Subject: English   Assignment No. : 6
Allotment Date: 15 November 2022

| S. No.	QUESTIONS	MARKS	NATURE
1	**SECTION A- READING [10M]** Read the passage carefully given below. [ANY FIVE] All around me I see people romanticising the old times. The old times were good, they were peaceful, the old times were happy they were simpler. My mother would tell tales of the old times when world was simpler people were kinder, there was no social platform to make you feel bad about yourself the technology wasn't sucking everyone in. People in old times still appreciated the nature around them, children played outside greed wasn't so blunt, cities were not overpopulated, and skirts were just a fashion, not a subject of debate. She intricately painted a picture of a world that was much better than the one I lived in. Sitting on the counter- top of our marbled kitchen slap, I listened avidly to many stories of her 'old times'. That was a good time too. It's amazingly bemusing how time just passes us by, it flies for sure, but we crawl in the moment, burdened by the yearning for the past never realising that this moment is all we have and it is soon going to wither. By the time fog clears, we forget the lesson we have learned. We again yearn for the simpler times but in the world that is so fast paced, how is one supposed to hold onto a moment anyway? I think you just need to live in it. It is destined to become a memory so why not make sure that your old times were good? I still remember my grandparents' house in the capital. It had a long balcony that faced a park a tall banyan tree stood at a distance towering even the third floor of the nearest flats. I have many good memories from that time, but, and this is peculiar. curiously I remember the smells the most vividly sunlight against the leaves on a summer afternoon, the chilly breeze of a spring's evening, the dairy shop and the milk canister and even the token machines that dispelled milk, my grandfather's cigarette's smoke, the main park after it had rained, the markets in the evening, the smell of certain houses we went past when my grandfather took me out for a walk all these smells constitute my childhood. I always loved the idea of going back to those "old times". That was until one day I smelled the similar smells around my own house and noticed that there was a similar tall tree, not banyan though towering even the third floor of the flats in front of ours, its leaves rusting beautifully along the breeze of a spring evening. The epiphany tip-toed right into my heart. How have I not noticed the tree before? I have been letting time pass me by again. At least this time, I'm	5M	Understanding

aware to value it.
Based on your understanding of the passage, answer any five questions from the six given below.

1. What does the writer mean by " burdened by the yearning for the past" ?
2. Rewrite the following sentence by replacing the underlined phrase with a word that means the same from lines 5 to 15. I experienced a <u>sudden realization</u> that girls were always treated differently than boys.
3. Which elements added to the authors olfactory senses (sense of smell) during her stays in her grandparents' house?
4. Why has the writer stressed upon the fact that old times were good?
5. "By the time fog clears, we forget the lesson we have learned" what lesson do we learn from this statement?
6. How does the writer justify the statement that he/she had never noticed the tree before?

| 2 | **Read the passage given below.** | **5M** | Analytical |

Read the passage given below.
The graph below illustrates India's Age Distribution in 2018.

INDIA AGE BREAKDOWN (2018)
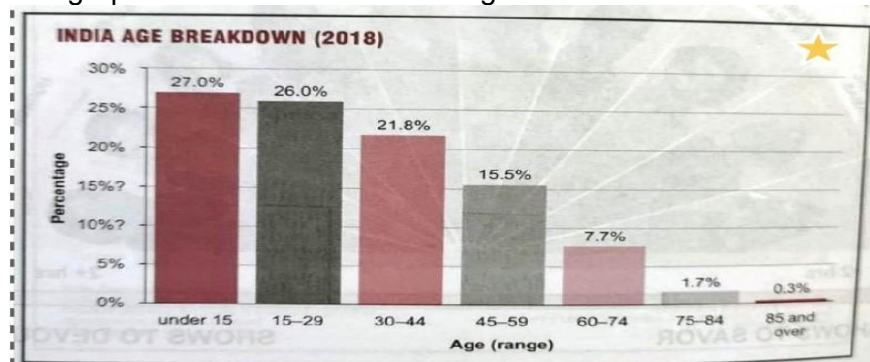
The above graph illustrates India's age breakdown in the year 2018. It extends from under 15 age group to 85 and over, skims over seven different age ranges. Doing so, the graph provides a sneak into India's age distribution for the given year. It is well known that India is a young and able nation, a country that provided skilled personal to many first- world countries and top tech and other wise industries. But how old age is this rich and dense population? Apparently, under 15 age group is the one with the highest number of national, at 27%. Whereas the range of 15-29 is the second-highest as it constitutes 26% of the nation's population. Next up is the range of 30-44 which accounts for 21.8% of the total population. Together these three groups made up for more than half of the population of India. The age group off 45- 59 years had 15.5% nationals fall into it. While there were only 7.7% of 60- 74 years old people. Only 1.7% of the remaining individuals shared the age range of 75- 84 and the rest 0.3% were either 85 or above.
Looking at the data it is clear that most of the population constitutes of teens and young adults. This could provide India a scope for growth led by the young generation in the coming years.
Having more youth in the working class in the coming years could propel India's growth upwards and help it harness the mentality and strength of the youngsters, giving the nation and it's working a

