



DELHI PUBLIC SCHOOL
VISAKHAPATNAM STEEL PLANT
ASSIGNMENT NOVEMBER – DECEMBER 2020

Class: X

Subject: ENGLISH

1. Read the passage given below and answer the questions that follow: (8 Marks)

1. One day Gandhiji and Vallabhbhai Patel were talking in the Yeravda jail when Gandhiji remarked, “At times even a dead snake can be of use.” And he related the following story to illustrate his point: Once a snake entered the house of an old woman. The old woman was frightened and cried out for help. Hearing her, the neighbours rushed up and killed the snake. Then they returned to their homes. Instead of throwing the dead snake far away, the old woman flung it onto her roof.

2. Sometime later a kite flying overhead spotted the dead snake. In its beak, the kite had a pearl necklace which it had picked up from somewhere. It dropped the necklace and flew away with the dead snake. When the old woman saw a bright, shining object on her roof she pulled it down with a pole. Finding that it was a pearl necklace she danced with joy!

3. One day a bania found a snake in his house. He could not find anyone to kill it for him and had not the courage to kill it himself. Besides, he hated killing any living creature. So, he covered the snake with a pot and let it there.

4. As luck would have it, that night some thieves broke into the bania’s house. They entered the kitchen and saw the overturned pot. “Ah”, they thought, “the bania has hidden something valuable here.” As they lifted the pot, the snake struck. Having come with the object of stealing, they barely left with their lives.

5. Once he came out of jail, Gandhiji went from city to city, village to village collecting funds for the Charkha Sangh. During one of his tours, he addressed a meeting in Orissa.

6. After his speech a poor old woman got up. She was bent with age, her hair was grey and her clothes were in tatters. The volunteers tried to stop her, but she fought her way to the place where Gandhiji was sitting. “I must see him,” she insisted and going up to Gandhiji touched his feet.

7. Then from the folds of her sari, she brought out a copper coin and placed it at his feet. Gandhiji picked up the copper coin and put it away carefully.

8. The Charkha Sangh funds were under the charge of Jamnalal Bajaj. He asked Gandhi for the coin but Gandhi refused.

1.1 On the basis of your reading of the passage given above, answer the following questions

(a) On seeing the _____ the thieves ran for their life from the bania’s house.

(i) necklace (ii) dead snake (iii) woman (iv) snake

(b) Gandhiji went to Orissa for

(i) a meeting (ii) collecting funds (iii) the old woman (iv) volunteer.

(c) was incharge of the Charkha Sangh funds.

(i) Jamnalal Bajaj (ii) Gandhiji (iii) Vallabhbhai Patel (iv) Volunteers

(d) The kite dropped:

(i) a snake (ii) a pot (iii) a pearl necklace (iv) a copper coin

(e) The bania could not kill the snake because:

(i) he was kind to living creature (ii) he could not find anyone (iii) he had no courage to kill it himself (iv) all of these

(f) The thieves thought the bania had hidden something valuable:

(i) under a stone (ii) in a box (iii) under a pot (iv) in a hole

(g) The volunteers tried to stop the poor woman from going to _____

(i) Gandhiji (ii) village (iii) patel (iv) Yeravada jail

(h) When the poor woman came to Gandhiji, Gandhiji touched her feet. (True/False)

II. Fill in the gaps by choosing the most appropriate words from the options given below.

Today we (a) _____ all familiar with the use of fingerprinting. It is a very important and is fighting crime. (b) _____ many people do not know that it was in India (c) _____ fingerprints (d) _____ first used for catching criminals. Fingerprints can be found on practically any solid surface including the human body.

(a) (i) are (ii) is (iii) were (iv) was

(b) (i) Since (ii) But (iii) And (iv) Though

(c) (i) which (ii) who (iii) that (iv) where

(d) (i) was (ii) is (iii) are (iv) were

III. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction against each line of the passage.

Essex Farms is the famous resort. e.g. the a

It is located in Aurobindo Marg. (a)

It has the bowling alley and lots (b)

with games for children to play. (c)

The multi cuisine restaurant add for the charm. (d)

This resort gives you a choice of air conditioned rooms.

IV. Read the extracts given below and answer the questions that follow:

1) Did you finish your homework. Amanda?

Did you tidy your room. Amanda?

I thought I told you to clean your shoes Amanda?

