SALWAN PUBLIC SCHOOL

Sector-15 (II), Gurugram

Winter Holiday Practice Sheet

(2017-18)

CLASS – VIII

English

Sample Question Paper - 1

Subject: English	Time Duration: 3 hrs.	M.M :90

General Instructions: All questions of all sections are compulsory.

Section-A (Reading) : 20 Marks

Section-B (Writing) : 20 Marks

Section-C (Grammar) : 15 Marks

Section-D (Literature) : 35 Marks

Section-A (Reading)

1. **Read the following passage carefully and answer the questions that follow.**

Manufactured goods worth crores of rupees are being imported every year. There is dearth of food. Our industries are yet in infancy. We need engineers to man them. 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 have a sort of prejudice against all types of manual labour. They prefer a job in some office to do 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. All educated young men cannot be absorbed in this vocation.

Education in arts and 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, in order 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 utilize this wealth. More and more technical institutions are, therefore, being opened. A large number of 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 in private and public sector to give employment to engineers of the country. It will be 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.

1.1   Choose the correct option to fill in the blanks: 1 x 4

a There is a scarcity of _____ in our country.

i) manufactured goods   ii) food   iii) corn   iv) labour

b There are very few technical institutions in the country because the youth prefers _____ to manual labour.

i) farming   ii) importing   iii) crafts   iv) office jobs

c Our young engineers are forced to migrate to foreign countries because of _____ in our country.

i) crime   ii) government policies   iii) unemployment   iv) illiteracy

d Present education in India should emphasize more on _____ for the development of the country.

i) art and craft   ii) skilled labour   iii) technical training iv) unemployment

1.2   Answer the following questions briefly.   2 x4

a What would force the government to restrict admission to the technical colleges?

b What are the two solutions mentioned above to solve the problem of unemployment?

c Why should technical education be based on good literary education?

d Find the antonym of the words (i) plenty   and   (ii) uneducated from the passage.

2.   Read the following poem carefully and answer the questions that follow:

In the dark that falls before the dawn,
When the dew has settled on the thorn,
When the stars have been obscured by clouds,
A silence covers all things in shrouds.
No wind sighs in the mulberry tree,
No firefly glimmers wild and free,
A shadow has wrapped the night in gloom,
It's silent as a deserted tomb.
All of a sudden a lapwing's cry
Cuts the black silence as it flies by,
Again and again it slashes the dark

That haunts the empty, desolate park.
Anguish, sorrow pours from its throat,
It wings in the night, note after note;

I open my window so the light
Will flood the dark of this wretched night.
Why does it cry so miserably?
Why is it so solitary?
All I know is that loss and ache
Are left behind in the lapwing's wake.

Answer the following questions briefly. 2 x 4

a How does the poet describe the scene before the dawn?

b When and where does the lapwing come out?

c Why does the poet open the window?

d What are the causes of the Lapwing's misery?

Section-B (Writing)

3. **Develop a story in about 200 words with the given opening lines:** 7
It was a night in the middle of the June. It was terribly hot. The air was still.
To make it worse, there was no electricity. After the day's hard work, I……

4. **Write a speech in about 150 words to be delivered in the morning** 7
assembly on 'License to drive is not a license to kill'.

5. **Every year, on Republic Day, Bravery Awards are given to the children** 6
who have shown exemplary courage. Stories of these brave-hearts have
inspired you. Write an E-mail in about 120 words to your younger
brother Rohit, sharing with him the need to develop skills such as
courage and determination amongst the youth today.

Section-C (Grammar)

6. **Do as directed.** 1 x 5

a The import of petrol has been banned in the Midlands. The price of it has
gone up. (**Join with a conjunction**)

b Many environmentalists strongly object to the mill being built at Stutipur.
The employed are very happy at the proposal. (**Join with a conjunction**)

c She said to me, "Have you met my sister?" (**Change into indirect speech**)

d The manager said to the lady, "Please, wait for your turn." (**Change into
indirect speech**)

e The tourist said to the travel agent, "When will we get our tickets?"
(Change into indirect speech)

7. **Fill in the blanks with appropriate words given in the brackets.** **1 x 4**

a It is desired that you _____ get a nice gift for her. (should/must)

b I _____ come tomorrow but it's going to be difficult. (may/might)

c She will _____ his apology only on one condition. (except/accept)

d My father is a man of _____. (principal/principle)

8. **Read and follow the instructions given in the brackets.** **1 x 4**

a The children enjoyed watching the parade. **(Identify Gerund or Participle)**

b Did you see the man driving the red car? **(Identify Gerund or Participle)**

c We know that our business will be successful. **(Identify Main and Subordinate Clause)**

d We shall not be home tomorrow since we are visiting friends. **(Identify Main and Subordinate Clause)**

9. **Edit the passage given below. The first one has been done as an example.** **½ x4**

	Incorrect	**Correct**
The statue of liberty is designed by Frederic	is	was
Auguste Barthhold. It was completely in France in	i) _____ _____	
July 1884. The statue was shipped to New York with	ii) _____ _____	
350 pieces. She arrived there on 17 June 1885. The	iii _____ _____	
pieces were put together but the opening ceremony	iv) _____ _____	
took place on 28 October 1886.		

Section-D (Literature)

10. **Read the given lines from the poem and answer the following questions.** **1 x3**

"Though the heel of the strong oppressor

May grind the weak to dust

And the voices of fame with one acclaim

May call him great and just."

a Who has been called as 'great and just'?

b What possible condition of the weak has been described in these lines?

c Whose voices have been mentioned in the above lines?

11. **Read the given lines from the passage and answer the following** **1x 3**

questions.

"Is that what the agreement says?"

a Who asked this question?

b What aspect of the agreement was the speaker referring to?

c Why did he ask this question?

