Subject: English

Q1. Read the following passage carefully:

Manufactured goods worth crores of rupees are being imported every year. There is a dearth of food. Our industries are yet at infancy stage. We need mechanized farming to increase the output of corn. All this is only possible if we give a technical turn to our education and if skilled labour is made available. At present there are very few technical institutions in the country. And the reason is not far to seek. Most of our young men prefer a job in some office to doing work with their hands. They think that manual labour is degrading. Unemployment, therefore, stares them in the face. The jobs of clerks in offices too, are limited.

Education in arts or crafts will serve a very useful purpose. It will help our youth to make an independent living. They can set up their own little workshops. This type of education will also solve the unemployment problem to some extent. We must, however, guard against one thing. Technical education to be of real use should be based on a good literary education at least up to matriculation standard. It has been seen that an educated craftsman has better chances of success in life than an illiterate one.

India is rich in mineral resources but most of them have not been tapped. The government is keen to utilise this wealth. More and more technical institutions are, therefore, being opened. Many technical hands are pouring out of our universities every year. It is a happy sign of the times but, unfortunately our industries have not been able to absorb this ever-increasing number of technical hands. Already the number of unemployed technical hands has gone up. It is feared that if some quick measures are not taken to develop our industries, the government will be forced to restrict admission to the technical colleges.

The work of technical training should go hand in hand with the development of industries. In this alone lies the real solution of the problem. The government too is alive to this. It is hoped that more and more factories will be opened in the near future. It will be a criminal waste of country's intelligence if our young engineers are forced to migrate to foreign countries only because the country cannot provide them with proper means of living.

On the basis of your reading of the above passage, answer the following questions: (1x5=5)

   (a) What is the cause of unemployment in India?
   (b) How can education in art and craft help our youth to make an independent living?
   (c) How can technical education be of real use?
   (d) How can our government stop the migration of country's intelligence to foreign countries?
   (e) Which word in Para 3 means the same as 'keep under control'?

Q2. Mr. Shankar calls up his colleague, Mr. Bhatt but Mr. Bhatt is not at home. His son, Sunil takes down the message**.   (2)**

   Mr. Shankar: Hello, Can I speak to Mr. Bhatt, please?

Sunil: I'm sorry, he is not at home. May I know who is calling?

Mr. Shankar: I'm Shankar, his colleague.

Sunil: Hello uncle. I'm Sunil, his son. Can I take down the message for dad?

Mr. Shankar: Sure. please tell your father to reach Hotel Grand Park tomorrow.

Sunil: Tomorrow?

Mr. Shankar: Yes, at 8:00 pm. The MD of our company is organizing a dinner. He needs to convey the same message to Mr. Singh also.

Sunil: Okay, uncle, I'll convey the message.

Mr. Shankar: Bye!

Sunil must leave for his extra class and so he leaves the message for his dad.

Draft a message in not more than 50 words for Mr. Bhatt

Q3. You are Shanti/ Suresh, residing at 12 M.G. Road, Chennai. You have noticed many stray animals on the road during the busy hours of the day. These animals cause traffic jams as well as accidents. You have already written to the concerned authorities, but no action has been taken so far. Write a letter to the Editor, The Hindu, drawing the attention of the Municipal Commissioner, Chennai. **(3)**

Q4. Fill in the blanks with appropriate words. **(½ x4=2)**

Seeing a crow eating a piece of bread, a fox thought how it(a) _____(a) trick that fellow. (b)_____ I talk to you sir?" The crow didn't even look at the fox. The fox again said, "_____ (c) you please pay a little attention to me?" What a nice bird you are! Your voice (d) _____ be very sweet. I am sure you can sing very well. The crow said to itself, "I'll show this fox how well I can sing." It opened its beak. The piece of bread fell and was eaten away quickly by the fox.

Q5. Fill in the blanks with suitable words. **(½ x4=2)**

The sale of cars (a)_____up this year. This (b) _____ the largest car boom, the country (c)_____ seen in years. Today the largest growth (d) _____ seen for small cars. There are currently 1.7 million new cars bought every year, but Maruti Suzuki is not profiting from this development.

Q6. Fill in the blanks with the correct form of the words. **(¼ x4=1)**

Roald Dahl, a famous children's writer was born on 13th September 1916, in Wales. His colourful experiences as a student in boarding schools (a) _____(be) the inspiration for his book Boy and Danny Champion of the World'. Dahl (b) _____(become) a writer during World War II, when he (c) _____ (recount) in a short story his adventures as a fighter pilot for the Royal Air Force. The story (d) _____ (buy) by the Saturday Evening Post and a long, illustrious career was born.

Answer the following questions in 20-30 words. **(2x2=4)**

Q7. How is a foreigner different from native?

