Sample paper

Sub-English (language and literature)

Class – 1X(Term-2)

<u>**SECTION A - READING**</u>   **(20 Marks)**

1. Read the following passage carefully: (8 marks)

Heartbeats get abnormal after exercising, running, or after doing some strenuous work. There is nothing to worry about. But if your heart beats at irregular pace often, it is important to take note of it rather than ignore it as it can be a warning sign for a heart ailment called Arrhythmia.

A normal heart beats 60-100 times per minute while resting, but if it starts beating too slowly or too fast or if the heartbeat is irregular or premature, then that condition is known as Arrhythmia. People tend to avoid it as a minor issue little knowing that it can lead to a stroke due to drop in BP, loss of consciousness or even result in heart failure.

When heartbeat is too fast, it is called Tachycardia. When the beats are slow, it is known as Bradycardia. An irregular heartbeat may be due to atrial fibrillation.

The problem is that the symptoms are quite vague and can be associated with other minor medical problems. In India, not many people are aware that there is a heart's electricity related disorder called Arrhythmia. Often it is diagnosed when doctors are checking a patient for something else. More often, by the time it is diagnosed, major damage has already been caused.

It is important to take any abnormality in the rhythm of our heart seriously. There are many symptoms that can help predict Arrhythmia like shortness of breath, weakness, early fatigue, palpitations, thumping in the chest, dizziness, chest pain, fainting, and, of course, too fast or slow heartbeats. Ignoring these symptoms is inviting a major health trouble.

While some type of Arrhythmias can be harmless, others can be life threatening as it may disrupt the normal functioning of the heart. In some cases, it can lead to heart failure too. The condition is treatable with the help of implantation of a pacemaker, devices or by burning the points from where irregular beats originate though radiofrequency heat waves.

1.1 Attempt the following questions: (1 X 8 = 8 marks)
(a) When do heartbeats get abnormal?
(b) At what pace a normal heart beats?
(c) What do you call it if the heartbeat is too slow or fast?
(d) What happens when there is drop in BP?
(e) What is the difference between Tachycardia and Bradycardia?
(f) What results due to atrial fibrillation?
(g) When is Arrhythmia often detected?
(h)What are the symptoms that help predict Arrhythmia?

2. Read the following passage carefully: (12 marks)
Have you ever failed at something so miserably that the thought of attempting to do it again was the last thing you wanted to do?

If your answer is yes, then you are "not a robot." Unlike robots, we human beings have feelings, emotions, and dreams. We are all meant to grow and stretch despite our circumstances and our limitations. Flourishing and trying to make our dreams come true is great when life is going our way. But what happens when it's not? What happens when you fail despite all your hard work? Do you stay down and accept the defeat or do you get up again and again until you are satisfied? If you have a tendency to persevere and keep going then you have what experts call, grit.

Falling down or failing is one of the most agonizing, embarrassing, and scariest human experiences. But it is also one of the most educational, empowering, and essential parts of living a successful and fulfilling life. Did you know that perseverance (grit) is one of the seven qualities that have been described as the keys to personal success and betterment in society? The other six are: curiosity, gratitude, optimism, self-control, social intelligence, and zest. Thomas Edison is a model for grit for trying 1,000 plus times to invent the light bulb. If you are reading this with the lights on in your room, you know well he succeeded. When asked why he kept going despite his hundreds of failures, he merely stated that they had not been failures. They were hundreds of ways not to create a light bulb. This statement not only revealed his grit but also his optimism for looking at the bright side

Grit can be learned to help you become more successful. One of the techniques that helps is mindfulness. Mindfulness is a practice that helps the individual stay in the moment by bringing awareness of his or her experience without judgement. This practice has been

used to quiet the noise of their fears and doubts. Through this simple practice of mindfulness, individuals have the ability to stop the self-sabotaging downward spiral of hopelessness, despair, and frustration.

What did you do to overcome the negative and self-sabotaging feelings of failure? Reflect on what you did, and try to use those same powerful resources to help you today.

2.1 On the basis of your reading of the passage, the following questions in 30-40 words each:　　　　　(2 X 4 = 8)
(a) According to the passage, what are the attributes of a human?
(b) What is perceived as grit?
(c) How is 'failing' an educational and empowering part of human life?
(d) In what ways can grit be developed?

2.2 On the basis of your reading of the passage, fill in any two of the following blanks with appropriate words/phrase:　　　(1 X 2 = 2)
(a) While inventing the light bulb, Thomas Edison had failed_____
(b) Failure is a part of _____ life.

2.3 Find out the words from the passage that mean the same as the following (any two):　　　　(1 X 2=2)
(a) Continue (para 2)
(b) Distressing (para 3)

Section - B
WRITING AND GRAMMAR SECTION　　　　30 MARKS

3. You are Amit/Anita. Recently your school had planned a visit to an old age home. You were shocked to see the miserable condition of old people. Write **a diary entry** expressing your feelings about the condition of elderly people in old age home.(100-150 words)　　　　　　**8 Marks**

    OR

    We all are aware of devastating effects of deforestation on the environment. Write **an article** on – The Importance of afforestation and maintaining a green cover in the country to prevent the pollution and global warming' with suitable title. (100-150 words)

4. **Complete the story with suitable title in about 150-200 words which begins as the following:**　　　**10 Marks**

    There was a joint family of six members including grandparents. It was the 75th birthday of thegrandmother and the family planned to celebrate…………………………………………………………………………….

    OR

    Write a story with suitable title in 150-200 words with the help of the following outline:
    Seema – working as maid – eager to go to school – unable to do so – family responsibilities – I lent a hand to support – soon pass high school exams – can teach her own children- now life changed

5. **Fill in the following blanks by choosing the most appropriate option from the ones given below.　　4 Marks**
    All life on earth can ultimately be traced back (a)_____ the sea. Creatures having limbs(b)_____ fingers rather than fins evolved from fishes about 335 millions years (c)_____. The new fossil (d)_____ in the rock formation near Scotland.
    (a) i) at　　　　ii) in　　　　　　　　iii) to　　　　　　　iv) into
    (b) i) and　　　　　　ii) or　　　　　iii) on　　　　　　iv) with
    (c) i) ago　　　　　　ii) past　　　　iii) away　　　iv) before
    (d) i) find　　　　　　ii) found　　　iii) finds　　　　iv) was found

6. **The following passage has not been edited. There is an error in each line against which a blank is given. Write the incorrect word and the corrected word in your answer sheet against the blank as given in the example. 4 Marks**

	Error	Correction
In the evening, as I am	e.g. am	was
returning by the office, I	(a)	_____ _____
saw a disorderly rows to	(b)	_____ _____
vehicles. An accident had took	(c)	_____ _____
place killing two boys and injure	(d)	_____ _____
other three.		