(a) These lines are spoken by:

(i) Amanda's teacher (ii) Amanda's mother (iii) Amanda's grandmother (iv) Amanda's father

(b) Amanda is nagged for not:

(i) cleaning her room (ii) finishing her homework (iii) cleaning her shoes (iv) All of these

(c) The poem 'Amanda' is written by _____

(d) Amanda is fed up of being scolded by her _____

2) Never, never and never again shall it be that this beautiful Land will again experience the oppression of one another. The Sun shall never set on so glorious a human achievement. Let freedom reign. God bless Africa!

(a) These lines are spoken by:

(i) Nelson Mandela (ii) Mahatma Gandhi (iii) Mr. de Klerk (iv) Thabo Mbeki

(b) The speaker refers to the oppression of the:

(i) whites by the blacks (ii) blacks by the whites (iii) poor by the rich (iv) employees by the employers

(c) "The sun shall never set" here means _____. (d) The speaker prayed to god for _____.

V. WRITING TASKS

1. You are Nitin/Vina, resident of 34, Krishna Nagar, New Delhi. Last week, you came across an advertisement pertaining to 'Best Out of Waste' course and wish to join the same. Write a letter of inquiry to the Director, Pooja Hobby Classes, 412, Azad Nagar, Delhi enquiring about the details of the course.

2. You are Abhimanyu Sikri, resident of 119, Nilgiri Apartments, Kirti Nagar, Delhi. You purchased a wardrobe made of recycled wood shaving; from M/s Pawan Sales, Ramesh Nagar, Delhi. Write a letter of complaint to the Sales Manager asking for replacement of the product which you purchased 15 days ago. You have found that doors do not shut and the paint is uneven.

VI. Answer the following questions in about 100-150 words.

1. Parents of the young seagull supported him to fly and search for his food by himself. Write a paragraph on 'Parenting' on the basis of reading of the story.

2. Explain what was crossing the author's mind when he was flying over Paris. What happened suddenly?

3. There can be no trust among thieves. The story 'A Question of Trust' is ironical, sarcastic on the lives of thieves. On the basis of reading of the story write a paragraph on "Trustworthiness".

4. What is the role of Madam Forestier in the story 'The Necklace'?

Subject: MATHEMATICS

Case study-1

Indian Army is the third biggest military contingent in the World next to USA and China. On 71th republic day Parade in Delhi Captain R.S Meel is planning for parade of the following two groups:

(a) First group of Army contingent of 624 members behind an army band of 32 members. (b) Second group of CRPF troops with 468 soldiers behind the 228 members of bikers. These two groups are to march in the same number of columns. This sequence of soldiers is followed by different states Jhanki (Tableau) which are showing the culture of the respective states.

(a) What is the maximum number of columns in which the army troop can march?

(i) 8 (ii) 16 (iii) 4 (iv) 32

(b) What is the maximum number of columns in which the CRPF troop can march?

(i) 4 (ii) 8 (iii) 12 (iv) 16

(c) What is the maximum number of columns in which total army troop and CRPF troop together can march past?

(i) 2 (ii) 4 (iii) 6 (iv) 8

(d) What should be subtracted from the number of CRPF soldiers and the number of bikers so that their maximum number of column is equal to the maximum number of column of army troop?

(i) 4 Soldiers and 4 Bikers (ii) 4 Soldiers and 2 Bikers

(iii) 2 Soldiers and 4 Bikers (iv) 2 Soldiers and 2 Bikers

(e) What should be added to the number of CRPF soldiers and the number of bikers so that their maximum number of column is equal to the maximum number of column of army troop?

(i) 4 Soldiers and 4 Bikers (ii) 12 Soldiers and 12 Bikers

(iii) 6 Soldiers and 6 Bikers (iv) 12 Soldiers and 6 Bikers

Answer the following questions

1. A charitable trust donates 28 different books of maths, 16 different books of science and 12 different books of social science to poor students. Each student is given maximum number of books of only one subject of their interest and each student got equal number of books.

(a) Find the number of books each student got.

(b) Find the total number of students who got books.

2. Mohit and Sahil are driving on two roads represented by the equation $2x + 3y = 7$ and $4x + 6y = 12$. They drive within the speed limit.

(a) Will they meet at some point? Justify your answer.

3. A man wished to donate some money to a group of poor people. He decided to give Rs120 to each person and found that he fell short of Rs60, when he wanted to give to all the people present. He, therefore, distributed Rs90 to each person and found that Rs 90 were left over. How much money did he have and how many people were there?

