PM SHRI KENDRIYA VIDYALAYA NO. 1 DHANBAD
AUTUMN BREAK HOME-WORK
CLASS-X
SUB- ARTIFICIAL INTELLIGENCE

CH. – NATURAL LANGUAGE PROCESSING

Write answer of following question.

1. What is NLP (Natural Language Processing)?
2. Write any 5 applications of NLP and write short note for each application.
3. What is ChatBots? Explain different types of ChatBoats?

PM SHRI KENDRIYA VIDYALAYA NO. 1 DHANBAD
AUTUMN BREAK HOME-WORK
CLASS-X
SUB- ENGLISH

Q.1 .Write a letter in 120 words to the Editor of 'National Herald', New Delhi, about the scarcity of water in your locality suggesting ways to improve the position of water supply. You are Kunal/Karuna of Ghaziabad.

Q. 2.You are Renu living at 57, Patel Nagar, Delhi .The unsanitary conditions in your colony are causing diseases for the residents . Write a complaint letter to the Municipal Commissioner to take necessary actions regarding the same.

Q. 3. Read the following conversation and complete the passage below:
Neha: I'm really looking forward to the class picnic tomorrow.
Namita: Yes, after a long time we will be meeting our friends and teachers.
Neha told Namita (1) _____ looking forward to the class picnic _____. Namita agreed that after a long time (2) _____ friends and teachers.

Q. 4.Read the following conversation and complete the passage below:
Ritika: Can I borrow your Math book for a couple of days?
Mohit: Yes certainly, I have already studied for the test tomorrow.
Ritika asked Mohit (1) ……………. for a couple of days. Mohit agreed and said that (2) ……………. .

PM SHRI KENDRIYA VIDYALAYA NO. 1 DHANBAD
AUTUMN BREAK HOME-WORK
CLASS-X
SUB- HINDI

प्रश्न 1. लड़कियों की घटती संख्या के बारे में जन जागरूकता लाने के उद्देश्य से 25 से 50 शब्दों में एक विज्ञापन लिखिए |

अथवा

आप एक नया मोबाइल शोरूम खोलने जा रहे हैं किसी स्थानीय समाचार पत्र में देने के लिए 60 शब्दों में एक विज्ञापन लिखिए ।

प्रश्न 2. निम्नलिखित विषयों पर 120 शब्दों का अनुच्छेद लिखिए।

1. आज़ादी का अमृत महोत्सव

2. नई शिक्षा नीति 2020

प्रश्न 3. निर्देशानुसार वाक्य परिवर्तन कीजिए-
(क) लोग खाना खा रहे होंगे | (कर्मवाच्य)
(ख) अनेक आतंकवादियों को मारा गया । (कर्तृवाच्य)
(ग) वह नहीं दौड़ा । (भाववाच्य)
(घ) यह पत्र शुभी ने भेजा होगा | (कर्मवाच्य)

प्रश्न 4. स्ववृत्त लिखकर लाएँ।

प्रश्न 5. सामयिक परीक्षा २ (PT-2) के प्रश्न-पत्र को हल करें।

अभ्यास भाग

प्रश्न 1- व्याकरण से सम्बंधित भाग का अभ्यास कीजिए।

प्रश्न 2- क्षितिज पुस्तक के समस्त पाठों का अभ्यास कीजिए ।

प्रश्न 3- कृतिका के समस्त पाठों का अभ्यास कीजिए ।

PM SHRI KENDRIYA VIDYALAYA NO. 1 DHANBAD
AUTUMN BREAK HOME-WORK
CLASS-X
SUB- MATHS

Solve the following questions:-

1. A cylindrical tank with a diameter of 14 m and a height of 10 m is to be painted inside and outside. If the cost of painting 1 square meter of surface is ₹10, calculate the total cost of painting the tank. (Use π =3.14)

2. Two cubes of volume 64 cubic cm are joined end to end. Find the surface area of the resulting cuboid.

3. A vessel is in the form of a hollow hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14 cm and the total height of the vessel is 13 cm.Find the inner surface area of the vessel.

4. Prove that $(1+\sin A)/(1-\sin A)=[(1+\sin A)/(\cos A)]^2$

5. Prove $(\tan\theta + \sec\theta - 1)/(\tan\theta - \sec\theta + 1) = (1 + \sin\theta)/\cos\theta$

6. A 1.5 m tall boy is standing at some distance from a 30 m tall building. The angle of elevation from his eyes to the top of the building increases from 30° to 60° as he walks towards the building. Find the distance he walked towards the building.