7. **Rearrange the following words/phrases to form meaningful sentences.**   **4 Marks**

e.g. poverty/the village people/ from/most/suffer/of
Most of the village people suffer from the poverty.
a) in rural areas/is / employment opportunities/ there / of / lack
b) come to cities/ in/ people / so / of work / search
c) appalling conditions/ cities/ they/ in / live/ in
d) other amenities/ they/ running water/ and/ sanitation/ proper/ lack

Section C (Literature)
8. Read the extract given below and answer the questions that follow:
A. Remember, no men are strange,no countries foreign.
Beneath all uniforms ,a single body breaths
 like ours the land our brothers walk upon
 Is earth like this ,in which we shall lie.
(a)Name the poem and the poet of the following extract?
(b) What is common beneath all uniforms ?
(c) Identify the figure of speech in line four?
(d)Find a word in the extract which means' strange and unfamiliar?
                    Or
B.I took a close look at my face in the mirror .I made an important decision ,I would shave daily, and grow a thin moustache to look more handsome .I was after all a bachelor ,and a doctor .I looked into the mirror and smiled. It was an attractive smile. I made another earth shaking decision, I would always keep that attractive smile on my face……..to look more handsome..I was afterall a bachelor ,and a doctor too on top of it.
 (a)What decision did the author take?
(b)Why did the author take that decision?
(c)What character trait of the author has been highlighted in the above lines?
(d)Find an adjective which mean the opposite of thin
9.Answer the following questions in 30-40 words each.?
(i)What did Mahendra see on full moon night and how did he feel?
(ii)What will the intruder gain by killing Gerrard?
(iii) How did Bruno react or what did Bruno do when the author's wife reached the zoo to meet him?
(iv) Why did the lady in the plane look at the author with stupefied expression?
(v)How was the last leaf a masterpiece of Berman?

10.Answer the following questions in about 100-150words.
How did George and Harris make a mess of things while packing?
                    OR
Describe Maria's journey to the pinnacle in women's tennis?

11.Answer the following questions in about 100-150words.
What values did Olga exhibit while saving the life of Lushkoff?
                    OR
What role did Zan's school play in normalising his life after the fire accident.

समय-3 घंटे   पूर्णांक-80

सामान्य निर्देश:

1) इस प्रश्न पत्र के 4 खंड हैं - 'क','ख','ग','घ' ।

2) चारों खंडों के प्रश्नों के उत्तर देना अनिवार्य है।

3) यथासंभव प्रत्येक खंड के उत्तर क्रमशः लिखिए।

4)एक अंक के प्रश्नों का उत्तर लगभग 15-20 शब्दों में लिखिए।

5)दो अंकों के प्रश्नों का उत्तर लगभग 30-40 शब्दों में लिखिए।

6)तीन अंकों के प्रश्नों का उत्तर लगभग 60-70 शब्दों में लिखिए।

7)पाँच अंकों के प्रश्नों का उत्तर लगभग 120-150 शब्दों में लिखिए।

प्रश्न 1) निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर नीचे दिए गए प्रश्नों के उत्तर लिखिए-

प्राचीन काल में शनि को अमंगलकारी ग्रह समझ लिया गया था। पौराणिक आख्यानों के आधार पर शनि सूर्य के पुत्र हैं । भैंसा इनका प्रिय वाहन है और इनको तेल अत्यंत प्रिय है। सत्य यह है कि शनि सौरमंडल का सबसे सुंदर ग्रह है। पुराने समय में लोग इसकी सुंदरता को देखने में असमर्थ थे। सुनी-सुनाई बातों के आधार पर लोगों में इस ग्रह के बारे में भ्रांति फैलती गई। आधुनिक खोजों ने सिद्ध किया है कि दूरबीन से शनि ग्रह को देखा जाए तो पुराने ख्याल बदल जाएँगे।

ग्रहों के क्रमानुसार सौरमंडल में शनि का स्थान छठे नंबर पर है। यह बृहस्पति और यूरेनस के मध्य सूर्य की परिक्रमा करता है। यह ग्रह अत्यंत मंद गति से सूर्य के चारों ओर करीब तीस वर्ष में एक चक्कर पूरा करता है। शनि का दिन हमारे दिन से छोटा होता है। शनि अत्यंत ठंडा ग्रह है। शनि के वायुमंडल का तापमान शून्य से 150 सेंटीग्रेड नीचे रहता है। अतः यहाँ जीवन असंभव नहीं है।

पुराने समय में सौरमंडल में केवल एक चंद्रमा की जानकारी थी। वैज्ञानिक खोजों के आधार पर अनेक चंद्रमाओं की खोज कर ली गई है। खोजों के बाद अब शनि के उपग्रहों की संख्या सत्रह हो गई है। पूरे सौरमंडल में साठ उपग्रहों की खोज की गई है। शनि का सबसे बड़ा चंद्रमा टाइटन है। यह उपग्रह हमारे चंद्रमा से काफ़ी बड़ा है। टाइटन की अद्भुत विशेषता इसका वायुमंडल है। इस वायुमंडल में मीथेन गैस पर्याप्त मात्रा में है। इस पर मीथेन पानी की तरह मानी जा सकती है। शनि को दूरबीन से देखा जाए तो इसके चारों ओर वलय या घेरे दिखाई देते हैं। इन वलयों या छल्लों से इसकी सुंदरता काफ़ी बढ़ जाती है।

इन वलयों की खोज गैलीलियो ने की थी। नई खोजों के आधार पर सौर मंडल के कई ग्रहों के वलयों की खोज हो चुकी है। शनि जितने सुंदर और स्पष्ट वलय किसी ग्रह के नहीं हैं।

क) प्राचीन काल में शनि को कैसा ग्रह समझा जाता था, इनको क्या प्रिय है?   (2)

ख) पुराने समय में शनि के बारे में क्या भ्राँतियाँ थीं ?आधुनिक खोजों में किस सत्य का पता चलता है?(2)

ग) ग्रहों के क्रमानुसार शनि का कौन- सा स्थान है? इसकी गति और इसके वायुमंडल के तापमान के बारे में बताइए।   (2)

घ) शनि के कितने उपग्रह हैं, इसका सबसे बड़ा उपग्रह कौन- सा है तथा इसकी क्या विशेषता है?   (2)

ङ) 'अत्यंत' तथा 'सुंदरता' शब्दों में प्रयुक्त उपसर्ग एवं प्रत्यय पहचान कर लिखिए।

(1)

च) उपर्युक्त गद्यांश का उचित शीर्षक लिखिए।

(1)

खंड- 'ख'

प्रश्न 2) क) निम्नलिखित शब्दों का वर्ण- विच्छेद कीजिए-   (2)

   अभद्र ,घृणित

ख) निम्नलिखित शब्दों में उचित स्थान पर अनुस्वार का प्रयोग कीजिए-   (1)

संवेदना, संयुक्त

ग) निम्नलिखित शब्दों में उचित स्थान पर अनुनासिक चिन्ह का प्रयोग कीजिए-   (1)

नदिया, मक्खिया

घ) निम्नलिखित शब्दों में उचित स्थान पर नुक्ता लगाइए-   (1)

