

DELHI PUBLIC SCHOOL

GAYA

CLASS – X ASSIGNMENT-1 FOR SUMMER VACATION 2018–19

SUBJECT – ENGLISH

1. ‘When you live for a strong purpose, then hard work isn’t an option. It is a necessity.’ Both Nicola and Jacopo were hard working and uncomplaining. You too realized the importance of hard work after reading the story. With reference to ‘The Two Gentlemen of Verona’ write your views in 200 words on the topic ‘Importance of Hard Work’.
2. Write a story in about 200 words based on the inputs given below:
Uday’s dream – do something brave – win recognition far and wide – be famous in the world – one day, he saw this opportunity when
3. Imagine you are a journalist who has interviewed an activist fighting for equal rights for education for all. Write this interview in about 150 words.
4. How did the life of Anne Frank change after coming to the secret annex?
5. In the following passage, one word has been omitted in each line. Write the missing word along with the word that comes before and the word that comes after it in your copy against the correct blank.

| | Before | Missing | After |
|--|---------------|----------------|--------------|
| a. Imagine there a bank that credits your | _____ | _____ | _____ |
| b. account morning with a lot of money. | _____ | _____ | _____ |
| c. It carries over no balance day to day. | _____ | _____ | _____ |
| d. Every evening bank deletes whatever | _____ | _____ | _____ |
| e. part the balance you failed to use during | _____ | _____ | _____ |
| f. the day. If this true, what would you | _____ | _____ | _____ |
| g. do? Draw every penny, of course! Each | _____ | _____ | _____ |
| h. of us has such bank, its name is Time Bank. | _____ | _____ | _____ |

SUBJECT – HINDI

1. नेताजी सुभाषचन्द्र बोस के व्यक्तित्व एवं कृतित्व का सचित्र वर्णन कीजिए।
2. टी0वी0 पर दिखाए जाने वाले विज्ञापनों में से आपको सबसे अच्छा लगने वाले किसी एक विज्ञापन के बारे में कारण सहित लिखिए।
3. अपने मित्रों के जन्मदिन के अवसर पर उन्हें पौधा उपहार में देने से क्या – क्या लाभ हो सकते हैं? पाँच वाक्यों में लिखिए।
4. आपके विद्यालय में मनाए जाने वाले सांस्कृतिक समारोह में मंच के पीछे काम करने वाले सहयोगियों की भूमिका पर 80 – 100 शब्दों में एक अनुच्छेद लिखिए।
5. सूर्योदय एवं सूर्यास्त के दृश्य को देखिए एवं उसके अनुभव को 50 – 60 शब्दों में लिखिए।

SUBJECT – MATHEMATICS

1. Show that one and only one out of $n, n + 2, n + 4$ is divisible by 3, where n is any positive integer.
2. If one zero of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of a .
3. What real number should be subtracted from the polynomial $(3x^3 + 10x^2 + 14x + 9)$ so that $3x - 2$ divides it exactly?
4. If two zeros of the polynomial $f(x) = x^4 - 6x^3 - 26x^2 + 138x - 35$ are $(2 + \sqrt{3})$ and $(2 - \sqrt{3})$, find other zeros.

5. Solve the following system of linear equation graphically.
 $4x - 5y - 20 = 0$ and $3x + 5y - 15 = 0$.
 Determine the vertices of the triangle formed by the lines representing the above equations and the $y - axis$.
6. If α, β, γ are the zeros of the polynomial $p(x) = 6x^3 + 3x^2 - 5x + 1$, find the value of $\left(\frac{1}{\alpha} + \frac{1}{\beta} + \frac{1}{\gamma}\right)$

SUBJECT – SCIENCE

Physics

- (a) How does the resistance of a wire change when?
 - Its length is tripled?
 - Its radius is tripled?
 - Its material is changed to one whose resistivity is three times?
- (b) List two reasons why nichrome is used for making heating element of electrical appliances.
- Mention one reason why tungsten is used for making filament of electric lamp.
- List two characteristics of the material to be used in fuse wire. Name the material it is made of. A fuse is always connected in series in an electric circuit? Justify this statement giving reason
- A circuit has a line of 5 A. How many lamps of rating 40 W; 220 V can simultaneously run on this line safely?