7. From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower.

8. $(\text{Cosec A}- \text{Cot A})^2=(1-\cos A)/(1+\cos A)$

9. State and prove BPT

10. Prove that the tangent drawn from an external point will be equal.

11. Find a relation between x and y such that the point (x,y) is equidistant from the point A (3,6) and B (-3,4)

12. Find the coordinates of the point of trisection of the line segment joining (4,-1) and (-2,-3)

SCIENCE AUTUMN BREAK HOLIDAY HOMEWORK

PM SHRI KENDRIYA VIDYALAYA NO 1 DHANBAD

Class 10

- **Prepare for monthly test according to syllabus and blue print provided .**
- **Learn and write each formula 10 times in your practice copy, all the formulae from chapters- Electricity and Light .**
- **Practice Ray diagrams from chapter light. Draw each diagram 10 times.**
- **Practice diagrams and labelling from chapter life processes. Each diagram 3 times.**
- **Learn and write all the chemical reactions from the chapters – Chemical reactions , Acids , bases and salts, Metals and non- metals ,Carbon compounds.**
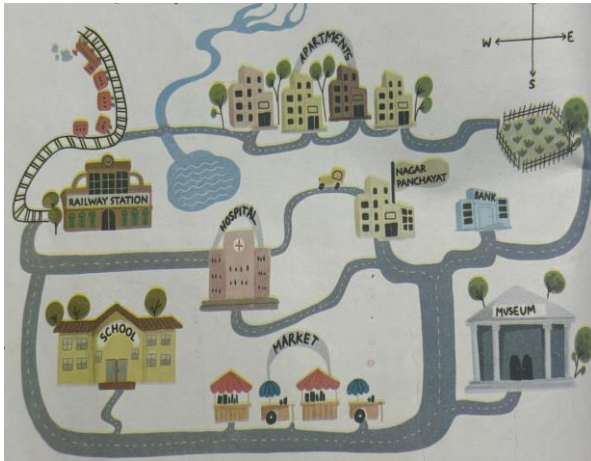
CLASS – VI

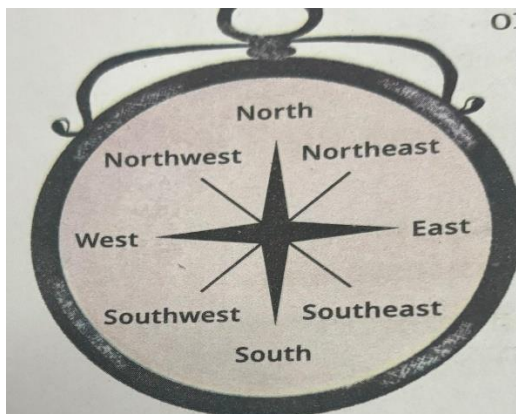Q.1 See this image in your book(page no.8) and give the answer of following questions.

(a) Mark the hospital

(b) What is the meaning of the blue –coloured areas?

(c) Which is the farther away from the railway station---the school , the NagarPanchayat or the public garden?

Q.2 Draw a simple map of a school's playground. Let us assume it is a rectangle, 40 m in length and 30 m in width. Draw it precisely with your ruler on a scale of 1 cm = 10 m

Q.3 See this picture and write

(a) Cardinal directions

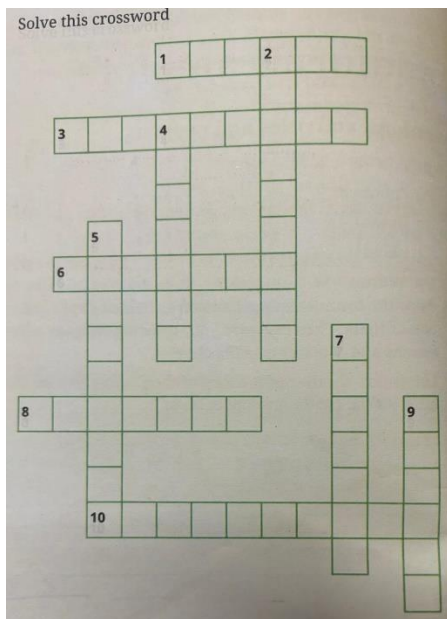(b) Intermediate directions

Q.4 Locate the all states and union Territory in Indian political map .

Q.5 Locate all the continent in world map.

Q.6 Solve this Crossword

Across

1. Abundantly produced by the oceans

3. A large expanse of landmass

6. A large continent of which India is a part

8. A major source of pollution of the oceans

10. The coldest continent

Down

2. The largest island on Earth

4. A huge destructive wave from the ocean

5. The smallest continent

7. The largest body of water on the Earth

9. A landmass (but not a continent) surrounded by the sea or ocean

Q.7 Complete your MDP project

Q.8 Complete your notebook and Learner's Diary

CLASS – X

1. Write a short note on any five points given below (about 80 words each)

a. A Cheque

b. Terms of Credit

c. Double coincidence of wants

d. Commercial Farming

e. Criteria of National party (Recognised party)

f. AAP (Aam Aadmi Party)

g. Green Revolution

2. Write a note on given topics (about 120 words)

a. What is the source of income for the banking system?Explain the whole mechanism?.

b. What do you understand by SHGs? Explain their functioning and contribution in eradication of poverty.

c. What were the Institutional and technological reforms taken by the government of India to strengthen the agricultural sector of the country?

d. Define the cropping seasons in India?

e. What are the Challenges to political parties?

f. How can political parties be reformed?

3. Map pointing

Label the following on outline map of India

1. Coal mines – Raniganj ,Bokaro, Korba, Singrauli, Singareni, Neyveli , Jharia

2. Oil fields - Digboi, Ankaleshwar, Mumbai high,

3. Nuclear Power plants -Tarapur ,Kakrapara, RawatBhata, Naraura, kalpakkam, Kaiga.

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