

SANSKAR SCHOOL

SUMMER HOLIDAY ASSIGNMENTS

2018-19

Class IX

SUMMER VACATIONS are generally the happiest period in a student’s calendar year. It is that time of the year when the children are ready to relax, unwind, meet their friends and relatives and gear up for some new pursuits and activities. Summer vacations provide ample time for the children to enjoy family time together and create memorable moments visiting different places, exploring new interest areas or honing their skills. This time period is also ideal for inculcating good reading habits wherein children enjoy and appreciate the pleasure of reading books that will enhance their expression, vocabulary, general awareness and develop a basic interest in reading.

Alongside all the fun and activities, the children should stay connected with academics too. To enable this, we have chalked out some simple and interesting assignments for the children as per their subjects and class. A mental workout is as important as a physical one, after all. The children should complete assignments in their notebooks with the guidance and support of their elders, if and where needed.

ENGLISH WORKSHEET-1

1). **The following passage has not been edited. There is an error in each line. Write the incorrect word and the correct word in the answer sheet against the correct blank number.**

	Wrong	correct
“Either you or your friend Shalu have stolen my note	(a) -----	-----
book”, shouted Shreya. Neither I nor my friend were	(b).....
your culprit, said Shalu. We both are not in the class since	(c).....
morning. We are out for the annual day function	(d).....
But who are the culprit then? asked Shreya.	(e).....
I don’t know that but we both were not guilty.	(f).....

2). **Look at the words and phrases below. Rearrange them to form meaningful sentences as shown.**

- a. on foot/ the/ greeting/ candidates/ walk/ the/ even / people.
- b. opportunity/ they/ the/ of / catch/ shaking hands/ anyone/ meet/ they/ with.
- c. their problems/ people/ their/ assure/ that / they / will / supporters.
- d. to exercise/ votes / they/ candidates/ urge/them/ their/ in favour of their.

3). **In the following passages, one word has been omitted in each line. Write the missing word along with the word that comes before and the word that comes after it in the space provided against the correct blank number. Ensure that the word that forms your answer is underlined.**

	Before	word	after
Several studies show the diets of	Show	that	the
female children and women inadequate	(a)		
as result of indiscriminate food	(b)		
allocation. Due to, girls fail	(c)		

to full growth potential. The worst	(d)
is when we find there is no	(e)
increase in quality and quantity food	(f)
intake during pregnancies. In the	
event, women giving birth children	(g)
are also victims of malnutrition anaemia.	(h)
Likewise, female foeticide is also major	(i)
problem in the welfare aspect women.	(j)

WORKSHEET-2

1). Tarun decided to write a story but after some time, he could not complete the story as he lost interest. Complete his story on the basis of the beginning given below.

“Once upon a time, the Lion, the king of the forest, was celebrating his son’s birthday. All the animals and birds of the forest were to participate in the grand function....”

WORKSHEET-3

1). Read the passage given below carefully:

1. It happens to us all, however hard we may try to delay the process. We grow old. Cosmetic surgery may remove wrinkles, skin which has suggested may be tightened by means of a facelift and a hair dresser may dye grey hair a more youthful colour, but we cannot remain young forever. Advances in medicine have made it possible for more people to stay alive longer.
2. Age brings intelligence, experience, wisdom and beauty. So why are we so scared of it? The trouble is that many of us find it impossible to relate to these worrying facts, unable to face the reality that everyday we inch ever closer to our own dotage. Our older generations experienced the majority of the most tumultuous century in human history and yet at best we infantilise , at worst outright ignore them.
3. However, what is important is the quality of life. Some people are lucky to be taken care of at home whereas others may have to move to residential homes. The worst part of ageing that often the mind becomes less alert. As people grow older they experience short-term memory. Later, some may suffer from dementia, often in the form of Alzheimer's disease.
4. By no means are all people in this category. Many senior citizens are in the possession of all their faculties and see retirement as a time of freedom. Not only that if they have a generous retirement pension, they are likely to be quite well-off with money to be spent on a holiday and other luxuries. Because of this, both businesses and government have a new respect and government have a new respect for what is known as grey power. By no means, however, does everyone treat the elderly with great respect.
5. There are some cultures which are noted for the great respect with which they treat old people, but many people regard the old as having a very low status in society and treat them accordingly.

