



SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi

ASSIGNMENT – 3 (2018-19)

Name : _____ UID: _____ Std: X _____

Subject : English

- Read the passages given below and answer the questions that follow by choosing the correct options.
 - All in a hot and copper sky, The bloody Sun, at noon,
Right up above the mast did stand,
No bigger than the Moon.
 - How is the Sun different now from the Sun earlier?
 - Why are the sailors unable to move at this moment?
 - Name a poetic device used in the above lines
 - CAESAR: And you are come in very happy time, To bear my greeting to the senators And tell them that I will not come to-day:
CALPURNIA: Say he is sick.
 - Whom does Caesar greet in the first line?
 - What message does Caesar want to send to the senators?
 - What makes Caesar change his mind?
- Answer the following questions.
 - Why did John excitedly allow his wife to go back to her grandmother?
 - What makes the author refrain from killing the snake?
 - Why did Patol Babu walk away before he could be paid for his role?
 - The crowd in Julius Caesar does not understand the speech of Brutus. Comment.
- Bring out the use of the supernatural in The Rime of the Ancient Mariner.

Subject : Hindi

- लेखिका की उनके पिता से वैचारिक मतभेद के क्या कारण थे?
- लेखिका के व्यक्तित्व पर किनका - किनका प्रभाव देखने को मिलता है?
- इस गोत्मकथ्य में लेखिका के पिता ने रसोई को 'भटियारखाना' क्यों कहा है?
- फादर को याद करना एक उदास शांत संगीत सुनने सुनने जैसा है। गोशय स्पष्ट करें
- फादर बुल्के ने संन्यासी की परंपरागत छवि से लेग एक नई छवि प्रस्तुत की है, कैसे?
- लेखक ने फादर बुल्के को 'मानवीय करुणा की दिव्य चमक' क्यों कहा है?
- लक्ष्मण ने वीर योद्धा की क्या- क्या विशेषताएँ बताईं?

length 18 cm. At what distance from the mirror should the screen be placed, so that a sharp focused image can be obtained? Find the size and the nature of the image.

- A spherical mirror produces an image of magnification -1.0 on a screen placed at a distance of 30 cm from the pole of the mirror.
 - Write the type of mirror in this case.
 - What is the focal length of the mirror?
 - What is the nature of the image formed?
 - Draw the ray diagram to show the image formation in this case.

Subject : Chemistry

Make a project on topic: "Cleansing action of Soap"

Subject: Biology

- What are homologous organs? Give an example. Is it necessary that homologous structures always have a common ancestor?
- Explain the processes of fertilization in flowers. Name the parts of the flower that develop after fertilization into seed and fruit.
- In the following crosses write the characteristics of the progeny
 - RRYY x RrYy
 - RrYy x RrYy
- Suggest three contraceptive methods for birth control.

Subject : History/Civics.

- What were the drawbacks of manuscripts?
- Who was Johann Gutenberg? What was his role in developing in printing technology?
- State the ideology of any four political parties. Also mention the symbols of these parties.

Subject : Geography

- Describe how the industries pollute the environment and steps to be taken to minimize environmental degradation.

- 8 'साहस और शक्ति के साथ विनम्रता ही तो बेहतर है।' इस कथन पर अपने विचार व्यक्त कीजिए।
- 9 इहाँ कुम्हड़बतिया कोउ नाहीं।जे तरजनी देखि मर जाहीं।।
देखि कुठार सरासन बाना।मैं कछु कहा सति भिमाना।।
प्रस्तुत काव्यांश के भाव स्पष्ट करें
- 10 पाठ के आधार पर 'बुलसीदास' के भाषा सौन्दर्य का उल्लेख करें।

Subject : Sanskrit

1. सन्धि/सन्धिच्छेदं कुरुत ।
- (I) द्वौ + अपि (II) कृष्णः + तदा (III) तत् + मनसि
(IV) तत् + श्रुत्वा (V) एषः + नमति (VI) मृगः + अपि
(VII) नाववतु (VIII) पर्वताविव
2. समास/समासविग्रहं कृत्वा लिखत ।
- (I) विघ्नस्य अभावः (II) यूथस्य पश्चात्
(III) सर्वं ददाति इति (IV) गुरोः समीपम्
(V) शिशिरः च वसन्तः च
(VI) सर्पश्च नकुलश्च अनयोः समाहारः
(VII) वीराःपुरुषाः अस्मिन् सः
(VIII) यथासमयं
3. लकारं दृष्ट्वा वाक्य संशोधनं कुरुत ।
- (I) श्वः सोमवासरः भवति ।
(II) तिस्रः बालिकाः अस्ति ।
(III) तौ पुरुषौ गच्छथः ।
(IV) अहं तव सुतं पश्यतः।
4. पत्र-लेखनस्य अभ्यासं कुरुत ।
5. चित्र-वर्णनस्य अभ्यासं कुरुत ।

Subject – Mathematics

1. Find the 20th term of the AP whose 7th term is 24 less than the 11th term, first term being 12.
2. Find whether 55 is a term of the AP 7, 10,13..... or not. If yes find which term it is.
3. Which term of the AP 53, 48,43.....is the first negative term?

4. In an AP, if $S_n = n(4n+1)$, then find the AP.
5. The lower window of a house is at a height of 2m above the ground and its upper window is 4m vertically above the lower window. At certain instant the angles of elevation of a balloon from these windows are observed to be 60° and 30° respectively. Find the height of the balloon above the ground.
6. If PQR is the tangent to a circle at Q whose centre is O, AB is a chord parallel to PR and $\angle BQR=70^\circ$, find $\angle AQB$.
7. From an external point P, two tangents PA and PB are drawn to a circle with centre O. At one point E on the circle tangent is drawn which intersects PA and PB at C and D respectively. If $PA=10\text{cm}$, find the perimeter of the triangle PCD.
8. Floor of a room is of dimensions 5m x 4m and it is covered with circular tiles of diameters 50cm each. Find area of floor that remains uncovered with tiles.

Subject : Physics

1. One half of a convex lens is covered with a black paper. Will this lens produce a complete image? Show.
2. What is the magnification of the images formed by plane mirrors and why?
3. Why does a ray of light passing through the centre of curvature of a concave mirror after reflection is reflected back along the same path?
4. A thin converging lens forms a (i) real magnified image (ii) virtual magnified image of an object placed in front of it.
- (a) Write the positions of the objects in each case.
(b) Draw labelled diagrams to show the image formation in each case.
(c) How will the following be affected on cutting this lens into two halves along the principal axis?
(i) focal length (ii) intensity of the image formed by half lens.
5. For the given data showing object distance and focal length of three concave mirrors, answer the following questions:
- | S.No. | Object distance (cm) | Focal length (cm) |
|-------|----------------------|-------------------|
| 1. | 30 | 20 |
| 2. | 10 | 15 |
| 3. | 20 | 10 |
- a) Out of the three, in which case the mirror will form the image having same size as the object?
b) Which mirror is being used as a make-up mirror?
c) Draw the ray diagrams for part (a) and part (b).
6. An object of size 7 cm is placed at 27 cm in front of a concave mirror of focal