

**Sample Entrance  
Exam Paper**

**Grade-8**



**I. Read the following comprehension passage and answer the questions that follow:**

*Would you believe it?*

This story combines all the great mysteries and exciting discoveries of the sea, conjuring up visions of ancient sailors and sailing ships laden with riches. A Korean fisherman, on a small fishing boat, caught an octopus which had ancient pottery attached to its tentacles. This chance discovery is being hailed as one of the great undersea treasure finds of modern times.

Experts say the valuable pottery dates back to the 12th century. 5

The extraordinary discovery took place on what was for 58-year-old Mr Kim Yong-Chul 'another day at the office'. It began when he took his boat out, desperately hoping for a good catch of webfoot octopus, which is a delicacy in the Republic of Korea. On this particular day, after days of fishing with no luck, he decided to try somewhere new, a few kilometres south of his regular fishing spot. Casting out a long line, he felt a familiar tug and hauled up his first octopus of the 10 day. He was puzzled by several blue objects attached to its tentacles, and thought at first they were shells. A closer look revealed that they were pieces of pottery.

Oblivious to the fact that he had made an incredible discovery, he cast out his line again and again, bringing in more octopus with fragments of pottery attached to them. Finally, he brought one up with a whole plate caught up in its tentacles. By now, Mr Kim realised that there had to be something important deep below. He had heard that divers had found several shipwrecks filled with ancient treasure, including pottery, along the coast. On his return to shore, he got in touch with a museum, which sent officials to examine the pieces.

'You can imagine just how excited we were when we studied the remnants as well as the virtually perfect plate,' said one of the museum officials. 'We arranged for an urgent exploration of the seabed, and although we did not find a ship down there, we were able to find thirty 12th-century bowls.'

His colleague added, 'It seems that a ship carrying pottery was wrecked. The ship must have been transporting the pieces when it went down. Although other ships have been found and pottery recovered, this is the first time a family of octopuses has located a wreck for us!' 25

Mr Kim is to be rewarded by the museum for his discovery, but just what he will receive is being kept a secret for the time being.



1. Why was the pottery so important?

Give **two** reasons.

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[2]

2. Give **one** word from the first paragraph which tells you that Mr Kim found the pottery by accident.

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[1]

3. Look at the phrase ‘another day at the office’ (lines 6–7).

(a) What does this phrase suggest about Mr Kim?

Tick (✓) **one** box.

Mr Kim expected to have a normal working day.

Mr Kim used his fishing boat as his office.

Mr Kim was not satisfied with his job.

Mr Kim wished he worked in an office.

[1]

(b) Why has the writer put this phrase in inverted commas?

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[1]



4. What does the phrase ‘hailed up’ suggest about Mr Kim’s catch (line 10)?

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[1]

5. Explain in your own words the meaning of each of the following, as it is used in the text.

(a) ‘Oblivious’ (line 13)

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[1]

(b) ‘examine’ (line 18)

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[1]

6. Explain **two** ways in which the opening sentence (‘This story combines ...’) tries to gain the reader’s attention.

Support each explanation with a different word or phrase from the opening sentence.

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[2]

7. Identify **two** features of a newspaper article, as shown in **Text A**.

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8. What is the main purpose of **Text A**?

Tick (9 ) **one** box.

to describe the hard life of a poor fisherman

to explain how pottery was used in the past

to inform you about an unusual discovery

to teach you that honesty brings rewards

**II. Read the following story extract and answer the questions that follow:**

**The wonderful wizard of Oz – extract**

1. Look at the paragraph which begins: ‘There were few birds ...’ How can you tell that Toto is scared? Give two reasons. ( 2 )

2, '... there came from the forest a terrible roar, and the next moment a great lion bounded into the road.' What are your first impressions of the lion? What word or words give you this idea? (2 )

All this time Dorothy and her companions had been walking through the thick woods. The road was still paved with yellow brick, but these were much covered by dried branches and dead leaves from the trees, and the walking was not at all good.