1. Based upon your reading of the above passage, answer the following questions

- a. What does the writer imply by saying 'some people are lucky'?
- b. Why do we have such an aversion to ageing ?
- c. What is meant by 'Grey Power' ?
- d. Why is retirement considered a time of freedom?

2. Answer the following questions:

- a. Which word in para 4 means 'liberal'?
- b. Which word in para 4 means the same as 'wealthy'?
- c. Find a word in para 4 which means similar to 'income'.
- d. Find the word opposite to 'peaceful'. (para 2)

2). Read the following passage and answer the questions that follow:

High speed in Indian Railways is at present limited to 150 KMPH. However, in many other countries the speed of Railways is of the order of 200 KM per hour (KMPH). In France, Japan, Germany, China, Spain and South Korea high speed traction above 280 KMPH has been introduced. India and Japan have signed a memorandum of understanding (MoU) on 12th December, 2015 on cooperation and assistance in the Mumbai – Ahmedabad High Speed Rail (HSR) Project referred to by

many as 'Bullet Train Project'. Japan has offered an assistance of over Rs. 79,000 crore for the project. The loan is for a period of 50 years with a moratorium of 15 years, at an interest rate of 0.1 per cent. The project is a 508 kilometre Railway line costing a total of Rs 97,636 crore, to be implemented in a period of seven years. It has been agreed that for the Mumbai –Ahemdabad HSR Project. Japan's Shinkansen Technology, known for its speeds reliability and safety, will be adopted. Transfer of technology and "Make in India" will be essential part of this assistance package. Japan will also assist India in training of personnel for HSR.' The two countries have also entered into two comprehensive technological cooperation agreements on 11th December 2015, for modernization and upgradation of Indian railways. These agreements have been signed during the official visit to India of His Excellency Mr. Shinzo Abe, the Prime Minister of Japan, during December 11-13, 2015. On the basis of your reading of the passage, answer the questions:

- Name the countries where high speed traction above 280 KMPH has been introduced.
- Which project is known as "Bullet Train Project"?
- How much time and money is estimated for the Project?
- Which technology will be adopted for the Project?
- What agreements were signed during 11th December to 13th December 2015?
- What is Shinkansen Technology famous for?
- How has Japan assisted India financially for the Project?
- Find a word from the paragraph No. 2 which means 'Necessary'.

WORKSHEET-4

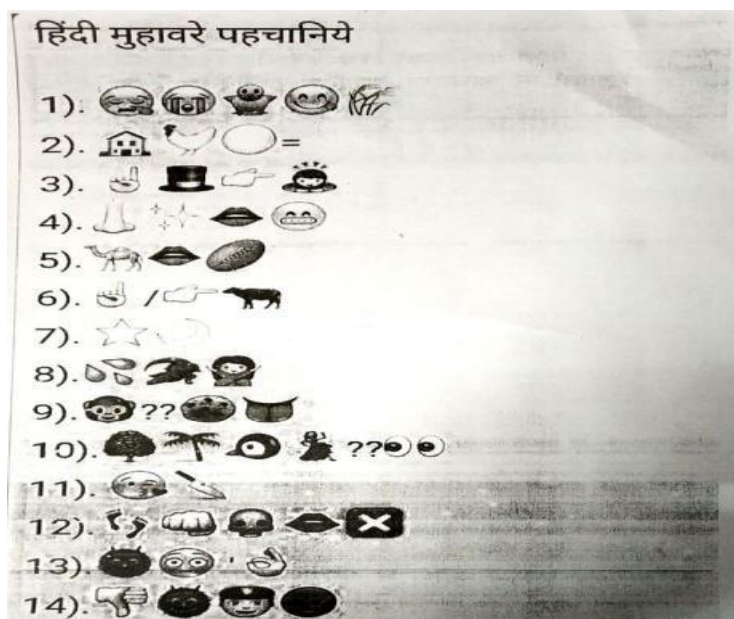
1). You are Suman/Sumit leaving at B-85, Jahangir Puri, New Delhi. You experience that there are so many stray animals in your locality and they are wandering here to there freely, this causes serious accidents and public problems. Write a letter to NDM Commissioner to control the stray animals in your locality.