	fresher perspective it needs to catch up with the first world nations. On the basis of your understanding of the passage, answer ANY FIVE questions from the six given below. 1. What India needs that the younger population could provide it. 2. Comment on the aspect that India's young population ensures its growth in the future. 3. Justify the statement "….. it needs to catch up with the first world nations." 4. According to the above passage, what has leaked out of India into the First World countries? 5. According to the given data, there are more teen and young adults in the population. How does evidence from the graph support this statement? 6. What fact do you understand about India's population by the given graph?		
3	**SECTION-B WRITING & GRAMMAR [10M]** You are Raman/Anshika of Gandhi Nagar, Gujarat. You saw an advertisement about a course in spoken English, published in " The Times of India" by Super Institute, Gujarat. You wish to join the course. Write a letter to the advertiser, inquiring about the details you require.	**5M**	Communication
4	The following paragraph has not been edited. There is one error in each line. Identify the error and write its correction against the correct blank number. Error Correction Service to mankind are service to God. There is E.g. are is not an single religion which does not preach the (a) _____ ideal of service to humanity. What is directly give to man (b)___ is directly give to God. One dare remember this (c) ___	**3M**	Critical Thinking
5	Read the conversation between Ankit and John and complete the passage that follows. Ankit: John why didn't you come to school yesterday? John: I was not well. Ankit: What happened to you? John: I was running high fever. I am fine now. Ankit: Don't exert yourself today. Ankit inquired John (a) _____ . John replied that he was not well. Ankit again inquired what had happened to him. John explained that he had been running high fever and he was fine then. Ankit advised not (b)_____.	**2M**	Interdisciplinary
6	**SECTION C- LITERATURE [20M]** **Answer the following questions in 40-50 words: [ANY SIX]** 1. How did bakers become synonymous with celebrations and occasions in Goa? 2. What message might the Buddha's story hold for those who are in positions of power and privilege? 3. Explain: "the mania of owning things" [Poem- Animals] 4. What do you think of Oliver Lutkins as a person? Give examples from the text? 5. What did Ebright learn in the county science fair?	**2x6=12**	Evaluation

	6. You've read the quote: 'A teacher affects eternity. He can never tell where his influences tops.' In the context of this statement, comment on the role of Bholi's teacher in her life. 7. The dragon was called a 'cowardly dragon'. Why?		
7	**Answer the following questions in 100-120 words: [ANY TWO]** 1. M. Loisel was a loving husband. He tried every method of finding the necklace but to no avail. He did't blame Matilda for the loss even after that. Imagine yourself as the writer of the story "The Necklace" and write an imaginary conversation between M. Loisel and Matilda if Loisel gets angry on her at her carelessness for losing the necklace. 2. The principal 'forgive and forget', helps a lot in maintaining cordial relations with our neighbours. Do you think Anton Chekov conveys this message in the play " The Proposal"? 3. 'Dowry is a negation of the girl's dignity. Discuss with reference to the story 'Bholi'.	**2x4=8**	HOT

Subject: Hindi   **Assignment No. : 6**

Allotment Date: 15 November 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	(क) पावस ऋतु में प्रकृति में कौन-कौन से परिवर्तन आते हैं? कविता के आधार पर स्पष्ट कीजिए। (ख) 'सर हिमालय का हमने न झुकने दिया', इस पंक्ति में हिमालय किस बात का प्रतीक है?	2 2	Information
2	मनुष्यता' कविता के माध्यम से कवि क्या संदेश देना चाहता है?	4	Analytical Skill
3	निम्नलिखित प्रश्नों के उत्तर दीजिए (क) हरिहर काका के मामले में गाँववालों की क्या राय थी और उसके क्या कारण थे? (ख) टोपी शुक्ला पाठ के आधार पर बताइए कि टोपी को किन-किन से अपनापन मिला? क्या आज के समय में भी ऐसा अपनेपन की प्राप्ति संभव है?	 3 3	Evaluation