4. The coordinates of houses of Sonu and Labhoo are (7, 3) and (4, 3) respectively. Coordinates of their school is (2, 2). If both leave their house at the same time in the morning and also reach school in time then

(a) who travel faster

5. Solve for x and y : $\frac{6}{x+y} = \frac{7}{x-y} + 3$, $\frac{1}{2(x+y)} = \frac{1}{3(x-y)}$, where $x+y \neq 0$ and $x-y \neq 0$.

6. A speed of a boat in still water is 11 km/hour. It can go 12 km upstream and return downstream to the original point in 2 hours 45 minutes. Find the speed of the stream.

7. Find the positive value of k, for which the equation $x^2 + kx + 64 = 0$ and $x^2 - 8x + k = 0$ will both have real roots.

8. Find a, b and c such that the following numbers are in AP: a, 7, b, 23, c.

9. How many terms of the AP 3, 5, 7, ... must be taken so that the sum is 120?

10 In a triangle ABC, P divides the side AB such that AP: PB = 1 : 2, Q is a point on AC such that PQ || BC. Find the ratio of the areas of Δ APQ and trapezium BPQC.

11. Show that the points A (2, - 2), B (14, 10), C (11, 13) and D (- 1, 1) are the vertices of a rectangle.

12. Solve the following for x: $\frac{1}{2a+b+2x} = \frac{1}{2a} + \frac{1}{b} + \frac{1}{2x}$

13. If the sum of first 6 terms of an AP is 36 and that of the first 16 terms is 256, find the sum of first 10 terms.

14. If the p^{th} term of an AP is $\frac{1}{q}$ and the q^{th} term is $\frac{1}{p}$ show that the sum of p q terms is $\frac{1}{2} (p q + 1)$.

15. The 2nd, 31st and the last term of an AP are $7\frac{3}{4}$, $-6\frac{1}{2}$ respectively. Find the first term and the number of terms.

Subject: PHYSICS

1. An object is held at a distance of 15 cm from a convex lens of focal length 10 cm, can its image be taken on a screen.
2. Why are copper and Aluminium and copper wires used as transmission lines for electric power?
3. Why does clear sky look blue and why is it dark for the astronauts?
4. Why are danger signals red?
5. Draw a neat diagram to show the magnetic field lines around a straight current carrying conductor and explain the experiment with the rule.
6. List any three properties of the magnetic field lines.
7. Express ohm's law by a mathematical formula. Draw a circuit diagram to verify Ohm's law. Present the relationship between the voltage applied across a conductor and the current flowing through it graphically.
8. You are given a concave mirror of focal length 15 cm . what should be the range of distance of object from the mirror to obtain an erect image. Draw the course of rays.
9. Why is lower end of visible spectrum of white light through a glass prism violet ?

Subject: CHEMISTRY

1. What are strong and weak acids? Why do you classify them in this way? Give examples.
2. When electricity is passed through common salt solution, sodium hydroxide is produced along with liberation of two gases X and Y. X burns with pop sound while Y is used for disinfecting water. (i) Identify X and Y. (ii) Give chemical equation for the above reaction. (iii) State the reaction of Y with dry slaked lime and give equation.
3. What are redox reactions? Why is the reaction of manganese dioxide and hydrochloric acid a redox reaction? Identify the substance getting oxidised and reduced?
4. What happens when i) potassium iodide is added to silver nitrate solution (ii) iron sulphate is heated strongly (iii) zinc is added to iron sulphate. Write chemical equations for the above reactions.
5. Sodium hydrogen carbonate is a basic salt. Justify this statement. How is it converted to washing soda?
6. What is a homologous series? What are its characteristics? Give examples.
7. The pH of four solutions A,B,C,D are 1,6,8,13 respectively. Identify which of them is a strong acid, strong base, weak acid, weak base.
8. Explain how nature of oxides varies in a period and in a group.

Subject: BIOLOGY

1. Draw a labelled diagram of the human excretory system.
2. Name the blood vessel entering the kidney and one leaving it.
3. Amoeba shows the following kind of nutrition:

- a) Autotrophic b) Holozoic c) Parasitic d) Saprophytic

- Name the largest Artery and Vein in the human body.
- Which chromosomes are called Autosomes?
- What do you mean by dominant and recessive trait?
- Name two plants that are grown through vegetative propagation.
- Explain the terms implantation and placenta. What is the average duration of human pregnancy?
- Read the following and answer the questions given below:

Cellular Respiration

The series of reactions inside your cells that helps to break down energy-containing molecules to provide your body with energy. This may sound simple, but it actually involves several separate steps. The first step in this cycle is called Glycolysis. In this process, glucose molecules are broken down into two molecules of pyruvic acid plus a small amount of ATP and NADH.