   फितरत, जहर

प्रश्न 3) क) निम्नलिखित शब्दों में संधि कीजिए-   (2)

   1) उप+ आसना 2) निः+ विघ्न

ख) निम्नलिखित शब्दों का संधि-विच्छेद लिखिए-   (2)

 1)व्यायाम 2)परोपकार

प्रश्न4) क) निम्नलिखित में से किन्हीं दो शब्दों के उपसर्ग तथा मूल शब्द अलग करके लिखिए-   (2)

प्रतिध्वनि, सुरक्षित

ख) निम्नलिखित शब्द में से मूल शब्द व प्रत्यय अलग करके लिखिए-   (1)

जहरीला

ग) निम्नलिखित वाक्यों में उचित स्थान पर विराम- चिह्न लगाइए- (4)

1) श्रीमान जी मुझे घर पर आवश्यक कार्य है

2) क्या आप अपना घर दफ़्तर गंदा रखते हैं

3) गीता का वचन है कर्म करो किंतु फल की इच्छा ना रखो

4)मैं जब पुकार रहा था तुम कहाँ थे

खंड - 'ग'

प्रश्न 5) पठित पाठों के आधार पर किन्हीं तीन प्रश्नों के उत्तर लिखिए-

क) भगवाना अपने परिवार का निर्वाह कैसे करता था? (2)

ख) लेखक ने ऐसा क्यों कहा,'धर्म की मार से ज़्यादा बुद्धि की मार बुरी है।' (2)

ग) कीचड़ के प्रति किसी को सहानुभूति क्यों नहीं होती ? (2)

घ) अतिथि लेखक को किस प्रकार की विदाई देना चाहता था ? (2)

प्रश्न 6) इस पेशे में आमतौर पर स्याह को सफ़ेद और सफ़ेद को स्याह करना होता था। इस पंक्ति का आशय 'शुक्रतारे के समान' पाठ के आधार पर स्पष्ट कीजिए। (5)

अथवा

लोग दूसरों के घर की स्वीटनेस को काटने ना दौड़ें- 'तुम कब जाओगे अतिथि' पाठ के आधार पर स्पष्ट कीजिए ।

प्रश्न 7) निम्नलिखित में से किन्हीं तीन प्रश्नों के उत्तर लिखिए

क) रहीम ने सागर की अपेक्षा पंक जल को धन्य क्यों कहा है ? (2)

ख) 'वसंत का गया पतझड़ और बैसाख का गया भादों को लौटा' से क्या अभिप्राय है? (2)

ग) कवि ने 'अग्निपथ' शब्द किसके प्रतीक स्वरूप प्रयोग किया है और क्यों ? (2)

घ)'आदमीनामा' कविता में मनुष्य के किन रूपों का वर्णन किया है? (2)

प्रश्न 8) 'खुशबू रचते हैं हाथ' कविता में कवि ने किस समस्या की ओर ध्यान आकर्षित किया है?

(5)   अथवा

'एक फूल की चाह' कविता में "कैसे यह अछूत भीतर आया? पकड़ो देखो भाग ना जाए"- पंक्तियाँ समाज में फैली किस बुराई की ओर ध्यान आकर्षित करती हैं? अपने विचार प्रस्तुत कीजिए।

प्रश्न 9)क) हामिद खाँ ने खाने का पैसा लेने से इंकार क्यों कर दिया पाठ के आधार पर हामिद खाँ की चारित्रिक विशेषताएँ लिखिए। (3)

ख) मनुष्य के अनुमान और भावी योजनाएँ कभी-कभी मिथ्या और उल्टी निकलती हैं- स्मृति पाठ के आधार पर स्पष्ट कीजिए।

(3)

खंड- 'घ' (रचनात्मक लेखन)

प्रश्न 11) निम्नलिखित में से किसी एक विषय पर 80-100 शब्दों में एक अनुच्छेद लिखिए- (6)

क) दिशाहीन भारतीय युवा- पीढ़ी

संकेत बिंदुः

-शिक्षित होकर भी दिशाहीन

-रोजगार न मिलना

-हताशा एवं अपराध प्रवृति

-रोजगार व नैतिक शिक्षा की आवश्यकता

ख) ग्लोबल वॉर्मिंग

संकेत बिंदुः

-अर्थ

-ग्लोबल वार्मिंग के प्रभाव

-इससे उत्पन्न खतरे

-बचाव हेतु उपाय

ग) प्रतियोगिताः आज की आवश्यकता

-प्रतियोगिताओं का इतिहास

-विभिन्न प्रकार की प्रतियोगिताएँ

-उनके अच्छे बुरे परिणाम

-इन की आवश्यकता

प्रश्न 12) आपकी कॉलोनी में ग्रीष्मावकाश में अभिनय कक्षाएँ आयोजित की जा रही हैं। अपने मित्र को भी उसमें भाग लेने के लिए उत्साहित व आमंत्रित करते हुए पत्र लिखिए।

(5)   अथवा

साक्षरता अभियान में अपने योगदान का वर्णन करते हुए पिताजी को पत्र लिखिए।

प्रश्न 13) ' रटंत विद्या को ना अपनाएँ'- विषय पर माँ और बेटी के मध्य होने वाली बातचीत को संवाद के रूप में लिखिए।

(5)

अथवा

क्रिकेट मैच के परिणाम के बारे में दर्शकों के मध्य होने वाली बातचीत को संवाद- रूप में लिखिए।

प्रश्न 14) 'मॉडर्न आइसक्रीम' के लिए 20 से 25 शब्दों में आकर्षक विज्ञापन तैयार कीजिए।

(5)   अथवा

आप एक नया मोबाइल शोरूम खोलने जा रहे हैं ,इसके लिए एक विज्ञापन तैयार कीजिए।

प्रश्न 15) नीचे दिए गए चित्र को देखकर मन में उभरे विचारों को 25-30 शब्दों में लिखिए-   **(5)**