	निम्नलिखित में से किसी एक विषय पर संकेत बिंदुओं के आधार पर 150 शब्दों में अनुच्छेद लिखिए। (क)- सबको भाए मधुर वाणी संकेत बिंदु • मधुर वाणी सबको प्रिय • मधुर वाणी एक औषधि • मधुरवाणी का प्रभाव • मधुर वाणी की प्रासंगिकता। अथवा (ख) बच्चों की शिक्षा में माता-पिता की भूमिका संकेत बिंदु • शिक्षा और माता-पिता • शिक्षा की महत्ता • उत्तरदायित्व • शिक्षाविहीन नर पशु समान।	6	Critical Thinking and Problem Solving
4	(क) अपने विद्यालय के प्रधानाचार्य को प्रार्थना पत्र लिखिए जिसमें कंप्यूटर की महत्ता बताते हुए कंप्यूटर शिक्षण की व्यवस्था करवाने का अनुरोध किया गया हो। अथवा (ख) आपके विद्यालय में जोनल खेल प्रतियोगिता आयोजित की जानी है। इसके लिए आप अन्य खिलाड़ियों के साथ विद्यालय बंद होने के बाद इसी खेल-परिसर में अभ्यास करना चाहते हैं। इसकी अनुमति प्राप्त करने के लिए अपने विद्यालय के प्रधानाचार्य को प्रार्थना पत्र लिखिए।	5	Communic ation Skills

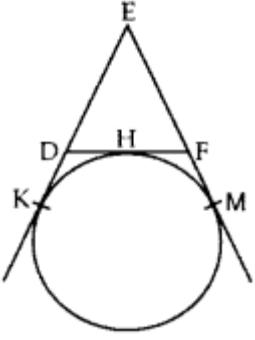|			
5	**निम्नलिखित प्रश्नों के उत्तर दीजिए।**		Communication Skills
	(क) आप टैगोर अपार्टमेंट टैगोर गार्डन दिल्ली के आर॰डब्ल्यू॰ए॰ के सचिव हैं। गांधी जयंती के शुभ अवसर पर आरडब्ल्यू॰ए॰ के सदस्यों ने डॉक्टरों की देखरेख में रक्तदान शिविर का आयोजन किया है। इच्छुक व्यक्ति रक तदान हेतु सादर आमंत्रित हैं। इस संबंध में सूचना आलेख तैयार कीजिए।	2.5	
	(ख) आपके शहर के खादी वस्त्र भंडार ने गांधी जयंती के अवसर पर खादी वस्त्रों पर 10 प्रतिशत से 30 प्रतिशत तक छूट देने का निश्चय किया है ताकि खादी वस्त्रों की लोकप्रियता बढ़े। स्वयं को खादी वस्त्र भंडार का प्रबंधक मानकर एक सूचना आलेख तैयार कीजिए।	2.5	
6	**निम्नलिखित प्रश्नों के उत्तर दीजिए**		Interdisciplinary
	(क) आधुनिक सुविधाओं वाले किसी होटल का विज्ञापन तैयार कीजिए।	2.5	
	(ख) 'हरियाली' पौधशाला (नर्सरी) के लिए एक विज्ञापन तैयार कीजिए।	2.5	
7	**निम्नलिखित में से किसी एक विषय पर 120 शब्दों में लघुकथा लिखिए।** परोपकार का परिणाम अथवा मेहनत की कमाई	5	

