

# SET-A

Roll No.

Total No. of Printed Pages—15

**601 R**

( Regular )

Examination Date: **2023 (A)**  
Date of Exam: **E**  
Subject: **SCIENCE**

( For Students registered in 2021 )

Time: 3 hours

## SCIENCE

Full Marks : 100

Time : 3 hours

*The figures in the right hand margin indicate marks*

Ansible

Answer **all** questions

Questions requiring short answers must be

answered serially

Write the answers in your own words as far as practicable

1. Read the following extracts from the prescribed text and answer the questions that follow :

(a) Lack of teamwork and co-operation is one of the most serious problems affecting progress in all areas of India and wherever Indians work worldwide. The key problem in India is always implementation, not lack of policies. We have great policies and ideas about how to do things, but we severely lack teamwork.

When the Japanese came to work in India to develop the Maruti Suzuki car, a joke went around that one Indian was equal to 10 Japanese : Indians were very smart, capable and dedicated individuals. But 10 Indians were equal to 1 Japanese : Indians lacked team spirit and co-operation. What makes matters even worse is our 'crab' mentality—if someone is trying to climb higher and achieve more, the

others just drag him down. The signal that the others send out is, "I wouldn't do it, I wouldn't let you do it; and if by chance you start succeeding, we will all gang up and make sure that you don't get to do it."

The question is : Where does this attitude come from, and how do we recognize and handle it? Part of the problem is our cultural background. We've had feudal and a hierarchical social system in which whoever is senior supposedly knows the best. This was fine in earlier times when knowledge and wisdom were passed on orally; but in modern society, there is no way that one person can know everything. Today, you may find that a young computer-trained person has more answers for an accounting problem than a senior accountant has. Until we understand how best to leverage this diversity of experience,

we will not be able to create and fully utilize the right kind of teams.

Questions :

2x5=10

(i) What is one of the most serious problems affecting progress in India?

(ii) What is the key problem in India?

(iii) Why were ten Indians equal to one Japanese?

(iv) What is 'crab' mentality?

(v) What is a feudal and a hierarchical social system?

(b) Not enjoyment, and not sorrow,

Is our destined end or way;

But to act, that each tomorrow

Find us farther than today.

Art is long, and Time is fleeting,

And our hearts, though stout and brave,

Still, like muffled drums, are beating

Funeral marches to the grave.

In the world's broad field of battle,  
In the bivouac of Life,

Be not like dumb, driven cattle!

Be a hero in the strife!

Trust no Future, howe'er pleasant!

Let the dead Past bury its dead!

Act,—act in the living Present!

Heart within, and God o'erhead!

Lives of great men all remind us

We can make our lives sublime,

And, departing, leave behind us

Footprints on the sands of time;

Questions : 2x5=10

(i) What is not the destined end of human life?

(ii) How do our hearts beat?

(iii) What does the poet mean by "Be a hero in the strife"?

(iv) Why does the poet prefer the

'present' to the 'past' and the

'future'?

(v) What do the lives of greatmen remind people?

2. Read the following extract from the prescribed text and answer the questions that follow, each in about 70 words :

But the situation changed suddenly. I saw the minister and Sri Moharana coming out to the veranda. I did not know how Sri Moharana had explained the matter to the minister. But the minister was all to the minister. It was the most remarkable smile he had hitherto displayed. By then at least half a dozen caps had been procured for him. But he appeared with his head bare. Even to a boy like me it was obvious that his bald head wore an aura of martyrdom. No less than five thousand people had gathered before the specially constructed stage when the minister ascended it, that remarkable smile still clinging to his face. Sri Moharana's niece, the lone High-School-educated girl of the area, garlanded the minister. A prolonged thunderous applause greeted the event; for, that was the first time our people saw what they had only heard in the tales of the ancient Swayamvaras, a grown-up girl garlanding

a man in public. Then the chorus 'O mighty minister' was sung to the accompaniment of two harmoniums, a violin, and a khol. It had been tuned in the Kirtan style.

Then it was Sri Moharana's turn to say a few words of welcome as the Chairman of the Reception Committee. I saw him (I was standing just below the stage) moving his legs and hands in a very awkward fashion. Certainly that was nervousness. But with a successful exercise of will-power he grabbed the glittering mike and managed to speak for nearly an hour giving a chronological account of Babu Virkshore's achievements and conveying gratitude, on behalf of the nation, to the departed soul of the minister's parents but for whom the world would have been without the minister.

Questions :

5x2=10

(a) Give an account of the opening ceremony.

(b) Narrate Sri Moharana's maiden speech as the Chairman of the Reception Committee.

3. Read the passage given below and answer the questions that follow :

In the northern part of Greece, there stood a lofty mountain called Olympus. Its sides were covered with thick, green woods; and it was so high that its peak seemed to pierce through the clouds, up, up into the sky. None of the people of Greece had climbed to the top of Mount Olympus, and they said it was there that gods lived among the clouds and the stars. The people of Greece believed that if they did anything wrong it would displease the gods, and they would be punished by sickness or death or some other evil; but if they did what was right, the gods would be pleased and would love them and send them wealth and happiness. So they built great temples of marble, and in them they set up gold and ivory images of the gods. There they came in times of trouble to ask for help and comfort; and when they were

happy they came to offer up their thanks to the kind gods.