अथवा

Time: 3 hrs M.M. : 80
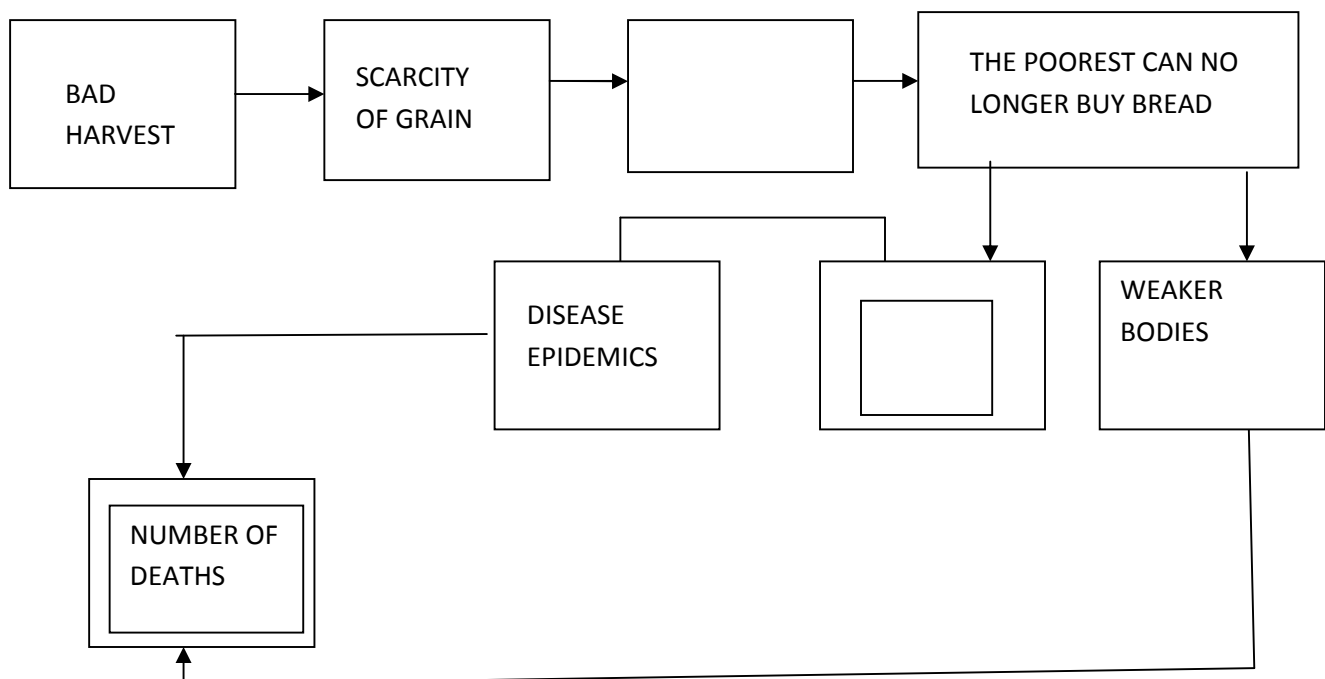
General Instructions

- (i)   Q 1 to Q 20 consist of 1 marks each.
- (ii)   Q2 1 to Q 28 consist of 3 marks each.
- (iii)   Q 29 to Q 34 consist of 5 marks each.
- (iv)   Q 35 and Q 36 are map questions of 3 marks each.
- (v)   Map should be pasted in the answer sheet.

Q1.Mention any one effect of October Revolution of 1917?

Q2.The following picture represent_____

Q3.Fillthe flow diagram with the appropriate terms

Q4.Define the term Scientific Farming.

Q5.Arrange in sequence

a) The Indian forest Act was enacted
b) The Imperial forest Research Institute was setup at Dehradun.
c) Dietrich Brandis became the first Inspector General of forest in India.
d) The Indian forest Act was set up.

Q6.Match the following and choose the correct option.

A	B
1.Robert Owen	(a)April Theses
2.Tsar Nicholas II	(b)New Harmony
3.Bolshevik Party	(c)Emperor of Russia
4.Lenin	(d)Russian Communist Party

(a)1-b,2-c,3-d,4-a

(b) 1-c,2-b,3-a,4-d

(c)1-d,2-c,3-b,4-9

(d)1-a,2-b,3-c,4-d

Q7.State whether True or False

In Stalin's collectivization programme , all peasants were forced to cultivate in collective farms_____.

Q8.Choose the right answer from the four alternative given below

(1)The eastern-most longitude of India is:

a) $97^o25'E$
b) $68^o7'E$
c) $77^o6'E$
d) $82^o32'E$

Q9.Match the Column

	A	B
1.Lakshadweep Island	Port Blair	Coral
2.Andaman and Nicobar	Kavaratti	An elevated portion of submarine mountains

Q10.Correct the following statement:

1. Any elevated area such as a mountain or an upland separates two drainage basins such an upland is known as drainage basin.

OR

Fill in the blanks

1._____ river flows towards the most in a rift valley formed due to faulting.

Q11.Match the following and choose the correct option:

1.Pakistan	i)Zanu P.F
2.China	ii)Military Dictator
3.Zimbabwe	iii)Communist Party

     1) 1-ii,2-iii,3-i
     2) 1-iii,2-I,3-ii
     3) 1-I,2-ii,3-iii

Q12.Give any one feature of a Democratic Government.

Q13.Number of seats reserved for the Schedule caste in the Lok Sabha is_____ and for the Scheduled Tribe is_____

Q14.Which right is being violated in the given cartoon?

Q15.The Country which has the largest single concentration of the poor people in the world is-

a)China   b) Pakistan   c) India   d) Nepal

Q16.Match the following:

Column I	Column II	Column III
A)Prime Minister Rozgar Yozana	1.Launched in 1999	i)Provides 100 days of assured employment every year to every rural household
B)National Rural Employment Guarantee Act	2.Launched in 2000	ii)Basic services such as primary health, primary education rural drinking water and electrification
C)Pradhan Manri Gramodaya Yozana	3.Launched in 2005	iii)The aim of the programme is to create self employment opportunities for educated youth unemployed in rural areas and small towns
D)Swarnajayanti Gram Swarozgar Yojana	4.Launched in 1993	iv)Aims at bringing the assisted poor families above the poverty line by self help groups.

Q17.The main source of irrigation at Palampur is------------

a)Tubewells   b)Wells   c)Canal   d)None of these

Q18. Give one example each of fixed capital and working capital.

Q19. How did Green Revolution benefit the Indian farmers?

Q20. Even though Japan does not have any natural resources butit is one of the technological leading countries of the world because_____

Q21."The period from 1793 to 1794 is referred to an the "Reign of Terror". Explain.

Q22.Explain any three causes of deforestation in India during the colonial period.

                OR

Give reason why Indian farmers were reluctant to grow opium.

Q23.Distinguish between Evergreen and Deciduous forest.

Q24."India constitution was drawn up under very difficult circumstances".Explain

                OR

Analyze any three reasons why we need a constitution?

Q25.Explain any three challenges to free and fair elections?

Q26."Unemployment leads to wastage of man power resource". Do you agree? Explain.

Q27"Poverty is a curse upon humanity". Explain.

                OR

How is vulnerability to poverty measured?

Q28.How does Public Distribution system ensure food security in India? Explain.

Q29.Examine the kind of racial segregation practiced by Hitler.

                OR

Analyses the status of women in Nazi Germany.

Q30.Extract

A striking feature of the hot weather season is the 'Loo'.These are Strong,Gusty,Hot ,Dry winds blowing during the day over the north and the North Western India. Sometimes they even continue until late in the evening. Direct exposure to these winds may even prove to be fatal. Dust Storms are very common during the month of May in Northern India. These Storms bring temporary relief as they lower the temperature and may bring light rain and cool breeze. This is also the reason for localized thunderstorms, associate with violent winds, torrential downpours, often accompanied by hail. In West Bengal these storms are known as' Kaal Baisakhi' Calamity for the month of Baisakh.