Following glycolysis, cellular respiration can take one of three routes. If oxygen is not present, it goes through a process called *fermentation*. When oxygen is present, *aerobic* processes take place. These reactions require oxygen and are much more effective at releasing energy than anaerobic reactions. Reactions that are categorized as aerobic include the Krebs cycle and the Electron Transport Chain.

- In this process, an enzyme converts the pyruvic acid made in glycolysis into a three-carbon molecule-
 - Lactic Acid Fermentation
 - Alcoholic fermentation
 - Oxidative decarboxylation
 - Citric acid cycle
- This causes the bubbles that form inside of bread when it cooks-
 - Alcohol
 - Carbondioxide
 - Oxygen
 - Pyruvate
- There are two sub-processes that make up only aerobic respiration-
 - TCA cycle and Glycolysis
 - Electron Transport Chain and citric acid cycle*
 - Krebs cycle and glycolysis*
 - Glycolysis and Krebs cycle*
- The pyruvic acid that is created in glycolysis is then used in other processes to further release additional energy into-
 - Cytoplasm
 - Mitochondria
 - Chloroplast
 - Vacuole

Subject: SOCIAL SCIENCE

- State any 3 problems faced by road transport.
- Which two means of transport are widely used within the north-eastern states of India? Why?
- What is mass communication? What are the different means of mass communication? What is the significance of mass communication in a country like India?
- What are the advantages of multi-party system?
- What are the various challenges faced by political parties?
- Analyse the role of credit for development.
- In what ways does the reserve bank of India supervise the functioning of banks? Why is this necessary?
- Who were Marianne and Germania? What was the importance of the way in which they were portrayed?
- Why did nationalist tensions emerge in the Balkans?
- Equality before law did not necessarily stand for universal suffrage in Europe. Discuss.

विषय: हिंदी (द्वितीय भाषा) कोर्स 'बी'

1. निर्देशानुसार उत्तर दीजिए -

(क) रेखांकित पदबंध के सही विकल्प चुनिए -

(i) कुछ लोग चिल्लाते हुए दौड़ रहे थे।

(क) क्रिया पदबंध (ख) संज्ञा पदबंध (ग) क्रिया- विशेषण (घ) विशेषण पदबंध

(ii) पड़ोस वाली चाची जी के घर में कल से ताला पड़ा हुआ है।

(क) संज्ञा पदबंध (ख) क्रिया पदबंध (ग) सर्वनाम पदबंध (घ) विशेषण पदबंध

(ख) निर्देशानुसार रचना के आधार पर वाक्य परिवर्तन कीजिए -

(i) सवेरा होते ही किसान खेतों की ओर चल पड़े। (मिश्र वाक्य)

(ii) वह आइसक्रीम खरीदने बाज़ार गया। (संयुक्त-वाक्य)

(iii) तुम वहाँ चले जाओ जहाँ बस रूकती है (सरल वाक्य)

(ग) उचित मुहावरे से रिक्त स्थान की पूर्ति कीजिए-

(i) तंतरा बेसब्री से वामीरो की ____ रहा था।

(ii) शिक्षक के कक्षा से निकलते ही बच्चों ने ____ लिया।

2. (क) परोपकार अथवा ईमानदारी पर आधारित 100-120 शब्दों में एक लघुकथा लिखिए।

(ख) “अंत भला तो सब भला” शीर्षक पर एक 100 -120 शब्दों में लघुकथा लिखिए।

3. कोरोना के प्रति लोगों की ढिलाई के संबंध में अपने क्षेत्र के चर्चित समाचार पत्र के माध्यम से जागरूकता का संदेश दीजिए।

4. आपके बैंक अकाउंट से किसी ने धोखे से एक लाख रूपए निकाल लिए हैं, इसकी सूचना देते हुए बैंक प्रबंधक को पत्र लिखिए।

విషయం: తెలుగు

1. ఈ క్రింది పద్యములకు ప్రతిపదార్థము, భావం వ్రాయుము.