Questions :

2×5=10

(a) Where did the Mountain Olympus stand?

(b) What did the Greeks say about the Mountain Olympus?

(c) What did the people of Greece believe about wrong-doing?

(d) Why did they build great temples of marble?

(e) Why did people use to go to the temple in times of trouble?

4. (a) Find out words/expressions in the passage in Q. No. 3 which mean the following :

(i) of imposing height

(ii) go into or through something

(iii) to erect something in position

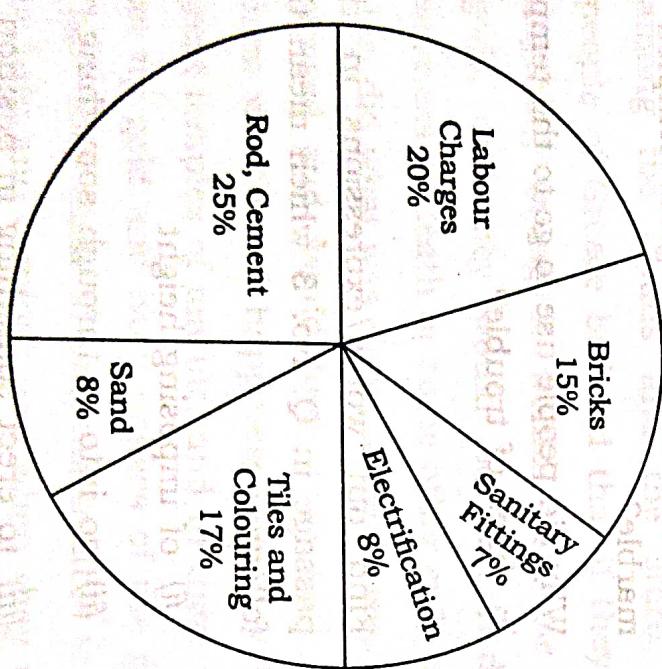
1×3=3

(b) Make sentences using the following :

(i) ask for

(ii) displease

5. The following pie-chart shows material and labour requirement (in percentage) for construction of a new house. Write a paragraph, in about 70 words, interpreting the information given in the chart.



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Meanings :

(i) price asked for goods  
 (ii) responsible possession  
 (iii) responsibility  
 (iv) rush forward and attack

(v) a formal claim

Sentences :

- He was arrested on a charge of theft.
- His charges are very high.
- He assumed the charge of the company in his brother's absence.
- The outgoing collector handed over charge to the sub-collector.
- A group of men charged at their rivals during a poll campaign.

6. A dictionary gives the following meanings for the word 'charge'. The meanings are followed by sentences in which the word has been used. Match each meaning with its corresponding sentence :

1x5=5

7. You are the mess secretary of the hostel of your school. The boarders have complained to you about the poor quality of food served to them and lack of sanitation. Write a report, in about 200 words, for submission to the Superintendent of the hostel.

Or

You are the news reporter of an English daily. Recently an under-construction ROB (Road Overbridge) collapsed causing the death of three workers and injury to several others. Write a report, in about 200 words, on the incident for publication in the paper you represent.

8. Make notes, in outline form, on the main ideas of the passage given below :

No civilized society can live without the press. A good press educates and helps in forming sound and healthy public opinion. It has direct communication with the masses and so can influence them both for destructive and constructive work. The favour or disfavour of the press can make or mar a politician's career. Through

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newspapers, the press gives us information about our day-to-day political, social and commercial activities. People also read informative articles on sports, science and literature. The editorial comments often serve as a guideline to the government for constructive work.

The press serves the great task of bringing about social reforms. Many of the social evils like untouchability, dowry system, communal feelings, and heinous activities are ruthlessly attacked and criticized by the press. Government servants as well as public high-ups are now more careful because of the fear of exposure by the press.

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The press is sometimes misused for harmful propaganda. Sometimes the press distorts or suppresses facts to mislead and confuse masses. In fact, the press is a two-way weapon. If used carefully, it can help in building up the nation forming the right public opinion. If misused, it can erode the very foundation of democracy.

9. Write a summary of the passage in Q. No. 8, basing it on the outlines you have made. 8

10. Write an essay, in about 250 words, on any one of the following topics, developing the outlines given : 10

Pollution of the Environment :

What is pollution—reasons behind pollution—pollution in atmosphere, of water, food, etc.—vehicular pollution—steps needed to reduce pollution—conclusion.

Achievements of Science :

Introduction—food production and supply—comfort in home life—communication—health—artificial satellites—abuses of science—conclusion.

11. Rewrite the following passage, correcting all the ten grammatical errors in it : 1×10=1

Einstein is very simple in his ways of life and indifferent from his great fame. Once the queen of Belgium invited him to Brussels. When he got up from the train,

he cannot think there were much gorgeously dressed officials to receive him at the station. The officials also expected to see him in aristocratic dresses. They never imagined that a shabby man will be Einstein himself. So they went back to the queen and informed her that he had not come in train. Einstein walked the whole way with the suitcase in one hand and a violin in the other. When he reached there the queen told him that she sent a car for him. The great scientist said, "But I assure you, I had greatly enjoyed the walk".

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