1) Mention the time period of Summer season?

2) Write the features of hot weather season?

3) Define Mango Showers. In which part of India do they occur.

Q31.Explain any five features of National Population Policy 2000?

Q32. Describe the powers of President of India.

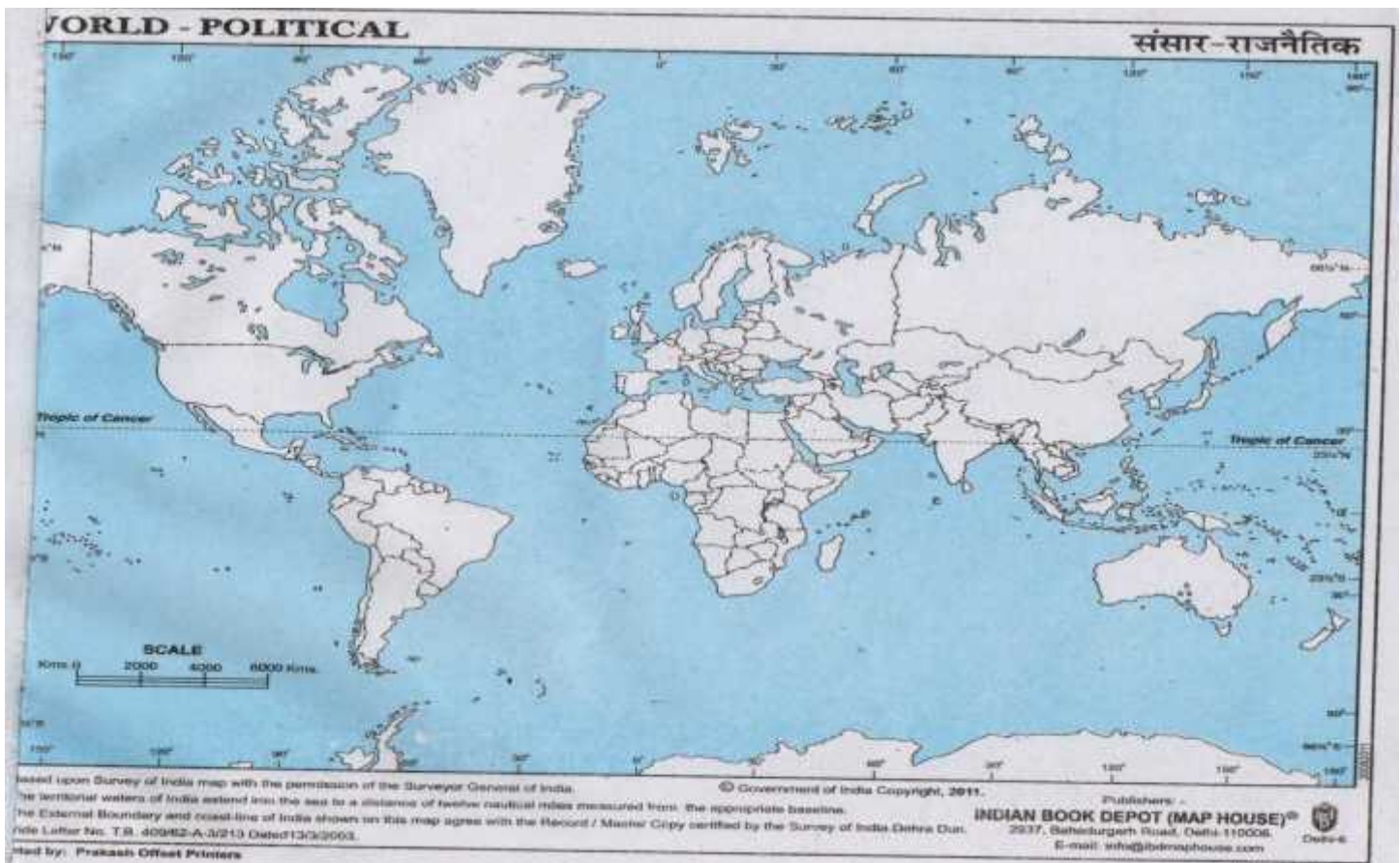Q33."Rights are necessary for the very sustenance of democracy "Justify.

    OR

"Right to Constitutional Remedies is the heart and soul of the Indian Constitution "Explain.

Q34. What is Buffer Stock? Why was it created by the government.

Q35.On the given Outline Political Map of the World, Locate and Label

A) Any One Allied & Axis Power each.   (2)

B)On the Outline Political Map of India, Locate and Label the following: (4)

1. The Place situated on three Seas.
2. K2
3. Pulicat Lake
4. State with highest sex ratio
5. Manas
6. Jodhpur

Class : IX Science
Annual Examination Sample Paper (2019-2020)
Blue Print

S.No	Name of the chapter	VSA, MCQ, Assertion-Reason Type Questions (1 mark)	Short-Answer type Questions (3 marks)	Long- Answer Type Questions (5 marks)	Total
1	Matter in our surroundings	1(2)	3(1)	-	5(3)
2	Is Matter around us pure	-	-	5(1)	5(1)
3	Atoms and Molecules	1(1)	3(2)	-	7(3)
4	Structure of Atom	1(1)	-	5(1)	6(2)
5	The Fundamental Unit of Life	1(1)	3(1)	-	4(2)
6	Tissues	-	-	5(1)	5(1)
7	Diversity in living organisms	-	-	5(1)	5(1)
8	Motion	1(2)	3(1)	-	5(3)
9	Force and Laws of Motion	1(2)	3(1)	-	5(3)
10	Gravitation	1(1)	-	5(1)	6(2)
11	Work and Energy	1(2)	3(1)	-	5(3)
12	Sound	1(1)	-	5(1)	6(2)
13	Why do we fall ill	1(4)	3(1)	-	7(5)
14	Natural Resources	1(3)	3(1)	-	6(4)
15	Improvement in Food Resources	-	3(1)	-	3(1)
	TOTAL				80

Note: ( ) denotes number of questions.

Total number of questions is 30. Q3 and Q4 contain 4 sub-parts.

Class : IX Science
Annual Examination Sample Paper (2019-2020)

TIME: 3 Hrs.   M.M.: 80

General Instructions
1. The question paper comprises of 3 sections-A, B and C. Attempt all the sections.
2. All questions are compulsory.
3. Internal choice is given in each section.
4. All questions in section A are 1-mark questions comprising MCQ, VSA type and assertion-reason type questions. They are to be answered in one word or in one sentence.
5. All questions in section B are 3-mark, short- answer type questions. These are to be answered in about 50-60 words each.
6. All questions in section C are 5-mark, long- answer type questions. These are to be answered in about 80-90 words each.
7. This question paper consists of a total of 30 questions.

SECTION A

1. Rashi took 4 moles of CO_2 in container 'A' and 120 gram of CO_2 in container 'B'. Which of the two containers is heavier?   1

2. Write one application of Co-60 isotope in medical field.   1

3.Answer question numbers 3(a) to 3(c) on the basis of your understanding of the following paragraph and the related studied concepts.