12. Answer the following questions in 20-30 words.   **2 x 8**

a What did Bassanio request the Duke to do?

b Name the two places to which the Atacama Desert is compared and contrasted.

c What do you think 'letters of living light' are?

d What voices did the narrator hear when the train entered the Saharanpur station?

e The poet says, My life was leading me around, Instead of me living it.' What does this mean?

f What distinction did JRD achieve in his mid-twenties? How did he respond?

g Why did Swedish government not permit Alfred Nobel to rebuild his factory?

h What assurance does the poet give to those who 'play fair'?

13. Answer the following questions in 40-50 words.   **3 x 3**

a What were some of the ordeals Sumanth Cidambi had to face during the Atacama Crossing Marathon? Mention any three.

b Which qualities of JRD Tata are worth imitating? Give reasons to support your answer.

c Did Shylock's opinion of Portia as the 'most learned judge' change? Why? When do you think this change of opinion would have come about?

14. Who do you think showed the greatest mercy—the Duke, Portia or Antonio? Justify you response in about 50-60 words.   **4**

Subject: English	Time Duration: 3 hrs.	M.M :90

General Instructions: All questions of all sections are compulsory.
Section-A (Reading)   **: 20 Marks**
Section-B (Writing)   **: 20 Marks**
Section-C (Grammar)   **: 15 Marks**
Section-D (Literature)   **: 35 Marks**

Section-A (Reading)

1.   **Read the following passage carefully and answer the questions that follow.**

Everyone has a favourite attraction at an amusement park, and I am no different. However, unlike most people who seem to prefer roller coasters, my favourite ride is a little gentler. Every time I go to Coney Island, Navy Pier, or the Santa Monica Pier, I absolutely have to ride the Ferris wheel.

The Ferris wheel is simple and yet also quite complex. That is, riding it is easy, but how it works is complicated. A series of carts are attached to a wheel, which is attached to a rim. That rim rotates vertically around an axis, and gravity keeps the carts upright. As simple as the ride seems, only advanced engineers can make safe and fun Ferris wheels. What it lacks is thrill. While the Ferris wheel is not as thrilling as a roller coaster, it is still very exciting. The fact of being high in the air makes it so much more entertaining than a lot of rides. I mean, how often do you hang from that high up in daily life?

Nevertheless, I have to admit, I don't seek Ferris wheels out because of their excitement. Rather, I find them very relaxing. At the top of the Ferris wheel, you get beautiful sights of the park. You also get a sense of calm that you don't get in the hustle and bustle of the park below. Additionally, Ferris wheels are also gorgeous to look at when they are lit up at night.

In fact, the original Ferris wheel was designed as much to be seen as to be ridden. It happened at the World's Fair The first Ferris wheel was made by and named after George Washington Gale Ferris, Jr. He designed it for the Chicago World's Fair in 1893. It was the tallest attraction there, standing 264 feet high. However, visitors to the fair were impressed by the size of the ride as well as the mechanics of it. In 1893, anything that was not turned by hand was considered a sight to see. And the wheel, which was a machine, was truly incredible to see. Further, as one visitor put it, the wheel was amazing because it seemed to be missing support. That is, it did not look like it could stand on its own. And yet it did and even rotated! Ferris

wheel technology has only improved since then.

Most of today's Ferris wheels are much larger than that first one. The largest in the world is the "Singapore Flyer," which stands slightly taller than twice what Ferris's did! Today, the Ferris wheel is the most common amusement park ride. But that does not mean you should take them for granted. Instead, be thankful for Ferris' invention. The next time you're at an amusement park, don't just look up at the impressive wheel in the sky on your way to a newer attraction.

1.1   **Choose the correct option to fill in the blanks:**   **1 x 4**

a It can be understood that Coney Island, Navy Pier, and the Santa Monica Pier are all examples of _____.

i) amusement parks   ii) Ferris wheels   iii) vacation spots   iv) boat docks

b What does the author like best about Ferris wheels?

i) the impressive engineering and beauty of them

ii) the excitement and thrills they guarantee

iii) the beautiful sights and relaxation they allow

iv) the fact that most amusement parks have one

c According to the passage, the Ferris wheel was originally designed for _____.

i) Coney Island   ii) the world's fair   iii) Disneyworld   iv) Singapore

d The tallest Ferris wheel in the world is _____.

i) under 250 feet tall

ii) between 250 and 500 feet tall

iii) between 500 and 750 feet tall

iv) over 750 feet tall

1.2   **Answer the following questions briefly.**   **2 x 4**

a Describe the working of Ferris Wheel?

b How does the author find Ferris Wheel relaxing?

c What did the visitor feel about Ferris Wheel? Why?

d **Find the antonym of the words**:

(i) simple   (ii) obsolete, from the passage.

2.   **Read the following poem carefully and answer the questions that follow.**

The pessimist's a cheerless man;
To him the world's a place of anxious
Thoughts and clouds and gloom;
Smiles visit not his face.

Though brightest sunshine floods the earth,
And flowers are all aglow,
He spreads depression where he can
By dismal tales of woe.
The pessimist's a hopeless man,

He is full of doubt and fear;
No radiant visions come to him
Of glad days drawing near.
The pessimist's a joyless man
He finds no sweet delight
In making this a happier world,
In fighting for the right.
He views the future with alarm
He sees no light ahead;
Most wretched of all men is he,
Because his hope is dead.

Answer the following questions briefly.   **2 x 4**

a According to the poem, who is a pessimist?

b How does a pessimist spread depression and unhappiness?

c Why is the pessimist called as 'the most wretched'?

d In which activities the pessimist find no delight?

Section-B (Writing)

3. **Develop a story in about 200 words with the given opening lines:**   **7**
One evening, I had to go to my village. I travelled by bus. Inside the bus, it was all crowded. Many passengers climbed on to the room…….