Q8. Who is a coroner and why does he get involved?

Answer the following questions in about 80 words. **(3x2=6)**

Q9. What is Rappaccini's views about diseases? How did he manage to be successful at turning his daughter into the world's deadliest weapon?

Q10. How were the people not safe during World War II? Write any one method people used to find about the German spies?

प्रश्न 1 उचित शब्दों द्वारा रिक्त स्थानों की पूर्ति कीजिए —— (2)

    1 वर्णों के व्यवस्थित समूह को...... कहते हैं।

    2 जिन वर्णों का उच्चारण स्वतंत्र होता है उन्हें... ......कहते हैं।

    3 वर्णों को ... .भागों में बाँटा गया है।

    4 गुजराती की लिपि... ......है।

प्रश्न 2 निम्नलिखित शब्दों के वर्ण – विच्छेद कीजिए— (2)

    1 विद्यालय 2 महेश

प्रश्न 3 निम्नलिखित संख्याओं को शब्दों में लिखिए— (2)

    17   20   22   30

प्रश्न 4 निम्नलिखित मुहावरों को वाक्यों में प्रयोग कीजिए — (2)

    1 अगर–मगर करना   2 आँखे खुलना

प्रश्न 5 निम्नलिखित लोकोक्तियों को वाक्यों में प्रयोग कीजिए— (2)

    1 आ बैल मुझे मार   2 अपना हाथ जगन्नाथ

प्रश्न 6 हिंदी के किन्ही चार महीनों के नाम लिखिए। (2)

प्रश्न 7 निम्नलिखित मुहावरों व लोकोक्तियों के अर्थ लिखिए— (2)

    1 अक्ल चरने जाना।

    2 आँखों में धूल झोंकना।

    3 इस हाथ दे उस हाथ ले।

प्रश्न 8 निम्नलिखित वर्णों का मिलान कर शब्द बनाइए — (2)

    1 स्+आ+र्+थ्+अ+क्+अ

    2 उ+च्+च्+आ+र्+आ+ण्+अ

प्रश्न 9 भाषा और बोली में क्या अंतर है? (2)

प्रश्न 10 निम्नलिखित भाषाओं की लिपियाँ लिखिए — (2)

    हिंदी   गुजराती   पंजाबी बंगाली

Subject - Mathematics

Q.1) Solve for x: $0.35x - 0.025 = 0.32x + 0.023$ **(2)**

Q.2) Explain associative property of rational numbers under division with suitable example. **(2)**

Q.3) Solve $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$ and verify your answer. **(3)**

Q.4) Bansi has three times as many two-rupees coins as he has five-rupee coins. If he has in all a sum of ₹77, how many coins of each denomination does he have? **(3)**

Q.5) Verify that $-(-x) = x$ for: (i) x = 13/7   (ii) x = -21/31 **(3)**

Q.6) Represent the following rational numbers on a single number line: $\frac{-1}{6}, \frac{2}{8}, \frac{1}{4}, \frac{-1}{4}$ and 0. **(3)**

Q.7) Rohan's father's age is three times Rohan's age. After five years, father's age will be $2\frac{1}{2}$ times his son's age. Find the present age of Rohan and his father. **(3)**

Q.8) If a = -4/13 and b = 2/5 ,then verify that $(-a) + (-b) = -(a+b)$ **(3)**

Q.9) Case Study: A farmer Ramesh has a rectangular plot of land whose length is $25\frac{3}{4}$ m and breadth $15\frac{2}{3}$ m whereas farmer Ramu has a square plot of side measurement as $15\frac{2}{3}$ m. Answer the following questions on the basis of this information.
(i) What is the perimeter of Ramesh's plot? **(1)**
(ii) Calculate the perimeter of Ramu's plot. **(1)**
(iii) Compare the area of both the farmers plot. **(2)**

Q.10) Activity: Complete the activity in Math practical file. **(2+2)**
Verify Angle Sum Property of a triangle and a quadrilateral by paper cutting and pasting method.
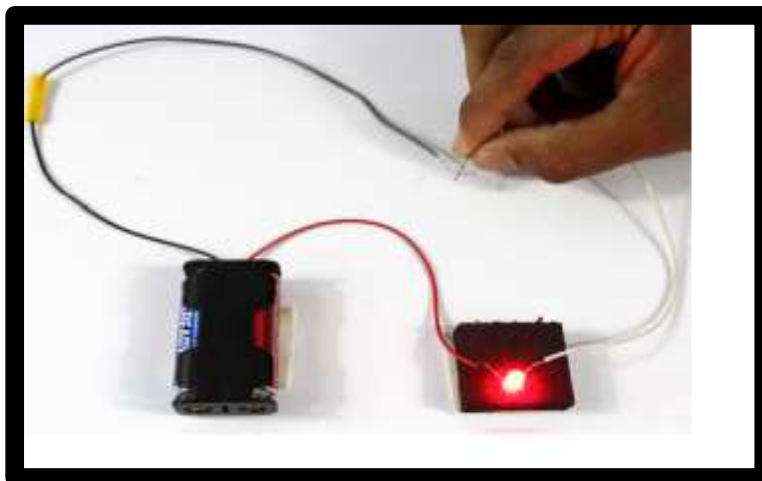
Subject: Science