Subject: Mathematics   **Assignment No. : 6**
Allotment Date: 15 November 2022

S. NO.	QUESTIONS	MARKS
1	Solve the following quadratic equation for x : $4\sqrt{3}x^2 + 5x - 2\sqrt{3} = 0$ OR Solve the following for x : $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$.	2
2	Find the number of solid spheres, each of diameter 6 cm that can be made by melting a solid metal cylinder of height 45 cm and diameter 4 cm .	2
3	Find the mode of the following frequency distribution: <table><tr><td>Class</td><td>Frequency</td></tr><tr><td>0–10</td><td>8</td></tr><tr><td>10–20</td><td>12</td></tr><tr><td>20–30</td><td>10</td></tr><tr><td>30–40</td><td>11</td></tr><tr><td>40–50</td><td>9</td></tr></table>	2
4	Find the 9th term from the end (towards the first term) of the A.P. 5,9,13, …, 185.	2
5	Weekly income of 600 families is given below: <table><tr><td>Income in (₹)</td><td>No. of families</td></tr><tr><td>0–1000</td><td>250</td></tr><tr><td>1000–2000</td><td>190</td></tr><tr><td>2000–3000</td><td>100</td></tr><tr><td>3000–4000</td><td>40</td></tr><tr><td>4000–5000</td><td>15</td></tr><tr><td>5000–6000</td><td>5</td></tr></table> Find the median.	2
6	Prove that the tangents drawn at the ends of a diameter of a circle are parallel. **OR** Two concentric circles are of radii 7 cm and r cm respectively, where r > 7. A chord of the larger circle, of length 48 cm, touches the smaller circle. Find the value of r.	2
7	How many terms of the A.P. 65, 60, 55, … be taken so that their sum is zero?	3

8.	Two ships are there in the sea on either side of a light house in such a way that the ships and the light house are in the same straight line. The angles of depression of two ships as observed from the top of the light house are 60° and 45°. If the height of the light house is 200 m, find the distance between the two ships. [Use $\sqrt{3}$ = 1.73] **OR** The angles of depression of the top and bottom of a 50 m high building from the top of a tower are 45° and 60° respectively. Find the height of the tower and the horizontal distance between the tower and the building. [Use $\sqrt{3}$ = 1.73].	3
9	In the given figure, a circle touches the side DF of AEDF at H and touches ED and EF produced at K&M respectively. If EK = 9 cm, calculate the perimeter of AEDF (in cm). 	3
10	A motor boat whose speed is 20 km/h in still water, takes 1 hour more to go 48 km upstream than to return downstream to the same spot. Find the speed of the stream.	3
11	Draw a pair of tangents to a circle of radius 4.5 cm, which are inclined to each other at an angle of 45°. **OR** Draw a line segment AB of length 8 cm. Taking A as centre, draw a circle of radius 4 cm and taking B as centre, draw another circle of radius 3 cm. Construct tangents to each circle from the centre of the other circle.	4
12.	The mean of the following frequency distribu tion is 53. But the frequencies f_1 and f_2 in the classes 20-40 and 60-80 are missing. Find the missing frequencies: (2013) | Classes	Frequencies
---	---
0–20	15
20-40	f_1
40-60	21
60-80	f_2
80-100	17
Total	100		4
13	**Case study based question 1** A Satellite flying at height h is watching the top of the two tallest mountains in Uttarakhand and Karnataka, them being Nanda Devi(height 7,816m) and Mullayanagiri (height 1,930 m). The angles of depression from the satellite, to the top of Nanda Devi and Mullayanagiri are 30° and 60° respectively. If the distance between the peaks of the two mountains is 1937 km, and the satellite is vertically above the midpoint of the	2+2

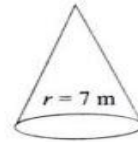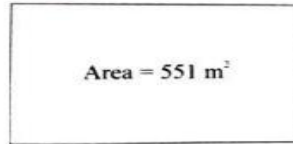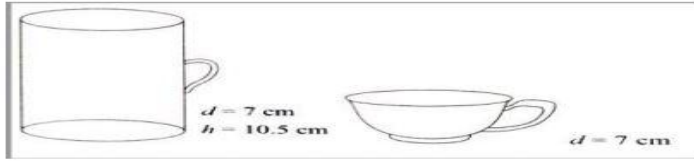distance between the two mountains.