4. **Write a speech in about 150 words to be delivered in the morning assembly on 'Role of media in the society'.**   **7**

5. **You have participated in 'Voice of Unity' held in Gurgaon. Write an E-mail in about 120 words to your friend Rishi, sharing your experience.**   **6**

Section-C (Grammar)

6. **Do as directed.**   **1 x 5**

a Her performance in the Olympics did not match our expectations. She hasn't improved much in the recent past. **(Join with a conjunction)**

b In the field of research, the computer has proved immensely useful. It has become an indispensable tool for all kinds of scientific endeavour. **(Join with a conjunction)**

c He said to me, "Can you help me with my homework this evening?" **(Change into indirect speech)**

d The officer said to his team, "Search for the weapon used in crime." **(Change into indirect speech)**

My mother said, "What a huge building it is!" **(Change into indirect speech)**

7. **Fill in the blanks with appropriate words given in the brackets.** **1 x 4**

a You _____ not to go the meeting if you don't wish to.(need/should)

b I _____ swim a length pool.(can/dare)

c I love eating ice-cream as a _____. (desert/dessert)

d Rohan will _____ that the rooms are well furnished. (ensure/assure)

8. **Read and follow the instructions given in the brackets.** **1 x 4**

a Mr Shah avoided paying his taxes until it was too late. **(Identify Gerund or Participle)**

b Can you hear someone banging the door? **(Identify Gerund or Participle)**

c She is the lady who wants to buy that expensive car. **(Identify Main and Subordinate Clause)**

d The road that we travelled on has been recently constructed. **(Identify Main and Subordinate Clause)**

9. **Edit the passage given below. The first one has been done as an example.** **½ x 4**

	Incorrect	Correct
Long ago, before money is invented, people	is	was
use to obtain goods by bartering. To get an	_____	_____
axe, for example, they have to offer anything	_____	_____
in exchange. If the seller would not like what	_____	_____
was offered, it would be impossible to making	_____	_____
the exchange		

Section-D (Literature)

10. **Read the given lines from the poem and answer the following questions.** **1 x 3**

"Does your faith hold true when

The whole world's blue?

How are you playing the game?

a What do think the poet means by 'faith'?

b In what sense can the whole world be blue?

c Name the poem and the poet.

11. **Read the given lines from the passage and answer the following   1 x 3**
questions.
"I beg your honour to declare the verdict."

a Who uttered these words?

b When did the speaker make this request?

c Why was the speaker in such a haste for the judgment to be declared?

12. **Answer the following questions in 20-30 words.   2 x 8**

a What oath do you think Shylock 'made in heaven'?

b Why was a safe route marked out by glow sticks'?

c How are the victorious usually welcomed in the poem 'Inspiration'?

d Name any two things about the girl which the narrator found to be
particularly pleasant.

e What do you think the poet means by saying, 'it's getting late'?

f How was the setting up of the JRD and Thelma Tata Trust financed?

g Name any two inventions of Nobel mentioned in the passage.

h What do you think the poet is suggesting when he says, "Do something
more than make a noise'?

13. **Answer the following questions in 40-50 words.   3 x 3**

a What helped Sumanth Cidambi press on to the finish line and not give up
midway?

b How did JRD Tata prove that he was a true nation builder?

c What idea in the poem 'Life is a Game' do you think is the most important?

14. **Is 'The Merchant of Venice' a story of greed, jealousy or mercy?   4**
Justify your response in about 50-60 words.

Maths

Sample Question Paper - 1

Subject: Maths	Time Duration: 3 hrs.	M.M :80

General Instructions:

Q1-Q5 carry 2 marks each
Q6-Q 15 carry 3 marks each
Q16 –Q25 carry 4 marks each

_____

Q1. Solve by using suitable identity $(\frac{2x}{3} - \frac{1}{4}y)$ $(\frac{2x}{3} - \frac{1}{4}y)$

Q2. Factorise $y^2 - 4y - 96$

Q3. A polyhedron has 8 faces and 18 edges. How many vertices does it have?

Q4. Find x so that $2^x + 2^x + 2^x = 192$

Q5. A square of side 2cm is inscribed in a circle. Find the radius of the circle.

Q6. Factorise $25x^2 - 60xy + 36y^2 - 1$

Q7. Find the cost of painting 20 cylindrical pillars of height 3.5m and diameter 22cm at the rate of Rs 220/m^2.

Q8. A car takes 2 hours to reach a destination by travelling at the speed of 60Km/hr. At what speed should the driver drive so as to reach 30 minutes early?

Q9. Simplify $\frac{0.82 \times 0.82 + 2 \times 0.82 \times 0.18 + 0.18 \times 0.18}{0.82 \times 0.82 - 0.18 \times 0.18}$

Q10. How many cubes of side 2dm can be cut from a cube of side 3m?

Q11.Draw the line passing through (2,5), (5, 2), (4,3), (3,4). Find the coordinates of the points at which this line meets the x-axis and y-axis.

Q12. By what number should $(3/2)^{-3}$ be divided so that the quotient may be $(8/27)^{-2}$?
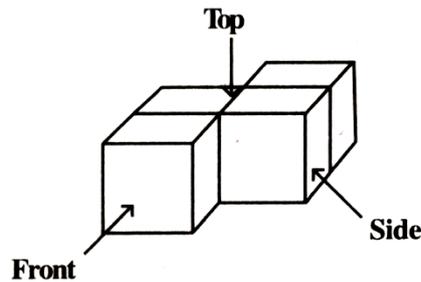
Q13. If 10x34 is a multiple of 3, where x is a digit, what might be the values of x?

Q14. Factorise $16a^4 - \frac{1}{81}$

      OR

    Factorise $x^4 - y^4 + x^2 - y^2$

Q15. Draw the three views of the given solid

Q16. Simplify $\dfrac{3^{-4} \times 10^{-5} \times 125^{-1}}{5^{-6} \times 6^{-4} \times 8^{-1}}$

Q17. Find by using suitable identity

    i)   502 x 497

    ii)   19.8 x 20.2

Q18. How many faces, edges and vertices does each of the following solids have? Also draw the figures

    i)   Octahedron   ii)   Pentagonal Prism

Q19. A cylindrical road roller is of length 250 cm and diameter 3.5 m. Find the number of revolutions it has to make to cover an area of 5500 m^2.