ACTIVITY
Take a picture of yourself while doing the activity
Follow the steps given below to perform the activity:
1. Make a 'tester' using a battery, three connecting wires and an L.E.D. as
  shown in the picture given below.

2. Pour the liquid in a bowl and dip the open ends of the tester in it.
3. Choose your observations using the table given below.

S. No.	Liquid	LED- The glow was bright	LED- It didn't glow.	LED- The glow was dim.
1	Milk			
2	Soap Water			
3	Vegetable oil			
4	Lemon Juice			
5	Tap Water			

Based on your observations, answer the following questions:
1. Out of all the liquids tested, in which one did the LED glow the brightest?
2. What can be concluded from the activity performed?
3. Find one liquid from your household in which LED didn't not glow when tested for conduction.

Q1. Why does a farmer need to improve soil fertility artificially?   **(2)**
Q2. You want to lift a heavy box. The force of gravity pulls it downwards with 500 N.   **(2)**
   (i)   How much force you will have to apply to lift the box?
   (ii)   If your friend supports the box from below with a force of 270 N, how much force will
        you have to apply to lift the box?
Q3. If a man stands on chair, chances of its breaking are more but if a man sits on chair, chances of its
breaking are less. Explain.   **(2)**
Q4. Plastic articles are available in all possible shapes and sizes. Can you tell why?   **(2)**
Q5. How does a farmer prepare the soil before sowing seeds?   **(3)**

Q6. On Lokesh's birthday Shreya was given charge to amuse children with some little tricks. Shreya sticked balloons to the wall by just rubbing them in her clothes. She bent the water stream from a tap without touching it. She did so by bringing big balloon near to the flowing water. All children were very happy on seeing this little magic. **(3)**

(i) Explain why did the balloons stick to the wall?

(ii) Shreya could bend the water stream, without touching it, by just bringing a big balloon near it. Explain.

Q7. Describe an activity to show that "a force can change the state of motion". **(3)**

Q8. A polymer is composed of many repeated units of monomers. What is polyester, cotton and silk composed of? Enlist its characteristics. **(3)**

Q9. What are the two modern methods of water irrigation? Explain it with the help of suitable diagrams. **(5)**

Q 10. Shruti's mother went to the market to buy new lunch box for Shruti. She saw different lunch boxes made up of plastics as well as steel. Plastic lunch boxes of different colours were very attractive, but the steel lunch box was very simple. Shruti's mother told her to select a lunch box for her. She selected a lunch box made of steel instead of plastic one. Read the passage and answer the following questions: **(1+2+2)**

a) Why does Shruti prefer steel lunch box instead of plastic one?

b) Why do you think the shopkeeper had many plastic lunch boxes available in the shop?

c) Are plastic materials environment friendly? Explain.

Subject-Social Science

General Instructions:
- ➤ **The work should be done neatly and in a systematic way.**
- ➤ **The given worksheets are to be done in History and Civics notebook.**
- ➤ **Mention the number of worksheet while doing the work.**
- ➤ **Write questions along with the answers and number them correctly.**
- ➤ **Maps/diagrams are to be pasted/done in the notebook.**
- ➤ **Project work is to be done in scarp files.**

Answer the following questions: **M.M: 30**

Q1. Define the given terms: **(1+1=2)**
   (i) egalitarian society   (ii) tribunal

Q2. Enumerate the difference between 'Rule' and 'Rule of Law'   **(2)**

Q3. Answer the following in brief: **(1+1=2)**
   (i) Why do you think merchants and traders from Europe came to India?
   (ii) Why did the British conduct so many surveys in India?

Q4. Define Resources. How are human beings an important resource on earth? **(2)**
Q5. Enumerate the difference between the following: **(1.5+1.5=3)**

   (i) Potential and Actual resources
   (ii) Ubiquitous and Localized resources

Q6. (i) What do you understand by periodization in History?   **(1+2=3)**
   (iii) Look at the pictures given below and mention the periods to which these belong to in Indian History.

