A$  to  $B$  along the circular path with a uniform speed of 10 m/s. Find
  - distance covered by the scooterist,
  - displacement of the scooterist, and
  - time taken by the scooterist in reaching from  $A$  to  $B$ .

#### Chemistry

- Distinguish solids liquids and gases in a tabular form under the following characteristics:
  - Rigidity
  - Compressibility
  - Inter-particle forces of attraction
  - Inter-particle spaces
 [2]
- A spoonful of sugar is added to a beaker containing 100ml of water and stirred for a while. State any two observations that you will make. Account your observation. [2]
- Draw a neat and labelled diagram of the apparatus used to separate component of blue black ink. Name the process and principle involved. [2]
- Identify the physical and chemical changes from the following: [2]
  - Burning of magnesium in air
  - Tarnishing of silver spoon
  - Electrolysis of water
  - Sublimation of iodine.

#### Biology

- Classify the following based on number of chambers in their heart: Frog, Bat, Whale, Rohu, Flying lizard, *Scoliodon*. [3]
- Which organism is more complex and evolved among Bacteria, Mushroom and Mango tree, Give reason. [2]
- Why whales are not grouped in the fishes? Give any two reasons. [2]
- How are pteridophytes different from the phanerogams? [1]

## Subject : Social Science

### History

1. In the context of Russia, what was 'Kolkhoz'? [1]
2. Explain the conditions that led to the rise of the Jacobins. [3]
3. State any three reasons which led to the civil war between the Bolsheviks and the non-Bolshevik army. [3]

### Civics

1. Democracy improves the quality of decision making. Explain. [3]
2. The Constitution of India reflects the view of various social groups and political parties. Discuss by giving suitable arguments. [3]

### Geography

1. The sun rises two hours earlier in Arunachal Pradesh as compared to Gujarat in the west but the watches show the same time? How does this happen? [3]
2. Distinguish between the Western Ghats and the Eastern Ghats. [3]

### Economics

1. Why are farm labourers like Dala and Ramkali poor? [3]
2. Is it important to increase the area under irrigation? Why? [3]

## Subject : Sanskrit

1. गद्यांशं पठित्वा प्रश्नान् उत्तरत। [6]

ये जनाः दृढ प्रतिज्ञाः भवन्ति तेषां कृते तेषां व्रतमेव सर्वं प्रमुखं भवति । संसारे ईदृशाः जनाः भूतवन्तः ये जीवनस्य अंतिमेक्षणे अपि सत्यस्य आश्रयं नात्यजन्। अनेकाषु विपत्तिषु अपि हरिश्चंद्रः सत्यस्या श्रयं नात्यजन्। महाराणा प्रतापः आजीवन वने-वनेभ्रमत्। आधुनिके काले महर्षि दयानंदो अपि सत्यस्य पालने वेद प्रचारेव स्व जीवनं बलिदानं अकरोत्। भारते अनेके ईदृशाः महापुरुषाः अजायन्तये स्वजन्मना इमां भूमिं पवित्रा अकुर्वन्। अद्यापि तेषां चरण चिन्हं मानवेभ्यः सत्याचरणं प्रति प्रेरयति।

  - 1) एकपदेन उत्तरत-  
क) कः आजीवनं वनात्वनम् अभ्रमत्? ख) कः नृपः सत्यस्य आश्रयं नात्यजत्?
  - 2) पूर्ण वाक्येन उत्तरत-  
क) अद्यापि किं मानवेभ्यः सत्याचरणं प्रति प्रेरयति?
  - 3) अनुच्छेदस्य उचितम् शीर्षकं लिखत।
2. अनुवादं कुरुत। [8]

क) राम पिता से डरता है।	ख) तुम सब गुरुओं को प्रणाम करो।
ग) राम विद्यालय से आता है।	घ) राम रावण के लिए काफी है।
ड) बच्चा बंदर से डरता है ।	च) तुम दोनों कहां जा रहे हो?
छ) वह विद्यालय जाए।	ज) घर के बाहर लता खेल रही है।
3. निर्देशानुसार लिखत। [6]

क) वारि - तृतीया वि०	ख) तत् (पु०) - चतुर्थी वि०
ग) किम् (स्त्री) - षष्ठी वि०	घ) अस्मद् - तृतीया वि०
4. 'लघु वाटिका' इति विषये संस्कृते पञ्च वाक्यानि लिखत। [5]

मञ्जूषाः --- बालकाः, पुष्पाणि, छात्राः, क्रीडन्ति, वानरः, बलहीनाः, आतपः, लभन्ते, कुर्वन्ति