HINDI

परियोजना कार्य- 1

- अपने घर और पास-पड़ोस के लोगो का साक्षात्कार लेते हुए भारतीय पहनावे की जानकारी लीजिए।
- किसी भी हिन्दी समाचार-पत्र के दो गद्यांशो को पढ कर उनमें प्रयुक्त उपसर्ग व प्रत्यय युक्त शब्दों को छांटकर लिखिए।
- अपने मन-पसन्द लेखक , अभिनेता या राजनेता के जीवन -परिचय के साथ उनके कार्यों का वर्णन अपने शब्दों में लिखिए।

परियोजना कार्य- 2



परियोजना कार्य-3

. प्रेमचंद द्वारा लिखित कोई भी दो कहानी पढ़कर उनके पात्रों का चरित्र चित्रण करते हुए कहानी के मूल उद्देश्य को अपने शब्दों में लिखिए ।

. अपने मनपसंद विषय पर एक कविता लिखिए ।

परियोजना कार्य-4

. आगे लिखे हुए शब्दों को लेकर एक कविता की रचना कीजिए ।

१. अचल	वर्षा
२. आभूषण	संसार
३. आम	स्त्री
४. अमृत	जल
५. इच्छा	दुःख
६. किरण	दास
७. मित्र	पवित्र
८. विवाह	धन
९. वसंत	

SANSKRIT

कार्यपत्रक-1

(अपठित गद्यांशम्)

प्रश्न 1 अधोलिखितम् अनुच्छेदं पठित्वा प्रश्नानाम् उत्तराणि लिखत ।

‘दीपावली’ नामकपर्वणः भारते अतीव महत्त्वम् अस्ति । श्रूयते यत् अस्मिन् दिने त्रेतायुगे मर्यादापुरुषोत्तमः श्रीरामचन्द्रः पितुः आज्ञां परिपालयत् चतुर्दशवर्षपर्यन्तं वने उषित्वा राक्षसराजं रावणं हत्वा तस्य बन्धनात् स्वपत्नीं सीतां च विमोच्य, सीतया लक्ष्मणेन च सहितः अयोध्यां नगरीं निवृत्तः आसीत् । ततः प्रभृति सर्वैः भारतीयैः अस्मिन्नेव दिने प्रतिवर्षं स्वगृहेषु दीपमाला क्रियते । दीपावलीमहोत्सवे रात्रौ श्रीमहालक्ष्मीपूजनं क्रियते । स्थाने-स्थाने वैदिकमन्त्रैः हवनयज्ञादिकम् अपि अनुष्ठीयते । बहवो वणिजः अस्माद् दिनाद् ‘बही-खाताम्’ आरम्भं कुर्वन्ति । कार्तिकमासस्य अमावस्यायां दीपावलीमहोत्सवः भवति । अस्मिन् दिने गृहाणां विशेषतः शुद्धिः सुधाधवलिता च क्रियते । गृहम् नववधूरिव भासते । यत्र-यत्र शोभा, तत्र-तत्र महालक्ष्मीदेव्याः आगमनं भवति इति मन्यते ।

1 एकपदेनउत्तरत-

- (1) कस्मिन् युगे श्रीरामचन्द्रः आसीत् ?
- (2) दीपावली- महोत्सवे रात्रौ किम् क्रियते?
- (3) दीपावली- महोत्सवे वणिजः किम् आरम्भं कुर्वन्ति ?
- (4) श्रीरामचन्द्रः कं हत्वा अयोध्या नगरीं निवृत्तः आसीत् ?

2 पूर्णवाक्येनउत्तरत-

1 दीपावली-विषये किम् श्रूयते ?

2 दीपावली -दिने स्थाने-स्थाने किम् भवति ?

3 निर्देशानुसारम् उत्तरत—

- 1 'निशायाम्' इति पदस्य कः पर्यायः अनुच्छेदे प्रयुक्तः?
(अ) महत्त्वम् (ब) दिवसे (स) अस्मिन् (द) रात्रौ
- 2 'निवृत्तः आसीत्' इति क्रियायाः कर्तृपदं किम् ?
(अ) श्रीरामचन्द्रः (ब) दीपावली (स) गृहम् (द) शोभा
- 3 'वणिजः' शब्दस्य विशेषणं किम् ?
(अ) विशेषतः (ब) आगमनम् (स) बहवो (द) मन्यते
- 4 'प्रत्यागतः' अस्य पदस्य कृते किं पदम् अनुच्छेदे प्रयुक्तम् ?
(अ) अस्ति (ब) कुर्वन्ति (स) पूजनम् (द) निवृत्तः आसीत्

4 अस्य अनुच्छेदस्य कृते समुचितं शीर्षकं लिखत ।

कार्यपत्रक-2 (पत्र-लेखनम्)