Nanda Devi
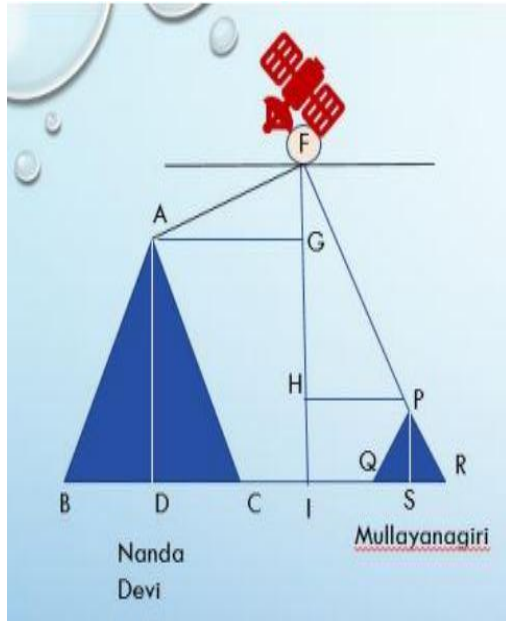
Mullayanagiri

1. Find the distance of the satellite from the top of Nanda Devi is

2. Find the distance of the satellite from the top of Mullayanagiri

14	**Case study based question2**	2+2
	Adventure camps are the perfect place for the children to practice decision making for themselves without parents and teachers guiding their every move. Some students of a school reached for adventure at Sakleshpur. At the camp, the waiters served some students with a welcome drink in a cylindrical glass and some students in a hemispherical cup whose dimensions are shown below. After that they went for a jungle trek. The jungle trek was enjoyable but tiring. As dusk fell, it was time to take shelter. Each group of four students was given a canvas of area $551m^2$. Each group had to make a conical tent to accommodate all the four students. Assuming that all the stitching and wasting incurred while cutting, would amount to $1m^2$, the students put the tents. The radius of the tent is 7m.	

d = 7 cm
h = 10.5 cm

d = 7 cm

Area = 551 m²

r = 7 m

1. Find the volume of cylindrical cup .
2. Find the curved surface area of hemispherical cup.
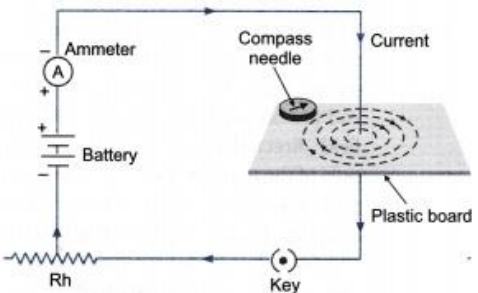
Subject: Science   **Assignment No. : 6**

Allotment Date: 15 November 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	Q1. Define electric power. Express it in terms of potential difference V and resistance R. Q2. Why do most food chains have 3-5 steps only ? Q3. Give reasons for the following: (i)Element carbon forms compounds mainly by covalent bonding. (ii)Diamond has a high melting point.	2 2 2	Information
2	Q4. What is the direction of conventional current? Give justification for your answer. Q5. Construct an aquatic food chain showing four trophic levels. Q6. The elements of the second period of the Periodic Table are given below: Li, Be, B, C, N, O, F (a) Give reason to explain why atomic radii decrease from Li to F. (b) Identify the most (i) metallic and (ii) non-metallic element.	2 2 2	Understanding
3	Q7. State Ohm's law. Write the necessary conditions for its validity.. Q8What are magnetic field lines? How is the direction of a magnetic field at a point determined? Mention two important properties of the magnetic field lines.	2 3	HOT
4	Q9. An electric bulb of resistance 200Ω draws a current of 1 Ampere. Calculate the power of the bulb the potential difference at its ends and the energy in kWh consumed burning it for 5h. Q10. "It is possible that a trait is inherited but may not expressed." Give a suitable example to justify this statement.	3 3	Interdisciplinary
5	Q11. An angiosperm plant having red flowers when crossed with the other having same colour flower produced 40 progenies, out of which 30 were red coloured flowers, 10 plants were with white flowers. Find out: a. What is the possible genotype of parent plants ? b. Which trait is dominant and recessive ? c. What is the cross called and what is phenotype ratio ? Q12. (a) What is meant by periodicity in properties of elements with reference to the periodic table? (b) Why do all the elements of the same group have similar properties? (c) How will the tendency to gain electrons change as we go from left to right across a period? Why?	3	Analytical Skill