Q20. The ratio between the curved surface area and total surface area of a cylinder is 2:3. Find the volume of the cylinder, given that its total surface area is 924cm^2.

OR

    A field is 80 m long and 50 m broad. In one corner of the field a pit which is 10 m long, 7.5 m broad and 8 m deep has been dug out. The earth taken out of it is evenly spread over the remaining part of the field. Find the rise in the level of the field.

Q21. Divide 44 $(x^4 - 5x^3 - 24x^2)$ by 11x $(x^2 - 16x + 64)$

Q22. A 5 m 60 cm high vertical pole casts a shadow 3m 20 cm long. Find at the same time

    i)   The length of the shadow cast by another pole 10 m 50 cm high

    ii) The height of a pole which casts a shadow 5 m long.

Q23. Simplify

    i) $\left(\dfrac{256}{625}\right)^{-3/4} \times \left(\dfrac{125}{8}\right)^{-2}$

    ii) $\left[\left(\dfrac{1}{5}\right)^{-1} - \left(\dfrac{1}{6}\right)^{-1}\right]^{-1} \times (-1)^{-1}$
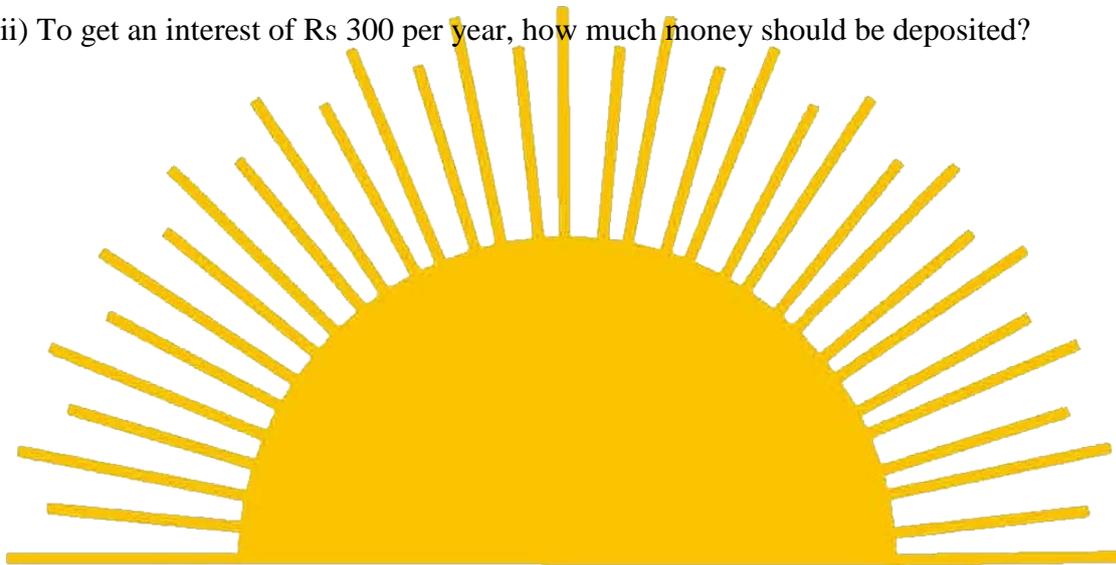
Q24. If x - $\dfrac{1}{x}$ = 5 , find the value of $x^4 + \dfrac{1}{x^4}$

Q25. Draw the graph for the following table of values

Interest on deposits for a year,

Deposit (in Rs)	1000	2000	3000	4000	5000
Simple interest (in Rs)	120	240	360	480	600

i) Does the graph passes through the origin?

ii) Use the graph to find the interest on Rs 3500 for a year.

iii) To get an interest of Rs 300 per year, how much money should be deposited?

Sample Question Paper -2

Subject: Maths	**Time Duration: 3 hrs.**	**M.M :80**

General Instructions:

Q1-Q5 carry 2 marks each

Q6-Q 15 carry 3 marks each

Q16 –Q25 carry 4 marks each

Q1. Factorise $4x^2 – 10xy - 6xz + 15yz$

Q2. Solve by using suitable identity $(\frac{2x}{3} + \frac{1}{4}y)^2 - (\frac{2x}{3} - \frac{1}{4}y)^2$

Q3. The dimensions of the cuboid is 1:2:3 and its total surface area is 88 m^2. Find its dimensions.

Q4. Find $(2^{-1} + 4^{-1} + 6^{-1})^{-1}$

Q5. Write the quotient when the difference of a 2-digit number 83 and the number obtained by reversing the digits is divided by

   i)   9   ii)   difference of the digits

Q6.Find the number of faces vertices and edges of a hexagonal prism and verify the Euler's formula for it.

Q7. Factorise $25x^2 - 25y^2 + 60y - 36$

Q8. At a particular time, the length of the shadow of Qutab Minar whose height is 72m is 80m. What will be the height of electric pole, the length of whose shadow at the same time is 1000 cm.

Q9. Find 1.06 x 9.4 by using suitable identity.

                        OR

Simplify $(\frac{3}{4}xy – 1)^2 - (\frac{3}{4}xy + 1)^2$

Q10. Two cubes each of volume 64 cm^3 are joined end to end. Find the total surface area of the resulting cuboid.

Q11. Draw a graph for the following

Side of the square(in cm)	2	3	4	5	6
Area(in cm^2)	4	9	16	25	36

Is it a linear graph?

Q12. Simplify $\left(\dfrac{16}{625}\right)^{\frac{-2}{4}} \times \left(\dfrac{243}{32}\right)^{-\frac{3}{5}}$

Q13. If 6x425 is a multiple of 3, where x is a digit, what might be the values of x?

Q14. Factorise $(x + y)^4 – (x- y)^4$

Q15. Water flows from a tank with a rectangular base measuring 80cm by 70cm into a tank with a square base of side 60cm.If the water in the first tank is 45cm deep, how deep will it be in the second tank?