प्रश्न 1 भवान् सतीशः भवतः मित्रस्य विद्यालये प्रवेशाय भवता लिखितं पत्रं मंजूषास्थपदैः पूरयत ।

ईटानगरम्

1

तिथिः 15.09.17

प्रिय सुहृदविजय

सप्रेमनमः

अत्र इव तत्रापि सर्वे 2इति विश्वासः अस्ति । अत्र मम विद्यालये 3 पर्यन्तम् एव

अध्ययन -व्यवस्था अस्ति इत्यतः , अहं भवतः 4 एकादश कक्ष्यायां प्रवेष्टुम् 5..... ।

प्रवेशः कदा आरभ्यते इति 6 । आगामिनिकाले आवां 7 पठावः 8

स्पर्धासु च भाग स्वीकुर्वः । मातापितृभ्यां 9 समर्पयतु ।

धन्यवादः

भवतः प्रियसुहृद

10

मंजूषा

(सूचयतु ,सतीश, अरुणाचलप्रदेशतः, इच्छामि, मिलित्वा, विद्यालये, सर्वासु, दशमी-कक्ष्या, कुशलिनः, प्रणामान्)

कार्यपत्रक-3 (शब्दरूपाणि)

प्रश्न 1 शब्दरूपाणि लिखत ।

1 बालकः

2 लता

3 फलम्

4 वारि

5 नदी

कार्यपत्रक-4
(कथा-लेखनम्)

1 मंजूषात् पदं चित्वा कथायाम् रिक्त-स्थानम् पूर्तिं कुरुत ।

(आसीत् , जलं ,स्म ,कूपस्य , काकः, उपरि, अधुना ,गगने)

एकः कृष्णः काकः । सः पातुम् इतस्ततः अभ्रमत् । सः जलं पातुं परिश्रमं करोति

..... । परन्तु सफलः न अभवत् । सः समीपे एकं घटम् अपश्यत् । घटे न्यूनं जलम्

आसीत् । तत्र पाषाणखण्डान् दृष्ट्वा अचिन्तयत् । यदि एकम् एकं पाषाणखण्डं घटे क्षिपामि

तर्हि जलम्आगमिष्यति । क्रमशः पाषाणखण्डैः जलं षनैः षनैः उपरि आगच्छत् ।

अहं जलं पिबामि । काकः जलं पीत्वा उदपतत् ।

MATHS
WORKSHEET-1

Q1. How many irrational numbers lie between $\sqrt{2}$ and $\sqrt{3}$? Find any three irrational numbers lying between $\sqrt{2}$ and $\sqrt{3}$.

Q2. Find 2 rational numbers between 0.343443443..... and 0.3636636663.....

Q3. If $x = 3 + 2\sqrt{2}$, check whether $x + \frac{1}{x}$ is rational or irrational.

Q4. Simplify $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$

Q5. Simplify $8^{\frac{2}{3}} - \sqrt{9} \times 10^0 + \left(\frac{1}{144}\right)^{-\frac{1}{2}}$

Q6. If $\sqrt{2} = 1.414$ and $\sqrt{3} = 1.732$, find $\frac{4}{3\sqrt{3}+2\sqrt{2}} + \frac{3}{3\sqrt{3}-2\sqrt{2}}$.

Q7. Solve $\frac{\sqrt{6}}{\sqrt{2}+\sqrt{3}} + \frac{3\sqrt{2}}{\sqrt{6}+\sqrt{3}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}}$

Q8. Simplify $\frac{1}{1 + \sqrt{2} - \sqrt{3}}$.

Q9. Simplify $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \left[\left(\frac{25}{9}\right)^{-\frac{3}{2}} \div \left(\frac{5}{2}\right)^{-3}\right]$

Q10. Simplify $\frac{(25)^{\frac{3}{2}} \times (343)^{\frac{3}{5}}}{(16)^{\frac{5}{4}} \times (8)^{\frac{4}{3}} \times (7)^{\frac{3}{5}}}$

Q11. Show that $(x^{a-b})^{a+b} (x^{b-c})^{b+c} (x^{c-a})^{c+a}$

Q12. If $a = 2$, $b = 3$, then find the values of the following:

(i) $(a^b + b^a)^{-1}$ (ii) $(a^a + b^b)^{-1}$

Q13. Prove that $\frac{2^{30}+2^{29}+2^{28}}{2^{31}+2^{30}-2^{29}} = \frac{7}{10}$

WORKSHEET 2

Q 1. Represent $\sqrt{9.3}$ on the number line.