Chandrayaan-II is the second lunar exploration mission developed by the Indian Space Research Organisation(ISRO) after Chandrayaan -1. It was launched on 22nd July 2019 from Satish Dhawan space centre. It consists of a lunar orbiter, Vikram lander and the pragyan lunar rover ,all of which were developed in India. The pragyaan rover is a 6 wheeled vehicle with a mass of 27 kg that run on 50 W of solar power and can travel up to 500 m at a speed of 1 cm per sec. The rover communicates directly with the lander.

3(a) State the principle involved in launching of Chandrayaan II.   1
3(b) What is the work done by gravity on the man moving on the horizontal surface.   1
3(c) The mass of Pragyan Rover is 27 kg on earth. What is its weight on surface of moon.   1
3(d) Based on the data given in the table below, what type of motion, uniform or non-uniform is exhibited by Chandrayaan II?   1

Date	Event Scheduled during (IST)	Targeted Orbit (KM)
24.07.2019	14:00 - 15:30	230 x 45162
26.07.2019	01:00 - 02:00	260 x 54689
29.07.2019	14:30 - 15:30	201 x 71000
02.08.2019	14:00 - 15:00	248 x 90229
06.08.2019	14:30 - 15:30	221 x 143565
	Trans Lunar Insertion	
14.08.2019	03:00 - 04:00	266 x 413623

4. Question numbers 4(a)-4(d) are based on the table given below-

Table A

	Platelet Count
Doctor advice needed	Less than 1 lakh
Good	1-1.5 lakh
Excellent	1.5-4 lakh

Table B

Blood report of persons showing platelet count

Person X	Person Y
> 30,000	4 lakh

Refer to table B showing the blood report of platelet count of person X and Y and answer the following questions-
4(a) Identify the person having less platelet count.   1
4 (b) Name the disease he is suffering from and the pathogen responsible for it.   1
4(c) Give two general ways to prevent the disease in question.   1
4(d) Name any other disease spread by the same vector.   1

5. A car is accelerated on a levelled road and acquires a velocity 4 times of its initial velocity. During this process, the potential energy of the car:
(a) does not change
(b) becomes twice that of initial potential energy
(c) becomes 4 times that of initial potential energy
(d) becomes 16 times that of initial potential energy
OR
A girl weighing 400 N climbs a vertical ladder. If the value of g be 10 m/s^2, the work done by her after climbing 2 m will be:
(a) 200 J   (b) 800 J
(c) 8000 J   (d) 2000 J   1

6. Which of the following sound frequencies cannot be heard by a human ear?
(a) 10 Hz   (b) 100 Hz
(c) 10000 Hz   (d) 20000 Hz   1

7. The unit of measuring momentum of a moving body is:
 (a) m/s   (b) kg.m s^{-1} (c) kg.m s^{-2} (d) Nm^2 kg^{-2} 1

8. A student observed an onion peel slide and cheek cell slide under a microscope. Identify and name the part present only in onion peel.   Or

A mother cell of an organism has 48 chromosomes, what will be the number of chromosomes in the egg cell?   1

9. Top soil contains the following:
a) Humus and living organisms only
b) Humus and living soil particles only
c) Humus, living organisms and plants
d) Humus, living organisms and particles.

10. If there were no atmosphere around the earth, the temperature of the earth will

(a) increase

(b) go on decreasing

(c) increase during day and decrease during night

(d) be unaffected   1

11. Soil Erosion can be prevented by

a.   raising forests
b.   deforestation

c.   excessive use of fertilizers

d.   overgrazing by animals.   1

12. Which of the following has highest inter-particle forces of attraction?
(a) Water   (b) NaCl   (c) CO_2 (d) Steam
                                                                OR
The fusion is the process in which:
(a) Liquid changes into gas
(b) Solid changes into liquid
(c) Solid changes into gas
(d) Gas changes into soild   1

For question numbers 13 and 14, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below
i) Both A and R are true and R is correct explanation of the assertion.
ii) Both A and R are true but R is not the correct explanation of the assertion.
iii) A is true but R is false.
iv) A is false but R is true.

13. Assertion : Oxygen gas is supplied to hospitals in cylinders.

Reason: Gases diffuse faster than liquids.   1

14. Assertion: The velocity of a body is a scalar quantity.
Reason: A vector quantity has both magnitude and direction.   1

SECTION B

15. Define atomicity. What is the atomicity of CO_2, NH_3, S_8 and CH_4?   3

16. Calculate the number of moles present in the following:

   a.   46 g of Na
   b.   12.044 x 10^{23} atoms of carbon

<div align="center">OR</div>

   i.   State the law of constant proportions.
   ii.   Define atomic mass unit.
   iii.   Write the chemical formula of calcium nitride.   3

17. (i) Define sublimation.

(ii) How does evaporation of a liquid cause cooling?   3

18.(a) Why majority of children in many parts of India are already immune to hepatitis A by
   the time they are five years old?

   (b) Name the causal organism of the following diseases-

             Kala azar and sleeping sickness
   (c) Write two methods of transmission of AIDS.

<div align="center">OR</div>

   (a) Why antibiotics do not work against viruses?
   (b) Write the point of entry and the target organs of the following diseases--
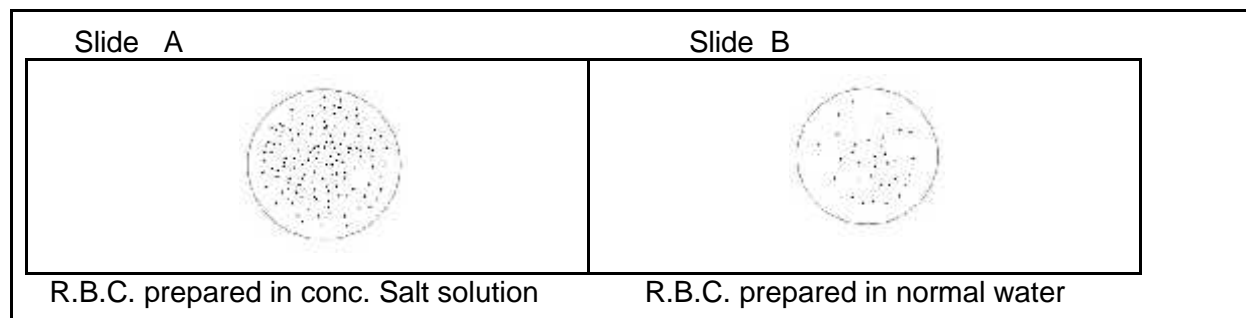   tuberculosis and typhoid   3

 19.(a) Define biogeochemical cycle.
    (b) Draw Oxygen cycle in an ecosystem.   3

 20. Give reasons--
  (a) legumes are desirable during crop rotation.
  (b) feed additives containing micronutrients are given to dairy animals.
  (c) floor of the cattle shed needs to be sloping.   3

21(a) to (c) are based on the situation given below-
Observe the slide and answer the following questions--

Slide A	Slide B
R.B.C. prepared in conc. Salt solution	R.B.C. prepared in normal water

(a) What will happen to RBC in slides A and B?
(b) Name and define the basic phenomenon involved in above situations.
(c)   Define the type of solution in which slide A is placed.