Q16. Find m, if $\left(\dfrac{3}{4}\right)^3 \times \left(\dfrac{4}{3}\right)^{-5} \times \dfrac{16}{9} = (\dfrac{27}{64})^{m+1}$

Q17. Without actual multiplication, find the value of

$$\dfrac{5.93 \times 5.93 + 2 \times 5.93 \times 4.07 + 4.07 \times 4.07}{3.5 \times 3.5 – 1.5 \times 1.5}$$

Q18. A shopkeeper has enough money to buy 52 cycles worth Rs 525 each. How many cycles would he be able to buy with the same amount of money if

i) The price of each cycle is increased by Rs 21.
ii) The price of each cycle is reduced by Rs 70.

Q19. 30 circular plates, each of radius 14 cm and thickness 3cm are placed one above the other to form a cylinder, find

i) The total surface area   ii) volume of the cylinder so formed

Q20. Divide $240xy^2z^2 (x^4 – 256)$ by $160xyz(x – 4) (x^2 – 16x – 80)$

Q21. A small village having a population of 5000 requires 75 litres of water per head per day. The village has got an overhead tank of measurement 40 m x 25 m x 15 m. For how many days will the water of the tank last?
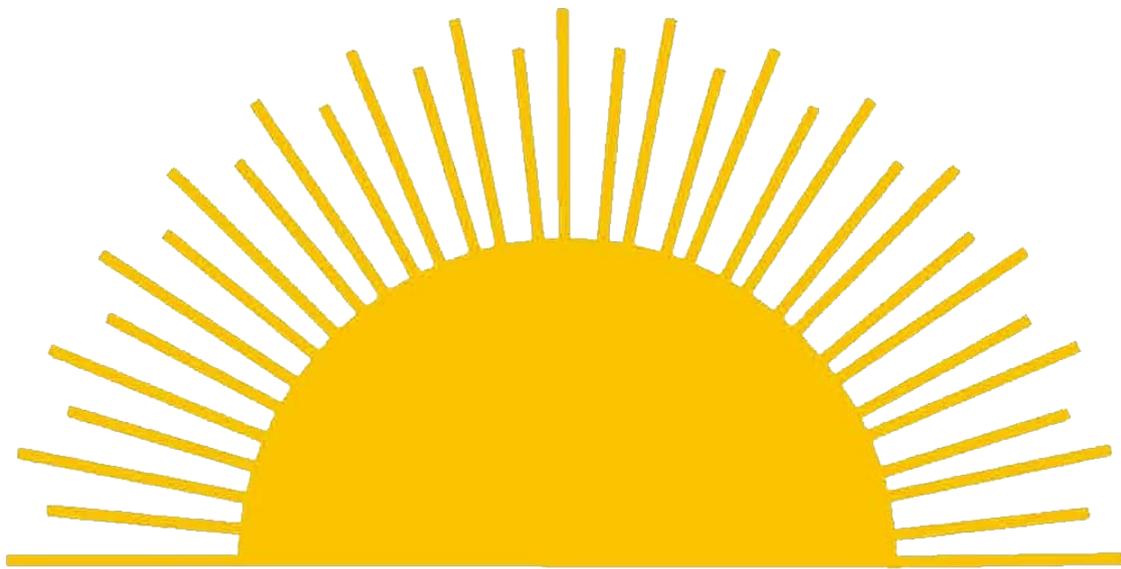
Q22. Ravi starts for his school at 7:20 a.m on his bicycle. If he travels at a speed of 10km/hr then he reaches his school late by 8 minutes but on travelling at 16km/hr he reaches the school 10 minutes early. At what time does the school starts?

Q23. Simplify $\dfrac{3^{-4} \times 6^{-3} \times 25^{-1}}{10^{-2} \times 16^{-1} \times 27^{-2}}$

Q24. If $x + \dfrac{1}{x} = 7$, find the value of $x^4 + \dfrac{1}{x^4}$

Q25. Rohan can drive a car at a uniform speed of 40 Km/hour. Draw a time-distance graph for this situation. Use it to find

   i)   The time taken by Rohan to drive 60 Km

   ii) The distance covered by Rohan in 3 hr 30 minutes.

SERVICE BEFORE SELF

Science

Sample Question Paper - 1

Subject: Science	Time Duration: 3 hrs.	M.M :80

1. **Give one word for the following:** 8x1=8

a) Friction force experienced by object when it moves through the fluids.

b) Number of vibrations of sound waves in one second.

c) A substance which burns to produce energy.

d) Type of force exerted due to oppositely charged bodies.

e) The smallest structural and functional unit of an organism.

f) Property by which metal is drawn into wires

g) Sounds having frequencies higher than 20,000 Hz.

h) Medicines that destroy disease causing microbes.

2. **Give correct reasons for the following:** 7x1=7

a) Polyfill pillows are preferred as compared to cotton pillows.

b) Metals like potassium and sodium are stored under kerosene oil.

c) Dry leaves easily catch fire as compared to wet leaves.

d) School bags with broader straps are preferred.

e) The outer part of candle flame appears blue in color.

f) Apples get spoilt but not the jam prepared from them.

g) Farmers should cover their mouth and nose while spraying weedicides on crops.

3. **Write any two differences with one example for each of the following:** 2x2=4

a) Static friction and sliding friction

b) Rapid combustion and explosion

4. **Identify the given diagram and answer the question that follows:** 3

a) Name the microorganism shown in the figure. 1

b) How does this microorganism help in fermentation? 1

c)   Name one commercial use of this microorganism.   **1**

5.   **Short answer questions:(20-30 words)**   **6x2=12**

a)   How does salting helps in food preservation?

b)   What is shrillness of sound? How does it vary in males and females?

c)   Write 2 conditions necessary for combustion.

d)   List two reasons why rayon is called regenerated fibre.

e)   Magnetic force is called noncontact force. Explain with example..

f)   Define reactivity series. Why sodium reacts with cold water but iron does not?