Q 2. Find three different irrational numbers between the rational numbers $\frac{5}{7}$ and $\frac{9}{11}$.

Q 3. Prove that $\sqrt{3} - \sqrt{2}$ is an irrational number.

Q 4. Visualise 4.678 on number line.

Q 5. If x is a positive real number and the exponents are rational numbers, show that

$$\left(\frac{x^a}{x-b}\right)^{a^2+b^2-ab} \left(\frac{x^b}{x-c}\right)^{b^2+c^2-bc} \left(\frac{x^c}{x-a}\right)^{c^2+a^2-ac} = x^2(a^2+b^2+c^2)$$

Q 6. Simplify : $\frac{6(8)^{n+1}+16(2)^{3n-2}}{10(2)^{3n+1}-7(8)^n}$

Q 7. If $a=xy^{p-1}$, $b = xy^{q-1}$ and $c = xy^{r-1}$, prove that $a^{q-r}b^{r-p}c^{p-q}=1$

Q 8. Write the value of $\sqrt[3]{125 \times 27}$

Q 9. If $\frac{3^{5x} \times 81^2 \times 6561}{3^{2x}} = 3^7$, then find the value of x

Q 10. If a and b are different positive primes such that $\left(\frac{a^{-1}b^2}{a^2b^{-4}}\right)^7 \div \left(\frac{a^3b^{-5}}{a^{-2}b^3}\right) = a^x b^y$. Find x, y .

Q 11. Solve the equation $3(2^x + 1) - 2^{x+2} + 5 = 0$.

Q 12. If $\frac{9^n \times 3^2 \times 3^n - 27^n}{3^{3m} \times 2^3} = \frac{1}{27}$, prove that $m - n = 1$.

Q 13. Simplify $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \times \left[\left(\frac{25}{9}\right)^{\frac{-3}{2}} \div \left(\frac{5}{2}\right)^{-3}\right]$

Q 14. If $9^{x+2} = 720 + 9^x$, find the value of $(4x)^{\frac{1}{x}}$.

Q 15. Find the value of x , if $5^{x-3} \times 3^{2x-8} = 225$.

WORKSHEET-3

Q1. Find 4 rational numbers between $\frac{3}{7}$ and $\frac{5}{7}$.

Q2. Find 2 rational numbers between 3 and 4.

Q3. Find 4 rational numbers between $\frac{1}{3}$ and $\frac{4}{5}$.

Q4. How many irrational numbers lie between $\sqrt{2}$ and $\sqrt{3}$? Find any three irrational numbers lying between $\sqrt{2}$ and $\sqrt{3}$.

Q5. Represent $\sqrt{3}$ on the number line.

Q6. Let x and y be rational and irrational numbers. Is $x+y$ necessarily an irrational number? Give an example in support of your answer.

Q7. Find 2 rational numbers between 0.343443443..... and 0.3636636663.....

Q8. Express $0.\overline{53}$ in the form of p/q .

Q9. Express $\frac{3}{13}$ in decimal form and say what kind of decimal expansion it is?

Q10. Express $1.3\overline{23}$ in $\frac{p}{q}$ form.

Q11. Express $3.\overline{57}$ in $\frac{p}{q}$ form.

Q12. Simplify $(3 + \sqrt{3})(2 + \sqrt{2})^2$

Q13. Evaluate $\frac{36^{7/2} - 36^{-9/2}}{36^{-5/2}}$

Q14. Find the value of x if $2^4 \times 2^5 = (2^3)^x$

Q15. Simplify $(\sqrt{3} + 2)(\sqrt{3} - 2)$

WORKSHEET-4

Q1. Rationalise $\frac{3}{\sqrt{7} - \sqrt{2}}$.

Q2. If $x = 3 + 2\sqrt{2}$, check whether $x + \frac{1}{x}$ is rational or irrational.

Q3. Solve $\frac{1}{5 - 2\sqrt{3}} + \frac{1}{5 + 2\sqrt{3}}$.

Q4. Solve $\frac{5}{\sqrt{7} - \sqrt{2}}$.

Q5. Prove that $(3 - \sqrt{7})^2$ is an irrational number.

Q6. Evaluate $(\sqrt[3]{343})^{-2}$.

Q7. Simplify $\sqrt[4]{\sqrt[3]{x^2}}$ and express the result in the exponential form of x.