3

22.(a) State Newton's II Law of Motion.

(b) Deduce Newton's First Law of Motion from Newton's Second Law of Motion.   3

23..An insect moves along a circular path of radius 14 cm with a constant speed. It takes 1 min 6 sec to move from a point on the path to the diametrically opposite point. Find,
(a) the distance covered
(b) average speed
(c) average velocity?

3

24.A body of mass 5 kg is thrown vertically upwards with the speed of 10 m/s. What is its kinetic energy when it is thrown? Find its potential energy when it reaches the highest point. Also find   the maximum height attained by the body. (g=10m/s^2)

OR

Water is falling on the blades of a turbine at a rate of 8X10^2 kg/min, the height of fall is 50 m. Calculate the power given to the turbine. (g=10m/s^2)   3

SECTION C

25. (i) State the principle involved in each of the following separation techniques:

a)Evaporation

b) Centrifugation

c) Separating funnel

d) Distillation

(ii) Explain the method used to separate oxygen gas from air.
(2+3)

OR

i. 40 g of salt is dissolved in 300 g of water. Calculate the concentration of solution in mass percentage.

ii. Differentiate between a true solution, suspension and colloid on the basis of filtration and Tyndall effect. 5

26. (i) Write three observations and three conclusions of Rutherford's alpha particle scattering experiment.

(ii) Write the electronic configuration of the following species whose atomic numbers are given:

   1. P (atomic number=15)
   2. O^{2-} (atomic number=8)
   3. N (atomic number=7)
   4. Na^+ (atomic number=11) 5

27. (a) Who introduced the system of nomenclature. Give any two conventions of writing the scientific names.
   (b) Give one identifying feature of each of the following- protochordata and cyclostomata
   3+2=5

28. (a) Classify the type of simple permanent tissue on the basis of their cell wall
   (b) Draw a labelled sectional view of phloem tissue.

OR

Differentiate between striated, unstriated and Cardiac muscles on the basis of their structure and location in the body. Draw their diagrams also. 5

29. (a) A girl is sitting in the middle of a park of dimensions 12m X 12m. On the left side of it there is a building adjoining the park and on right side of the park, there is a road adjoining the park. A sound is produced on the road by a cracker. Is it possible for the girl to hear the echo of this sound? Give reason to justify your answer. Given that speed of sound in air is 344 m/s.
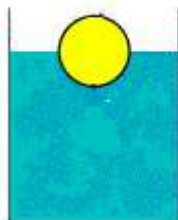(b) A whale sends out its sounds and uses those reflected sound waves to determine where the fish is present and in what direction it is swimming. Name the type of sound waves produced by whales and write its frequency range?
(c) Define the type of waves produced in case of ripples in water? 5

30. (a) State principle on which lactometer is based?
(b) Mark the direction of weight of body and up thrust acting on it, in the following diagram and state the condition for object to float or sink, when placed on surface of water.

(c) Deduce the expression of acceleration due to gravity from II law of motion.   5

OR

(a) Write any two differences between mass and weight.

(b) A ball is dropped from the top of a tower 40 m high. What is its velocity when it has covered 20 m? What would be its velocity when it hits the ground?

Class IX

Mathematics Sample Question Paper 2019-20

Time Allowed: 3 Hours   **Max. Marks: 80**

General Instructions:

a. All the questions are compulsory.
b. The question paper consists of 40 questions divided into four sections A, B, C and D. Section A comprises of 20 questions of 1 mark each, Section B comprises of 6 questions of 2 marks each, Section C comprises of 8 questions of 3 marks each and Section D comprises 6 questions of 4 marks each.
c. There is no overall choice. However, an internal choice has been provided in two questions of 1 mark each, two questions of 2 marks each, three questions of 3 marks each, and three questions of 4 marks each. You have to attempt only one of the alternatives in such questions..
d. Use of calculators is not permitted.

Section-A

Q1-10 are multiple choice questions. Select the most appropriate answer from the given options.

1. Decimal Expansion of a rational number cannot be
   a. non terminating
   b. non terminating and recurring
   c. Terminating
   d. non terminating and non recurring

2. Given a polynomial p(t)= $t^4 - t^3 + t^2 + 6$,then p(-1) is
   a. 6   b.9   c.3   d.-1

3. If the difference between two complementary angles is 10^0 , then the angles are
   a. $50^0 , 60^0$ b. $50^0 , 40^0$ c. $80^0 , 10^0$ d. $35^0, 45^0$

4. Two sides of a triangle are of lengths 2.4cm and 1.5cm. The length of the third side of the triangle cannot be
   a. 3.6cm   b.3.8cm   c.4.1cm   d.3.4cm

5. The point which lies on the y-axis at a distance of 5 units in the negative direction of y-axis is
   a. (0,5)   b.(5,0)   c.(0,-5)   d.(-5,0)

6. Two parallelograms ABCD and EBCF are on the same base BC and between same parallels BC and AF. If ar.(EBCF) = 15sq.cm, then area (ABCD) is
   a. 30 sq.cm   b. 7.5 sq.cm   c. 15 sq.cm   d. 5 sq.cm

7. If the height and radius of a cone of volume V are doubled then the volume of the cone becomes
   a. 3V   b. 4V   c. 6V   d. 8V

8. The length of each side of an equilateral triangle having an area of 9 $\sqrt{3}$ cm^2 is

a. 8cm   b. 36cm   c. 4cm   d. 6cm

9. Median of the distribution 5,9,8,6,3,5,7,12,15 is
   a. 3   b. 6   c. 5   d. 7

OR

Mode of the data 4,6,9,6,4,2,4,8,6,4,3,4,6 is
   a. 6   b. 4   c. 3   d. 2

10. In the year 2010, during the rainy season, Out of 90 days , it was observed that it rained 20 days only.Then the probability that it did not rain is
   a. $\frac{2}{9}$ b. $\frac{9}{2}$ c. $\frac{7}{9}$ d. $\frac{9}{7}$

(Q11-Q15) Fill in the blanks :

11. The coefficient of x in the expansion of (x+3)^3 is _____.
12. If the sum of two angles of a triangle is equal to its third angle, then the measure of the third angle is_____.
13. A chord is at a distance of 8cm from the centre of a circle of radius 17cm. The length of the chord is_____.
14. PQRS is a parallelogram. If its diagonals are equal, the value of $\angle$SPQ=_____.
15. In the frequency distribution, the class mark of a class is 10 and the width of the class is 6. The lower limit of the class _____.