There were few birds in this part of the forest, for birds love the open country where there is plenty of sunshine. But now and then there came a deep growl from some wild animal hidden among the trees. These sounds made the little girl's heart beat fast, for she did not know what made them; but Toto knew, and he walked close to Dorothy's side, and did not even bark in return.

"How long will it be," the child asked of the Tin Woodman, "before we are out of the forest?"

"I cannot tell," was the answer, "for I have never been to the Emerald City. But my father went there once, when I was a boy, and he said it was a long journey through a dangerous country, although nearer to the city where Oz dwells the country is beautiful. But I am not afraid so long as I have my oil-can, and nothing can hurt the Scarecrow, while you bear upon your forehead the mark of the Good Witch's kiss, and that will protect you from harm."

"But Toto!" said the girl anxiously. "What will protect him?"

"We must protect him ourselves if he is in danger," replied the Tin Woodman.

Just as he spoke there came from the forest a terrible roar, and the next moment a great Lion bounded into the road. With one blow

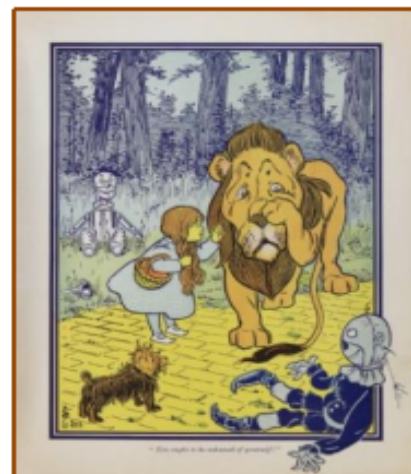
of his paw he sent the Scarecrow spinning over and over to the edge of the road, and then he struck at the Tin Woodman with his sharp claws. But, to the Lion's surprise, he could make no impression on the tin, although the Woodman fell over in the road and lay still.

Little Toto, now that he had an enemy to face, ran barking toward the Lion, and the great beast had opened his mouth to bite the dog, when Dorothy, fearing Toto would be killed, and heedless of danger, rushed forward and slapped the Lion upon his nose as hard as she could, while she cried out:

"Don't you dare to bite Toto! You ought to be ashamed of yourself, a big beast like you, to bite a poor little dog!"

"I didn't bite him," said the Lion, as he rubbed his nose with his paw where Dorothy had hit it.

"No, but you tried to," she retorted. "You are nothing but a big coward."





3. Compare Toto's reaction here to his behaviour at the start of the passage (refer back to Q1). How is it similar or different? (2)

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.....