Q8. Simplify $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \times \left(\frac{25}{9}\right)^{-\frac{3}{2}}$ Q9. Simplify $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$

Q10. Simplify $\{5 [8^{1/3} + 27^{1/3}]^3\}^{1/4}$

Q11. Simplify $\frac{9^{1/3} \times 27^{1/2}}{3^{-1/6} \times 3^{1/3}}$

Q12. Find the value of x : $\left(\frac{3}{4}\right)^3 \left(\frac{4}{3}\right)^{-7} = \left(\frac{3}{4}\right)^{2x}$

Q13. Simplify $(32)^{1/5} + (-7)^0 + (64)^{1/2}$

Q14. Simplify $\left(\frac{64}{125}\right)^{-\frac{2}{3}}$

Q15. Simplify $8^{\frac{2}{3}} - \sqrt{9} \times 10^0 + \left(\frac{1}{144}\right)^{-\frac{1}{2}}$

SOCIAL STUDIES **WORKSHEET-1(HISTORY)**

1. Name the book that has proposed a division of power within the government?
2. Who was the king of France at the time of French revolution?
3. Describe any three causes for the fall of the Jacobin government in France.
4. Highlight the provisions of the constitution which was introduced after the fall of Jacobin club.
5. What role did women play during the revolutionary years?
6. Draw up a list of democratic rights we enjoy today whose origins could be traced to the French Revolution.

WORKSHEET-2 (CIVICS)

1. Who said these words, "Democracy is the rule of the people, for the people and by the people"?
2. Democracy comes from which Greek word?
3. What amendments did Pervez Musharraf bring in the Constitution of Pakistan by issuing a legal framework order?
4. 'Some countries are not ready to give voting rights to their citizens'. Explain.
5. Name any two countries where elections are held regularly but they cannot be considered as democratic countries. Explain.
6. How can you say that in a democracy no one is a permanent winner or loser?
7. With the help of an example, explain the significance of the Preamble of the constitution and give any three guiding values embedded in it.

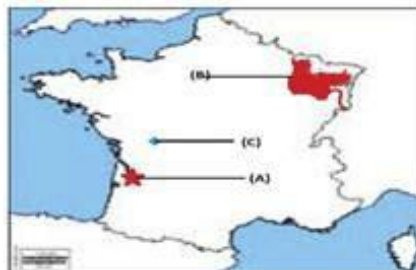
WORKSHEET-3 (GEOGRAPHY & ECONOMICS)

1. How did the spread of electricity help farmers in Palampur?
2. What do you know about Green revolution?
3. How are the farmers in village Palampur able to grow more crops from the same land?
4. What are the non-farming activities of people of the village Palampur?
5. Why have the countries of the world selected their own Standard Meridians?
6. Which is the largest riverine island in the world?
7. Chalk down the importance of various physiographic divisions of India?

WORKSHEET-4 (MAP WORK)

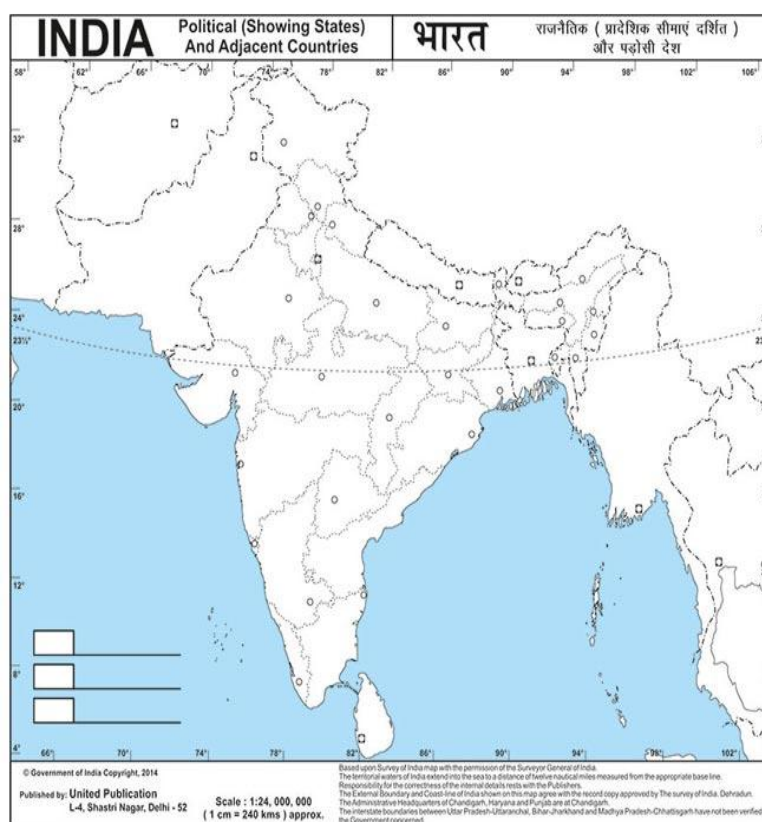
Q.1 Three items A, B, and C are shown in the given outline map of France. Identify these items with the help of the following information and write their correct names on the lines marked on the map.