Q7. What is a Constitution? State its significance.   **3**

Q8. What do you understand by dowry? Explain briefly the 'Dowry Prohibition Act'. **3**

Q9. Make a G.O. on the main sources that have helped the historians to study the past. Explain any three in detail.   **(2+3=5)**

Q10. Project work   **5**

- Prepare a scrap file on the sustainable management of the natural resources and its conservation.
- Find out what type of natural resources (plants, animals, rocks, and fossil fuels) are used to make the objects we use in our everyday life. Where their trash goes when it is thrown away, and how this affects the Earth.

Hints: Your file should be able to answer the following questions in detail.

» **What are the natural resources that humans throw in the trash the most?**
» **Which resources do they use the most?**
» **Why is it important to conserve natural resources?**
» **What would happen to the earth if we used more resources than it could make?**
» **How can we conserve natural resources in our daily lives?**

प्रश्न 1 मञ्जूषायां प्रदत्तं पदानाम् सहायतया मित्रं प्रति पत्रम् लिखत ।   (1/2x10=5)

मञ्जूषा–   ज्येष्ठः, विमानम् ,रेलयानेन , तदा , दर्शनीयानि, स्वच्छाः , जागरूकाः , उपहाराणि ,सप्रेम
नमोनमः, भारते

सी-504/70 तिलक नगरम्,
दिल्ली नगरात्
तिथिः – 25. 06 .2022 ,
प्रिय मित्र कुनाल!
  [1] ------ ।
        अत्र कुशलं तत्रास्तु। ग्रीष्मावकाशे [2] ------ आरूह्य अहम् पितृभ्याम् सह विदेशम्
अगच्छम्।तत्र बहूनि [3] ------ स्थानानि अपश्यम्।वयं [4] ------ सर्वत्र भ्रमित्वा प्रसन्नाः
आस्म।विदेशे जनाः स्वच्छतां प्रति [5] ------ सन्ति अतः सर्वे मार्गाः [6] ------ सुन्दराः च भवन्ति।
 [7] ------ मासे वयम् [8] ------ आगमिष्यामः। [9] ------ अहम् तव गृहम् आगमिष्यामि।
 अहम् अनेकानि [10] ------ अपि आनेष्यामि। गृहे सर्वान् प्रति मम प्रणामाः।
 तव मित्रम्
 प्रखरः।

प्रश्न 2 अधोलिखिते संवादे मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयन्तु –   (1/2x10=5)

मञ्जूषा– मेलिष्यावः , गच्छसि , शुकाः अहम् , कूजन्ति , उद्याने ,सन्ति , हरिताः , वर्णानि ,
बालकाः

     नलिनः – मित्र अहमद! त्वं कुत्र [1] ------ ?
      अहमदः –   [2]------ उद्यानम् गच्छामि।
     नलिनः –   [3]------ किम् – किम् भवति?
     अहमदः – उद्याने विविधाः [4]------ वृक्षाः सन्ति।विविधानि [5]------   पुष्पाणि च सन्ति।
     नलिनः   – सत्यम् ! तत्र [6]------ क्रीडन्ति ।जनाः भ्रमन्ति।
     अहमदः – आम्! तत्र वृक्षे [7]------ एव तिष्ठन्ति।
     नलिनः – उद्याने कोकिलाः [8]------ ।
     अहमदः – तत्र मयूराः अपि [9]------ ।
     नलिनः – शोभनम् ! श्वः आवाम् उद्याने [10]------ ।

प्रश्न 3 चित्रम् रचयित्वा केचन त्रयः ऋतूनाम् नाम संस्कृते लिखत।   (1x3=3)

प्रश्न 4 चित्रम् रचयित्वा कश्चित् त्रयः मासानाम् नाम संस्कृते लिखत।   (1x3=3)

प्रश्न 5 निम्नलिखित वाक्यानाम् संस्कृते अनुवादं लिखत।   (1x4=4)
     (1) रमा गृहकार्य करती है।
     (2) देव खेलता है।
     (3) हरिः सैनिक है।
     (4) मदन बोलता है।

Subject: Computer Science

Q1. Which of the following identifiers are correct?   **(1x5=5)**

a) 7Y=10

b) A-3='Happy Classroom'

c) Z_1='Weeks'

d) K$='467'

e) N2=80

Q2. What will be the output of the following Python programs?   **(1x5=5)**

a) P='Climate Change'

   print(P)

b) >>>print (60*42)

c) M, N=21,62

   print ('The product of M and N is=", M*N)

d) >>>print (325/5)

e) >>>print (90.5-36)

Q3. Answer the following questions: -   **(2+2+1=5)**

a) Define keywords and identifiers in Python.

b) Mention any four uses of Python.

c) How can you open the IDLE (Python 3.7.0) window?