<p>"I know it," said the Lion, hanging his head in shame. "I've always known it. But how can I help it?"</p> <p>"I don't know, I'm sure. To think of your striking a stuffed man, like the poor Scarecrow!"</p> <p>"Is he stuffed?" asked the Lion in surprise, as he watched her pick up the Scarecrow and set him upon his feet, while she patted him into shape again.</p> <p>"Of course he's stuffed," replied Dorothy, who was still angry.</p> <p>"That's why he went over so easily," remarked the Lion. "It astonished me to see him whirl around so. Is the other one stuffed also?"</p> <p>"No," said Dorothy, "he's made of tin." And she helped the Woodman up again.</p> <p>"That's why he nearly blunted my claws," said the Lion. "When they scratched against the tin it made a cold shiver run down my back. What is that little animal you are so tender of?"</p> <p>"He is my dog, Toto," answered Dorothy.</p> <p>"Is he made of tin, or stuffed?" asked the Lion.</p> <p>"Neither. He's a - a - a meat dog," said the girl.</p> <p>"Oh! He's a curious animal and seems remarkably small, now that I look at him. No one would think of biting such a little thing, except a coward like me," continued the Lion sadly.</p> <p>"What makes you a coward?" asked Dorothy, looking at the great beast in wonder, for he was as big as a small horse.</p> <p>"It's a mystery," replied the Lion. "I suppose I was born that way. All the other animals in the forest naturally expect me to be brave, for the Lion is everywhere thought to be the King of Beasts. I learned that if I roared very loudly every living thing was frightened and got out of my way. Whenever I've met a man I've been awfully scared; but I just roared at</p>	<p>him, and he has always run away as fast as he could go. If the elephants and the tigers and the bears had ever tried to fight me, I should have run myself - I'm such a coward; but just as soon as they hear me roar they all try to get away from me, and of course I let them go."</p> <p>"But that isn't right. The King of Beasts shouldn't be a coward," said the Scarecrow.</p> <p>"I know it," returned the Lion, wiping a tear from his eye with the tip of his tail. "It is my great sorrow, and makes my life very unhappy. But whenever there is danger, my heart begins to beat fast."</p> <p>"Perhaps you have heart disease," said the Tin Woodman.</p> <p>"It may be," said the Lion.</p> <p>"If you have," continued the Tin Woodman, "you ought to be glad, for it proves you have a heart. For my part, I have no heart; so I cannot have heart disease."</p> <p>"Perhaps," said the Lion thoughtfully, "if I had no heart I should not be a coward."</p> <p>"Have you brains?" asked the Scarecrow.</p> <p>"I suppose so. I've never looked to see," replied the Lion.</p> <p>"I am going to the Great Oz to ask him to give me some," remarked the Scarecrow, "for my head is stuffed with straw."</p> <p>"And I am going to ask him to give me a heart," said the Woodman.</p> <p>"And I am going to ask him to send Toto and me back to Kansas," added Dorothy.</p> <p>"Do you think Oz could give me courage?" asked the Cowardly Lion.</p> <p>"Just as easily as he could give me brains," said the Scarecrow.</p> <p>"Or give me a heart," said the Tin Woodman.</p> <p>"Or send me back to Kansas," said Dorothy.</p> <p>"Then, if you don't mind, I'll go with you," said the Lion, "for my life is simply unbearable without a bit of courage."</p>
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4. Choose one or two short quotations that show the readers that Dorothy is brave. ( 2)

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.....

5. The Lion asks Dorothy: “What is that little animal you are so tender of?”  
What do you think it means to be ‘tender of’ something? ( 2)

.....  
.....

6. Dorothy accuses the lion of being “nothing but a big coward”. Why? ( 2)

.....  
.....

7. Look at the following line from the extract:

“What makes you a coward?” asked Dorothy, looking at the great beast in wonder, for he was as big as a small horse.’

Does Dorothy seem (a) surprised, or (b) amused, or (c) shocked that the Lion is a coward?

.....

Select one detail from the text to support your answer. (2)

.....  
.....

8. Rank the characters (Scarecrow, Lion, Dorothy, Toto, Tin Woodman) in order from most brave to most cowardly, and explain your answer. (2)

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**Section B: Writing**

III. Write an article persuading young people to join after-school clubs in their area (10 marks)

Think about:

- the type of activity in the club (drama, sports, painting, volunteering etc)
- what you need for the activity
- persuading your friend why it is a better activity in comparison to spending time in social media
- any helpful tips.

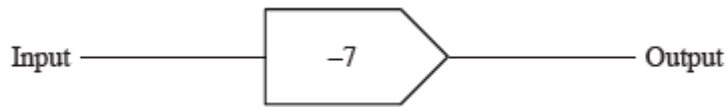
Space for your plan:







Q1. Here is a function machine.



Find the output when the input is 5.

Q2. Solve.

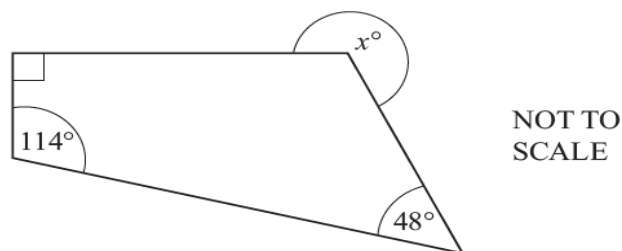
$$3x - 7 = 44$$

Q3. Team A has won 13 out of 20 matches. Team B has won 15 out of 25 matches. Which team has won a higher percentage of their matches?

Q4. Write the missing number in the box.