1. Port-related to slave trade
2. Region not affected by the great fear
3. Epicenters of main panic movement



Q.2 Mark on the political map of India:

- a. Standard Meridian
- b. Tropic of Cancer
- c. Palk Strait
- d. Countries of the Indian Sub-Continent



SCIENCE WORKSHEET 1(PHYSICS)

1. A racing car has a uniform acceleration of 5m/s^2 . What distance will it cover in 10 seconds after start?

2. A bus starting from rest moves with a uniform acceleration of 0.1m/s^2 for 2 minutes. Find the speed acquired and the distance travelled.
3. A bicycle increases its velocity from 10 km/hr to 15 km/hr in 6 seconds. Calculate its acceleration.
4. A car moves 100m towards east and then 25 m towards west. What is the distance covered by the car and what is the displacement?
5. A quantity is measured to be as -30m/s . Is it speed or velocity? Give reason.
6. A motorcyclist drives from A to B at a uniform speed of 40km/hr and returns back with a speed of 20 km/hr. Find the average speed.
7. An object travels 16m in first 4 seconds and next 16 m in 5seconds. Is his motion uniform or non uniform why ?
8. A cyclist travels a distance of 5 km from P to Q towards west and then moves a distance of 12 km at right angle to PQ towards south. Find his resultant displacement graphically.

WORKSHEET-2 (CHEMISTRY)

- Q1. (a) Define latent heat of vaporisation.
 (b) Give reason: During summer sitting under a fan makes us comfortable.
- Q2. Define the term sublimation. Write the names of any two substances which sublime.
- Q3. Identify and explain the factors responsible for change in rate of evaporation in the following situations:
- (a) While putting clothes for drying, we spread them out.
 - (b) Water coolers are not effective on a rainy day.
- Q 4. Write a short note on Fourth state of matter (PLASMA).
- Q5. Change the following Celsius temperature to Kelvin scale:
 (i) $-273\text{ }^\circ\text{C}$ (ii) $-100\text{ }^\circ\text{C}$ (iii) $-40\text{ }^\circ\text{C}$ (iv) $+30\text{ }^\circ\text{C}$
- Q6. Explain the effect of change of pressure on state of matter.
- Q7. Why does steam cause more severe burns than boiling water at the same temperature?

WORKSHEET-3 (BIOLOGY)

- Q1. A plant cell is placed in a hypotonic solution. What will happen? Will the cell burst? Why or why not?
- Q2. Give the difference between leucoplast, chromoplast and chloroplast.
- Q3. Most mature plant cells have a large central vacuole. Why?
- Q4. Write two statements to show that lysosomes are called the suicidal bags of the cell.
- Q5. Draw the diagram of a plant cell and label any three parts which make it different from an animal cell.
- Q6. Write two differences between nuclear region of a bacterial cell and nuclear region of an animal cell.
- Q7. Differentiate between diffusion and osmosis.

WORKSHEET-4 (PRACTICAL WORK- TO BE DONE IN THE LAB MANUALS)

- Q.1 AIM : To establish relationship between weight of a rectangular wooden block lying on a horizontal table and the minimum force required to just move it using spring balance.
- Q.2 AIM : To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder.
- Q.3 To prepare stained temporary mounts of (a) onion peel (b) human cheek cells and to record observations and draw their labelled diagrams.
- Q.4 To determine the melting point of ice and the boiling point of water.

COMPUTER APPLICATION

Create the following in a word processor:-

1. Creating a Report on the Free Health Check-up Camp.
2. Creating a Greeting Card for a friend's birthday.
3. Creating a Poster on Digital India.

Note:-Take a colored/black & white printout for the above documents.