6.   **Answer in brief :(40-60 words)**   **5x3=15**

a)   What is echo? Write 2 applications of echo.   **1+2=3**

b)   What does vaccine consists of? How does vaccine helps in preventing the disease.   **1+2=3**

c)   Define ignition temperature. Calculate the amount of fuel used when 275,000 KJ of heat is produced on burning a fuel having calorific value 50000KJ/kg.   **1+2=3**

d)   Explain the working of spring balance with well labeled diagram.   **1+2**

e)   Plastics are menace in disguise. How can we reduce plastic waste in the environment. **3**

7.   **Long answer questions:(Attempt any three out of four)**   **3x5=15**

a) i   Explain with the help of activity that liquids exert same pressure in all directions at a given depth.   **3**

ii   What is the force acting on a circle of area $20m^2$ which produces a pressure of $60N/m^2$?   **2**

b) i   What is loudness of sound?   **1**

ii   How does loudness of sound varies with amplitude?   **2**

iii   The sound is produced by an object when it vibrates at average rate of 200 vibrations per second. What is the time period of vibration?   **2**

c) i   Define food poisoning.   **1**

ii   What are the causative agents which cause food poisoning?   **2**

iii   Write 2 ways to prevent food poisoning.   **2**

d) i   Name the product formed on burning of magnesium ribbon.   **1**

ii   Write word equation for the process taking place.   **2**

iii   How will you test the nature of oxide formed in the reaction?   **2**

8.   **Value based question:**   **2X2=4**

Dev is a farmer who works in the fields. His harvested crop got destroyed due to improper storage. His friend Mohit advised him about different methods of storage. He used those methods and saved his crops from spoilage.

    i   What are different methods of storing harvested crops?   **2**

    ii   What values are reflected from his advice.   **2**

    Activity based questions: **12**

9.   Ria added methylene blue solution to peeled scale of onion peel slide? What are the components of the cell observed under the microsope?   **2**
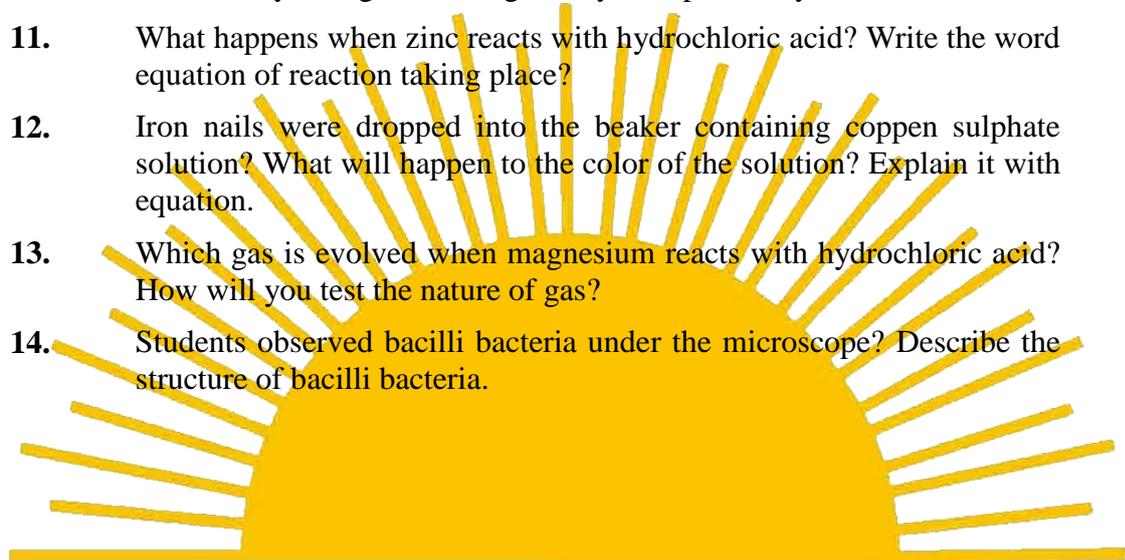
10.   Rohan placed a piece of iron in zinc sulphate solution. He did not observe any change occurring. Can you explain why?   **2**

11.   What happens when zinc reacts with hydrochloric acid? Write the word equation of reaction taking place?   **2**

12.   Iron nails were dropped into the beaker containing coppen sulphate solution? What will happen to the color of the solution? Explain it with equation.   **2**

13.   Which gas is evolved when magnesium reacts with hydrochloric acid? How will you test the nature of gas?   **2**

14.   Students observed bacilli bacteria under the microscope? Describe the structure of bacilli bacteria.   **2**

SERVICE BEFORE SELF

Sample Question Paper - 2

Subject: Science	Time Duration: 3 hrs.	M.M :80

Q1. **Give one word for the following:**   **1x8=8**

   i.   Contamination of air with unwanted and harmful substances..

  ii.   A unit of distance in astronomy.

 iii.   Angle between normal and incident ray.

  iv.   Variety of living organisms living in a specific area.

   v.   Waves generated by earthquake.

  vi.   The period of transition from childhood to adulthood.

 vii.   Process of releasing matured egg from the ovary.

viii.   The heredity units of chromosomes.
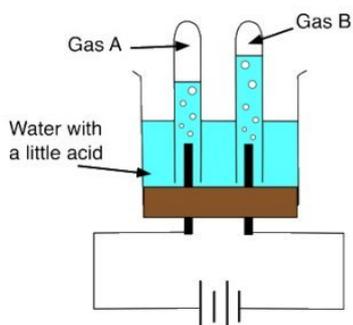
Q2. **Give reasons for the following:**   **1x7=7**

   i.   Chloroplasts are only found in plant cells.

  ii.   Acne and pimples occur during puberty stage.

 iii.   Overgrazing leads to desertification.

  iv.   Pure water does not conduct electricity.

   v.   Crackling sound is heard while taking off sweater in winters.

  vi.   Beautiful patterns are formed in a kaleidoscope.

 vii.   Pole star appears to be stationary from the earth.

viii.   Fertilizers are responsible for water pollution.