1. ఆ కంఠంబుగ నిప్పు మాదుకర భిక్షాన్నంబు భక్షింపగా

2. వేదపురాణశాస్త్ర పదవీ నదవీయసియైన పెద్ద ముత్తైదువ

3. అనవుడు నల్లనవ్వి కమలానన యిట్లను, లోస్పగాక, - -----

2. ఈ క్రింది ప్రశ్నలకు సమాధానము వ్రాయండి.

1. కోపం కారణముగా వ్యాసుడు కాశీ నగరాన్నే శపించాలనుకున్నాడు కదా! కోపం మనిషి విచక్షణను నశింపజేస్తుంది. అనే అంశము గురించి వ్రాయుము.

2. వృద్ధుని పాత్రస్వభావాన్ని, గొప్పతనాన్ని సొంతమాటల్లో వ్రాయుము .

3. మానవ ప్రస్థానంలో కళ, కవిత, విజ్ఞానం తోడున్నాయని కవి వర్ణించాడు కదా! దీనిని ఎలా సమర్థిస్తారు?

3. ఈ క్రింది అర్థసందర్భములు వ్రాయుము.

1. రేపాడి మేలుకని యే నే పాపాత్ముని ముఖంబు నీక్షించితివో?

2. పద్యసంత్రాసంతో చింతలు పారిపోతాయా?

3. అధ్యష్టవంతుడికి కన్నీటితో అభిషేకం జరుగుతున్నప్పుడు!

4. 1. పంచవటిలో సీతారాముల జీవితం ఎలా సాగిందో వివరించండి.

2. వాలి, సుగ్రీవుల యుద్ధమును వివరించుము?

5. ఈ క్రింది వచనకవిత చదివి అడిగినవిధముగా ప్రశ్నలకు జవాబులు గుర్తించుము

మంత్రాలతో చింతకాయలు

రాలనప్పుడు పద్య

సంత్రాసంతో చింతలు

పారిపోతాయా?

యంత్రాలతో జబ్బులు

నయం కానప్పుడు

తంత్రాలతో సమాజరుగ్మతలు

దారికి వస్తాయా?

ప్రశ్నలు:

1.దేనితో చింతకాయలు రాలవు ?

అ)మంత్రాలతో ఆ)యంత్రాలతో ఇ)జబ్బులతో ఈ)పైవన్నీ

2)సమాజరుగ్మతలు అంటే ఏమిటి ?

అ)సామాజిక అన్యాయాలు ఆ)సామాజిక సమస్యలు ఇ)సామాజిక లక్ష్యాలు ఈ)పైవన్నీ

6.అమితపరాక్రమంబును రయంబును లావును గల్గు ఖేచరో

పై పద్యపాదము గణవిభజన చేసి లక్షణములు వ్రాయుము

7.అన్నదమ్ములు విగ్రహవాక్యమును , సమాస పదమును తెలియజేయుము ?

8.సమాసములో మొదటి వాచకపదము సంఖ్య వాచకమైతే అది ఏ సమాసము?

9.త్రికములు అనగా నేమి ?

10.రుగాగమ సంధి సూత్రము వివరించుము ?

11.ఓ కృష్ణా!నీ కీర్తి హంస వలె ఆకాశ గంగా యందు మునుగు చున్నది. ఇది ఏ అలంకారమో తెలియజేసి లక్షణమును వివరించుము

12.పద్మాది సంధి సూత్రమును వివరించుము.

13. దేశాభివృద్ధి-విద్యార్థుల పాత్ర వ్యాసమును వ్రాయుము.

14.విశాఖ జిల్లా బుచ్చెయ్యపేట మండలం వడ్డాది గ్రామం లో ప్రజలు పడుతున్న మంచినీటి సమస్య గురించి జిల్లా అధికారికి ఆ గ్రామ సర్పంచ్ తాతబాబు వ్రాయుచున్నట్లు లేఖ వ్రాయుము.

విషయ: - సంకృతమ్

1. मञ्जूषा सहायेन एकस्य विषयस्य उपरि संस्कृते पञ्च वाक्यानि लिखत |

2. रेखाङ्कित पदानां प्रश्ननिर्माणं कुरुत - पाठः - 8, 9 (अष्ट वाक्यानि)

3.पठित गद्यांशः (पाठः - 8) |

4.पठित पद्यांशः | (पाठः - 9)

5.पठितनाट्यांशः | (पाठः - 7)

6. समयः (पञ्च वाक्यानि) |