		3	
6	Q13.(a) Give the electron dot structure and structural formula of first member of alkene and alkyne families. (b) Draw the structural formulae of the possible isomers for the compound with molecular formula C_3H_6O ?	3	Critical Thinking and Problem Solving
7	Q14.Take a thick straight conductor XY and pass it through the centre of a thick cardboard. Pass current through the conductor such that it flows from X to Y. Sprinkle some iron filings on the cardboard and gently tap. You will see that the iron filings arrange themselves in a particular pattern (a) What is the pattern of magnetic field lines around a straight conductor carrying current. (b) State the rule to find the direction of magnetic field associated with a current carrying conductor. (c) What is the shape of a current carrying conductor whose magnetic field pattern resembles that of a bar-magnet ? Q.15. Sahil performed an experiment to study the inheritance pattern of genes. He crossed tall pea plants (TT) with short pea plants (tt) and obtained all tall plants in F1 generation. (a) What will be set of genes present in the F1 generation? (b) Give reason why only tall plants are observed in F1 progeny. (c) When F1 plants were self - pollinated, a total of 800 plants were produced. How many of these would be tall, medium height or short plants? Give the genotype of F 2 generation. OR When F1 plants were cross - pollinated with plants having tt genes, a total of 800 plants were produced. How many of these would be tall, medium height or short plants? Give the genotype of F 2 generation.	4 4	Evaluation
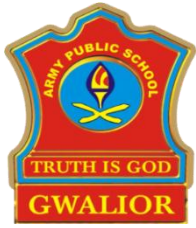
ARMY PUBLIC SCHOOL GWALIOR
CLASS - X
ACADEMIC SESSION 2022-23
WORKSHEET (SELF –ASSESSMENT)

Subject: Social Science   **Assignment No. : 6**
Allotment Date: 15 November 2022

S. NO.	QUESTIONS	MARKS	NATURE
1	Write any two demands of peasants of Awadh .	2	Information
2	What are basic industries ? Give an example.	2	Understanding
3	Write in brief about Golden Quadrilateral Super Highways.	2	Understanding
4	What are the expected outcomes of Democracy?	2	Critical Thinking
5	Why is money accepted as a medium of exchange ?	2	Knowledge
6	" When the Civil Disobedience Movement started there was an atmosphere of suspicion and distrust between communities". Why was it so?	3	HOTS
7	What is the need of the political parties ? How would its absence affect any country ?	3	HOTS
8	How do the MNCs manage to keep the cost of production of their goods low? Explain with examples.	3	Information
9	Read the given text and answer the following questions:
'It is said of "passive resistance" that it is the weapon of the weak, but the power which is the subject of this article can be used only by the strong. This power is not passive resistance; indeed, it calls for intense activity. The movement in South Africa was not passive but active … 'Satyagraha is not physical force. A satyagrahi does not inflict pain on the adversary; he	4	Understanding

	does not seek his destruction … In the use of satyagraha, there is no ill-will whatever. 'Satyagraha is pure soul-force. Truth is the very substance of the soul. That is why this force is called satyagraha. The soul is informed with knowledge. In it burns the flame of love. … Nonviolence is the supreme dharma …'It is certain that India cannot rival Britain or Europe in force of arms. The British worship the war-god and they can all of them become, as they are becoming, bearers of arms. The hundreds of millions in India can never carry arms. They have made the religion of non-violence their own ...' 1. Why did Gandhiji consider nonviolence as supreme dharma? (1) 2. How was Gandhian satyagraha taken by the people who believed in his philosophy?(1) 3. Why was Gandhian satyagraha considered as a novel way to resist injustice? (2)		
10	Read the given text and answer the following questions: Ever since humans appeared on the earth, they have used different means of communication. But, the pace of change, has been rapid in modern times. Long distance communication is far easier without physical movement of the communicator or receiver. Personal communication and mass communication including television, radio, press, films, etc. are the major means of communication in the country. The Indian postal network is the largest in the world. It handles parcels as well as personal written communications. Cards and envelopes are considered first-class mail and are airlifted between stations covering both land and air. The second-class mail includes book packets, registered newspapers and periodicals. They are carried by surface mail, covering land and water transport. To facilitate quick delivery of mails in large towns and cities, six mail channels have been introduced recently. They are called Rajdhani Channel, Metro Channel, Green Channel, Business Channel, Bulk Mail Channel and Periodical Channel. 1 Examine the role of the Indian postal network. (1) 2 Differentiate between mass communication and personal communication. (1) 3 Analyse the significance of communication for a nation. (2)	4	Information
11	Describe the vital and positive role of credit with examples.	**5**	HOTS
12	How do money and muscle power play an important role in elections? Explain.	**5**	Critical Thinking
13	13.1 On the given outline Political Map of India, identify the place marked as A with the help of following information and write its correct name on the line marked near it. (A)The place where Non Cooperation Movement was called off due to violence. (1) 13.2 On the same given map of India, locate the following: (I) Namrup Thermal Plant (1) OR Noida Software Technology Park (II) Raja Sansi (Sri Guru Ram Dass Jee) International Airport (1)	**3**	Map Skill