Q3. **Differentiate following:**   **2x2=4**

   i.   Regular and diffused reflection

  ii.   Asexual and sexual reproduction

Q4. **Observe the given activity and answer the following:**   **3**

   i   Name gas A and B evolved at electrodes   **1**

ii	What effects does current produces when it passes through the conducting solution.	**2**

Q5. **Answer the following in brief : (20-40 words)**   **2x6=12**

i. Describe the functions of nerve cell?

ii. Explain why food chain and food web are important for nature?

iii. What is seismograph?

Why endocrine glands are called ductless glands

Why distance is expressed in light years

Why distance between the stars is expressed in light years?

Q6. **Answer the following in brief : (40-60 words)**   **3x5=15**

i	Give three uses of artificial satellites	**3**
ii	a) What is blind spot?	**1+2**
	b) What are two kinds of sensory cells present in the retina of eye?	
iii	a) What is deforestation?	**1+2**
	b) Explain 2 consequences of deforestation	
iv	Describe various types of plastids?	**1+2**
v	What are sex hormones? State their functions	**1+2**

Q7. **Answer the following in detail :(Attempt any three out of four**   **3x5=15**

i	a) Define celestial objects.	**1**
	b) Describe surface of moon	**2**
	c) Explain how you can locate pole star with Ursa Major.	**2**
ii	a) Define electroplating	**1**
	b) Explain how electroplating of zinc on copper is done with the help of well labeled diagram?	**4**
iii	a) What is potable water?	**1**
	b) What is Ganga Action Plan?	**2**
	c) What steps are taken to restore Ganga its past glory?	**2**
iv	a) What is importance of Project Tiger?	**2+3**
	b) Describe three factors that has lead to extinction of wild species.	

Value based question

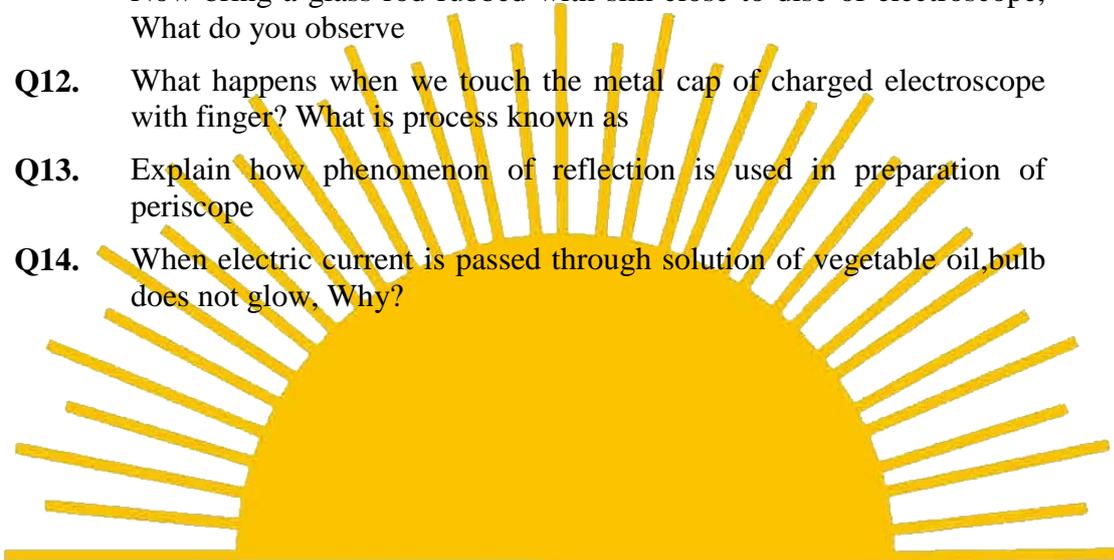|		
Q8.	When the level of contaminants in water reaches to such a level that water becomes harmful for living beings, it is called water pollution.	**3**
	Causes of Water Pollution are untreated Sewage, use of Fertilisers and	

insecticides.Practice of bathing and washing, Practice of cremating the dead bodies

- i   What is Ganga Action plan?

- ii   What are various ways to prevent water pollution?

Practical based questions

Q9.	Distilled water is not good conductor of electricity What substance is added to make it good conductor	**2**
Q10.	In process of purification of copper, which electrode is connected to the positive terminal of the battery	**2**
Q11.	Touch the disc of electroscope with a ebonite rod rubbed with fur. Now bring a glass rod rubbed with silk close to disc of electroscope, What do you observe	**2**
Q12.	What happens when we touch the metal cap of charged electroscope with finger? What is process known as	**2**
Q13.	Explain how phenomenon of reflection is used in preparation of periscope	**2**
Q14.	When electric current is passed through solution of vegetable oil,bulb does not glow, Why?	**2**

Social Science

Sample Question Paper - 1

Subject: Social Science	**Time Duration: 3 hrs.**	**M.M :80**

General instructions:-
- Attempt all questions.
- Questions carrying **1 mark** should not exceed **20 words.**
- Questions carrying **3 marks** should not exceed 6**0 words**.
- Questions carrying **5 marks** should not exceed **100-120 words.**

Section A - History

Q1. Which tribal group did Birsa belong to? **(1)**

Q2. How were Indians portrayed in the European Paintings? **(1)**

Q3. Name the flowers which were used by the tribals to colour clothes and leather. **(1)**

Q4. Mention two art forms that European artists brought with them. **(1)**

Q5. After Independence, why was there a reluctance to divide the country on linguistic lines? **(3)**

Q6. Write a short note on Tagore's "abode of peace". **(3)**

Q7. What is the significance of Dandi march in Indian history? **(3)**

Q8. **Read the source and answer the questions given below**: **(1+2=3)**

In 1823 the Company government in India received a petition from 2,000 weavers stating:

Our ancestors and we used to receive advances from the Company and maintain ourselves and our respective families by weaving Company's superior assortments. Owing to our misfortune, the aurangs have been abolished ever since because of which we and our families are distressed for want of the means of livelihood. We are weavers and do not know any other business. We must starve for food, if the Board of Trade do not cast a look of kindness towards us and give orders for clothes.