(Q16-Q20) Answer the following:

16. At what point the graph of the linear equation $x + y = 5$ cuts the x-axis?
17. It is given that △ABC≅△FDE and AB=6cm, $\angle$B=80^0 and $\angle$A=40^0. What is the length of side DF of △FDE and its $\angle$E?
18. Find the ratio of the surface area and volume of a sphere of unit radius.
19. The dimensions of a cuboid are 3cm, 2cm, 1cm. Find the length of the diagonal of the cuboid.

OR

If the slant height of a cone is 34cm and base diameter is 32cm, then find the height of the cone.
20. Find the mean of prime numbers lying between 30 and 40.

SECTION B

21. If $x^{101} + 101$ is divided by $x + 1$, then find the remainder.

OR

     Find the value of 249^2- 248^2
22. A cuboid has total surface area of $40m^2$ and its lateral surface area is $26m^2$. Find the area of its base.
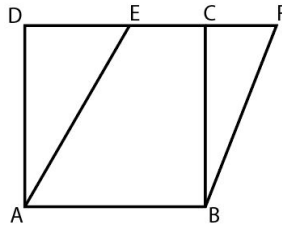
<div align="center">OR</div>

A cube of side 4cm contains a sphere touching its sides. Find the volume of the gap in between.

23. A kitchen garden is triangular in shape with sides 6m, 8m, 10m. Its owner wants to divide her field into four congruent triangles to grow four different types of flowers on them. Find the:

      i) maximum dimensions of the congruent triangles in which the field can be divided

      ii) area of each triangle

24. In the given figure, if ABCD and ABFE are parallelograms and ar(quadrilateral EABC) = $17cm^2$, ar(Ilgm ABCD) = $25cm^2$, then find area of $\triangle$ BCF.

25. It's important to follow traffic rules and let's make Delhi safe to travel - for each and every one of us. Whether from Delhi, NCR, other Metro Cities - traffic fines now remains same across all cities of India.

On Sunday, at Lajpat Nagar crossing, out of 100 people, 9 people jumped traffic lights. Find the probability of people not jumping the traffic lights.

26. The points A(a,b) and B(b,0) lie on the linear equation $y = 8x + 3$.

      i) Find the values of a and b.

      ii) Is (2,0) a solution of $y = 8x + 3$?
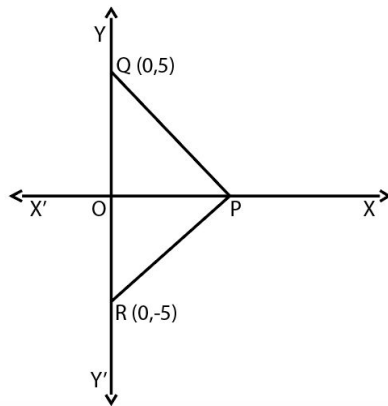
<div align="center">**SECTION C**</div>

27. If $4^{2x-1} - 16^{x-1} = 384$, find the value of x.

28. Find the value of $x^2 + \frac{1}{x^2}$, if $x - \frac{1}{x} = \sqrt{3}$.

29. Draw the graph of the linear equation $x + 2y = 8$ and find the point on the graph where its abscissa is twice the value of the ordinate.

30. In the given figure, $\triangle$PQR is an equilateral triangle with coordinates of Q and R as (0,5) and (0, -5) respectively. Find the coordinates of vertex P.

OR

Plot the following points in the coordinate plane A(-4,4), B(-6,0), C(-4,-4), D(-2,0). Name the figure formed by joining the points A, B, C and D and also find its area.

31. To mark India's Independence Day, a ceremony in Kashmir was organised by hoisting the national flag and singing of patriotic songs along with the exchange of sweets and greetings. During the lunch break, 21 students shared an ice-cream brick.

i) If each one takes a hemispherical scoop of ice-cream of 4 cm radius, find the volume of ice cream taken by each one of them.

ii) If the dimensions of ice-cream brick are 16cm x 8cm x 22 cm , find the volume of ice-cream brick.
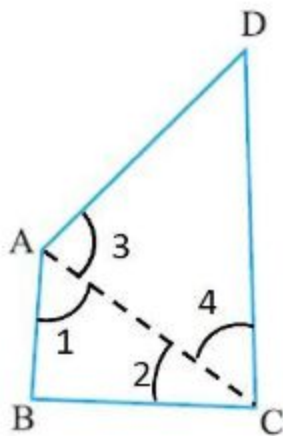
iii) How much volume of ice cream is left?

32. Construct a triangle ABC in which BC = 4.5cm, $\angle$B = 45^0 and AB - AC = 2.5cm.

OR

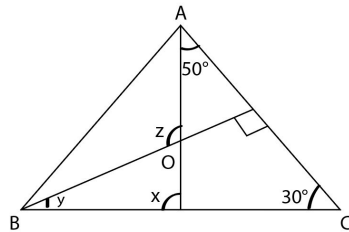Construct a triangle ABC in which BC = 5cm, $\angle$B = 75^0 and AB + AC = 9 cm.

33. AB and CD are respectively the smallest and longest sides of a quadrilateral ABCD. Show that $\angle$B > $\angle$D and $\angle$A > $\angle$C.

OR

ABC and DBC are two isosceles triangles on the same base BC. Show that $\angle ABD = \angle ACD$.

34.

Find x, y and z.

SECTION D

35. Find the value of a and b : $\quad \frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = a + \frac{7}{11}\sqrt{5}\,b$

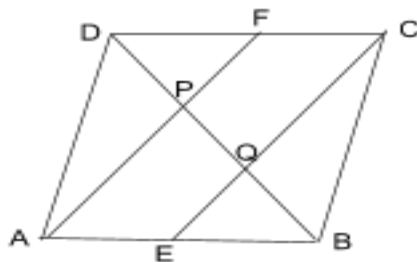36. Factorise : $\quad 2x^3 - 3x^2 - 17x + 30$

OR

If $a + b + c = 0$ then prove that $\frac{(b+c)^2}{3bc} + \frac{(c+a)^2}{3ac} + \frac{(a+b)^2}{3ab} = 1$

37. Prove that the angle bisectors of a parallelogram form a rectangle.

OR

Prove that the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

38. In a parallelogram ABCD, E and F are the mid points of sides AB and CD respectively. Show that the line segments AF and EC trisect the diagonal BD.

39. Draw a histogram and frequency polygon for the following data

Marks	0-20	20-40	40-60	60-80	80-100	Total
Number of Students	10	15	40	45	40	150

(i) How many students got marks more than or equal to 60?
(ii) How many students got marks less than 40?

OR

The following are the scores of two groups of class IX students in the test of Hindi:

Scores	Group A	Group B
39-42	6	3
35-38	11	4
31-34	15	5
27-30	18	10
23-26	23	15
19-22	15	14
15-18	12	9
TOTAL	100	60

Construct a frequency polygon for each of these groups on the same graph.

40. The perimeter of a triangle is 50 cm. One side of a triangle is 4cm longer than the smaller side and third side is 6cm less than twice the smaller side. Find the area of the triangle.