

DELHI PUBLIC SCHOOL

GAYA

CLASS – X ASSIGNMENT-III FOR WINTER VACATION 2017–18

Instruction: – Kindly do your assignment work in assignment copies of the subjects.

Subject : English

1. Write a review of a novel that you read during the winter vacation.
2. Write down five arguments that Antony uses to mobilize the crowd towards his side.
3. Write the character sketch of Anne Frank in about 200 words.

Subject : Hindi

1. मोमबत्ती बनाना / पापड़ बनाना / लिफाफे बनाना आदि लघु उद्योगों के विषय में जानकारी प्राप्त कर लिखिए।
2. 'जीवन संघर्षमय है, इससे घबराकर थमना नहीं चाहिए।' विषय पर एक अनुच्छेद लिखिए।
3. दस लोकोक्तियों का सचित्र प्रस्तुतिकरण कीजिए।
4. अपने किसी पर्यटन अनुभव के बारे में अपनी स्मृति के आधार पर लिखिए।

Subject : Mathematics

1. An aeroplane at an altitude of 200 m observes the angles of depression of opposite points on the two banks of a river to be 45° and 60° . Find the width of the river.
2. Metallic balls of radii 6 cm, 8 cm and 10 cm, respectively are melted and recasted into a single solid sphere. Find the surface area of solid sphere formed.
3. A circus artist is climbing a 20 m long rope, which is tightly stretched and tied from the top of a vertical pole to the ground. Find the height of the pole if the angle made by the rope with the ground level is 30° .

Subject : Science

PHYSICS

1. What is dispersion of white light? What is the cause of such dispersions? Draw a diagram to show the dispersion of white light by a glass prism.
2. Draw a ray diagram to show refraction through a rectangular glass slab.
3. Draw ray diagram each showing
 - i) myopic eye and
 - ii) hypermetropic eye .
4. The far points of a myopic person is 80 cm in front of the eye. What is the nature and power of the lens required to correct the problem?
5. Why does the sun appear reddish early in the morning?
6. The near point of a hypermetropiceye is at 75 cm from the eye. What is the power of the lens required to enable him to read clearly a book help at 25 cm from the eye?
7. The power of a lens is 4D. Find focal length of the lens and state its nature.

CHEMISTRY

1. Write the chemical test to distinguish between ethanol and ethanoic acid.
2. A compound X is formed by the reaction of carboxylic acid $C_2H_4O_2$ and an alcohol in the presence of conc. H_2SO_4 . This alcohol on treating with alkaline $KMnO_4$ gives the same carboxylic acid used in the above reaction. Give the name of the alcohol. Write the reaction involved in the formation of X.
3. Distinguish between esterification and saponification reactions of organic compound with the help of the chemical equation for each. Write one use of
 - (i) esters and
 - (ii) saponification process.
4. How would you bring about the following conversions? Name the process and write the reaction involved.
 - a) ethanol to ethane
 - b) propanol to propanoic acid

BIOLOGY

1. Draw a labelled diagram of longitudinal section of flower.
2. Explain double fertilization with diagram.
3. What are the different methods of contraception?
4. What are the changes seen in boys and girls at the time of puberty?
5. What are the functions performed by testis and ovary in human?

Subject : Social Science

1. Who was Paul Bernard? What were his views regarding the development of colonies?
2. What was the main motive of the French to develop the infrastructural projects in Vietnam? Explain how far did they succeed in their mission.
3. What is the importance of the manufacturing industries?
4. Explain any three human factors for the localization of an industry in a particular area.
5. (i) What is a political party? Give two examples.
(ii) Name the three components of political parties.
(iii) What is a partisan?
6. "Parties shape public opinion." Justify by giving examples.
7. How do we participate in the market?
8. Explain "Right to choose" as consumer's right.

Subject : Sanskrit

1. शीतावकाशे उष्णप्रदेशे भ्रमणाय गच्छत ततः आगत्य स्वस्मृत्याधारेण दश वाक्यानि संस्कृते रचयत ।
2. "तिरुक्कुरल् – सूक्ति सौरभम्" इति पाठस्य संपूर्ण सूक्तयः स्मरत, अर्थं लिखत आगत्य कक्षायां श्रावयत च ।
3. "राष्ट्रं संरक्ष्यमेव हि" इति पाठं धृत्वा अस्माकं देशः भारतवर्षः उपरि एकं लेखं लिखत ।
व्याकरणे –
4. निम्नाङ्कित समयस्य घटिका चित्र निर्माणं कृत्वा दर्शय ।
समयः— 10:40, 1:15, 2:25, 3:45, 9:30, 12:1

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