1. Explains the term urangs.

2. Why were the weavers in India thrown out of employment?

Q9. On a Political map of India identify, locate and mark the following:- **(4)**

1. A place from where the Revolt of 1857 broke out.

2. A place which was captured by Nana Saheb on 5thjune, 1857.

3. A place that was annexed by Sir Huge Rose on 3rd April, 1858.

4. A place from where the Revolt of 1857 led by Begum Hazrat Mahal.

Q10. Why do you think some artists wanted to develop a national style of art towards the end of nineteenth century? **(5)**

Q11. Why do we call India's Independence Movement a glorious revolution? **(5)**

Section B - Geography

Q12. **Give a technical terms for each of the following:-** **(1+1=2)**

    a) When a person enters a new country.

    b) An industry that uses plant and animal based products as their raw materials.

Q13. What do you understand by CITES? **(1)**

Q14. Why Bangalore is known as Silicon Plateau? **(1)**

Q15. Mention the important human factors that determine the land use in a region. **(3)**

Q16. The world population has grown very rapidly. Why? **(3)**

Q17. How is rainfall and vegetation inter related. Explain with the help of example? **(3)**

Q18. Describe the factors affecting distribution of population of the world. **(3)**

Q19. Distinguish between food crop and cash crop. **(5)**

Q20. Suggest some changes which can be brought under Indian agriculture to improve the production and quality. **(5)**

Section C-Political Science

Q21. Why do foreign companies come to India? **(1)**

Q22. What do you understand by Manual Scavanging? **(1)**

Q23. List three reasons why Adivasis are becoming increasingly marginalized. **(3)**

Q24. Why most of the hospitals and private schools ae located in major cities and not in towns and rural area? **(3)**

Q25. Briefly describe the religious belief of Adivasis. **(3)**

Q26. Write a short note on Article 21 of the Indian constitution. **(3)**

Q27. Would you agree with the statement that economic and social marginalization are interlinked? Why? **(5)**

Q28. How does the water supply for Chennai and nearby cities is maintained by private supplier? **(2+3=5)**

Sample Question Paper - 2

Subject: Social Science	Time Duration: 3 hrs.	M.M :80

General instructions:-

- ➢ Attempt all questions.
- ➢ Questions carrying **1 mark** should not exceed **20 words.**
- ➢ Questions carrying **3 marks** should not exceed 6**0 words**.
- ➢ Questions carrying **5 marks** should not exceed **100-120 words.**

Section A - History

Q1.	Who was the last Mughal Emperor in India?	**(1)**
Q2.	Which group dominated the Congress after its split in 1907?	**(1)**
Q3.	Who led the revolt of 1857 and what was the reason that led to their defeat?	**(1)**
Q4.	What were Company paintings?	**(1)**
Q5.	Describe the role and contribution of Ishwar Chand Vidyasagar in the emancipation of women.	**(3)**
Q6.	Explain the term Self Respect Movement.	**(3)**
Q7.	Why did Gandhiji choose to break the salt law?	**(3)**
Q8.	**Read the source given and answer the following question**:	**(1+1+1=3)**

Tarabai Shinde wrote:

Isn't a womans life as dear to her as yours is to you? It's as if women are meant to be made of something different from men altogether, made from dust from earth or rock or rusted iron whereas you and your lives are made from the purest gold. … You are asking me what I mean. I mean once a woman is husband has died … what is in store for her? The barber comes to shave all the curls and hair off her head, just to cool your eyes. … She is shut out from going to weddings, receptions and other auspicious occasions that married women go to. And why all these restrictions? Because her husband has died. She is unlucky: ill fate is written on her forehead. Her face is not to be seen, it's a bad omen.

1. From which literary evidence the above source is taken?
2. Why were restrictions imposed on widows?
3. How did a widow suffer after her husband's death?

Q9.	On an outline map of India, mark any four education centres during colonial period.	**(4)**
Q10.	Why did the scroll painters and potters come to Kalighat? Why did they began to paint new themes?	**(3+2=5)**

Q11. The Leadership of Revolt of 1857 was weak with no purpose and direction. What do you take from this statement. Analyse. **(5)**

Section B - Geography

Q12. **Give a technical terms for each of the following:-** **(1+1=2)**

    a) It is the number of years that an average person can expect to live.

    b) Primary industries that use mineral ores as their raw materials.

Q13. Why is the number of vultures reducing in the Indian sub-continent? **(1)**

Q14. Which are the factors that affect distribution of population? **(1)**

Q15. What is shifting cultivation? What are its disadvantages? **(1+2=3)**

Q16. Why cotton textile industry rapidly expanded in Mumbai? **(3)**

Q17. Distinguish between Agro-based and mineral based industry. **(3)**

Q18. What are the three vital conditions necessary for agricultural activities? **(3)**

Q19. What do you understand by 'geothermal energy'? In which form does it normally occur on the surface? Write three uses of it. **(1+1+3=5)**

Q20. What are population pyramids? How do they help in understanding about the population of a country? **(1+4=5)**

Section C-Political Science

Q21. What is meant by cognizable? **(1)**

Q22. Which state in India is having more than 60% of tribes? **(1)**

Q23. Write a short note on "water a part of Fundamental Right to life". **(3)**

Q24. Why is judiciary important for the functioning of the democracy in India? **(3)**

Q25. What does the Scheduled caste and Schedule tribes Act 1989 state about the slave labour? **(2+1=3)**

Q26. How was environment treated earlier? What has been the change in perception? Explain. **(1+2=3)**

Q27. How can law ensure that markets work in a manner that is fair? Explain with the help of an example. **(5)**

Q28. Do you think water is available in Chennai and affordable by all? Explain **(5)**