Chemistry

- A silvery-white metal X taken in the form of ribbon, when ignited, burns in air with a dazzling white flame to form a white powder Y. When water is added to powder Y, it dissolves partially to form another substance Z.
 - What could metal X be?
 - What is powder Y?
 - With which substance metal X combines to form powder Y?
 - What is substance Z? Name one domestic use of substance Z.
 - Write a balanced chemical equation of the reaction which takes place when metal X burns in air to form powder Y.
- A colourless lead salt, when heated, produces a yellow residue and brown fumes.
 - Name the lead salt.
 - Name the brown fumes.
 - Write a chemical equation of the reaction involved.
- When hydrogen burns in oxygen, water is formed and when water is electrolyzed, then hydrogen and oxygen are produced. What type of reaction takes place :
 - in the first case?
 - in the second case?
- Explain the following with two examples each :
 - Precipitation reaction
 - Redox reaction
 - Oxidant
 - Exothermic reaction
 - Double displacement reaction
- Define corrosion and rancidity. How can we prevent rusting?

Biology

1. Why molecular movement is necessary in living organisms?
2. What are saprotrophic, parasitic and holozoic nutrition? Give example of each type.
3. What are thylakoids? Where are they found?
4. Differentiate between Photosynthesis and Respiration.
5. What is mechanical and enzymatic digestion?
6. What is 'succus entericus'? Mention its role.
7. What is Glycolysis and Kreb's cycle?
8. Explain the function of Alveoli with diagram.

SUBJECT – SOCIAL SCIENCE

History/Civics

1. Give two reasons why the population of London expanded from the middle of the eighteenth century.
2. Explain what is meant by the Haussmanisation of Paris.
3. Why well-off Landoners supported the need to build housing for the poor in the nineteenth century?
4. What are the different forms of power sharing in modern democracies?
5. "Power is shared between different social groups." Comment on this statement with the help of an example.

Geography

1. Collect pictures of different settlement found in and around Gaya city. Also state their features.
2. Discuss – 'Dams as the temples for India' – Focus on Bhakra Nangal dam.
3. Tropical evergreen forest are the hub of natural benefits/endowments. Prepare a note.

Economics

1. Distinguish between economic growth and economic development.
2. Elaborate the features of developmental goals.
3. Define sustainable development. Give its main features.

SUBJECT – SANSKRIT

1. भवान् स्व परिजनेन सह ग्रीष्मावकासावसरे भ्रमणाय इतस्ततः गच्छत ततः आगत्य भ्रमणयात्रायाः उपरियात्रावृतान्तं रचयत ।
2. ग्रीष्मावकाशावसरे वृक्षस्य का उपयोगिता, कानिपर्वाणि भवन्ति, आम्र जम्बुफलस्य रसगुणगानं एतत् सर्वं एकस्यां पत्रिकायां संकलनं कुरुत ।
3. व्याकरणे –
पत्राणि पूरयत –
पत्र संख्या – 1, 2, 3, 4, 5 – पृ० सं० 97
4. चित्राणि रचयत, वर्णन च कुरुत
चित्र संख्या 1, 2, 3, 4, 5 – पृ० सं० – 128
5. शब्दरूपाणि स्मरत ।
इकारान्त – पु० – कवि, भूपति
उकारान्तु पु० – साधु
ऋकारान्तु पु – पितृ, दातृ, भ्रातृ
सर्वनाम – इदम् शब्द – पु०, स्त्री०, नपु०
6. वाङ्मयं तपः इति पाठस्य संपूर्णं श्लोकान् स्मरत, अर्थं लिखत् कक्षायां आगत्य श्रावयत च ।