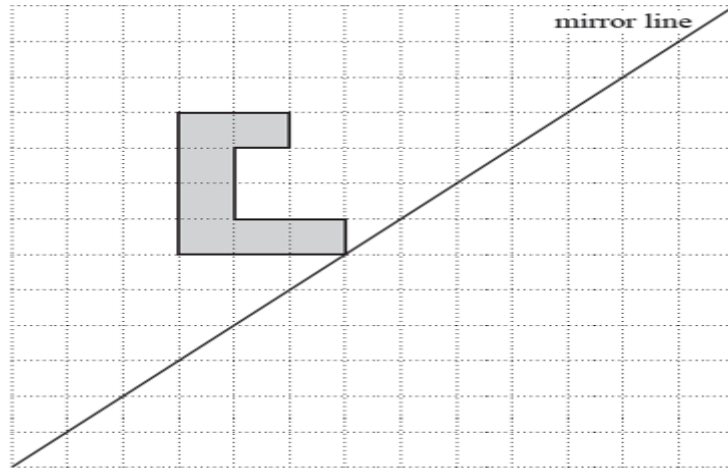
$$3340 - \boxed{\phantom{0000}} = 2840$$

Q5. Work out the value of  $x$ .

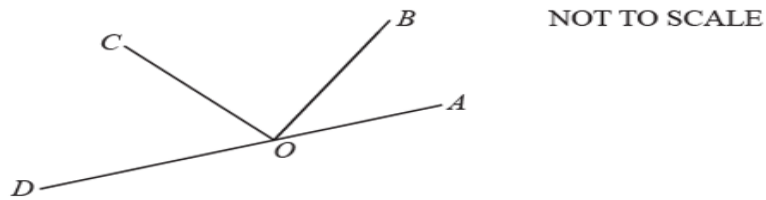


Q6. A 3D shape has 2 faces and 1 curved surface. Write down the name of this shape.

Q7. The diagram shows a shape drawn on a square grid. Draw the reflection of the shape in the mirror line.



Q8. This diagram shows three angles on line AD. Angle AOB =  $40^\circ$ . Angle BOC is a right angle. Work out the size of angle COD.





**INSTRUCTIONS :**

Answer all questions. The test has two parts. Question I and II .

Question I contains 11 Choose the correct answer.

Question II consists of open-ended questions. Write suitable answers to Question II.

The total marks of the test are 50.

**Question I**

**Circle the answer that best completes the statement or answers the question.**

[1x11=11]

1. In your body an organ is :

- a) different tissues working together      b) different organs working together  
c) different cells working together      d) different organisms working together

2. A separation method used to separate salt from sea water:

- a) Simple distillation      b) Chromatography  
c) Sieve      d) Filtration

3. The life processes are movements, respiration, growth, sensitivity, excretion, nutrition and

- a) reproduction      b) photosynthesis  
c) replication      d) stem

4. Kidney is an organ in which of these organ systems

- a) excretory system      b) respiratory system  
c) circulatory system      d) reproductive system



5. Infectious disease is one that

- a) spread through food
- b) spread through person to person
- c) cannot be treated
- d) that causes a rash

6. Tuberculosis is caused by

- a) fungi
- b) yeast
- c) bacteria
- d) viruses

7. Which of these is a Discovery made by Louis Pasteur?

- a) foods make microorganisms
- b) microorganisms from the air cause food to go bad.
- c) microorganisms only reproduce when inside other living organisms.
- d) microorganisms are not living things.

8. State whether each of the following describes continuous or discontinuous variation in humans:

- a) length of hair
- b) wearing glasses
- c) having a scar

9. Variation that does not has a limited range of options is

- a) characteristic
- b) continuous
- c) discounted
- d) discontinuous

10. Materials in which state of matter can be compressed?

- a) Only liquids
- b) Only gases
- c) Liquids and gases
- d) Solids, liquids and gases

11. Which one of these is a chemical property of materials?

- a) Hardness
- b) Colour
- c) How quickly it reacts with water
- d) How well it conducts electricity

## Question II

**Answer the following questions:**

1. Name the energy type involved in the following : [2]

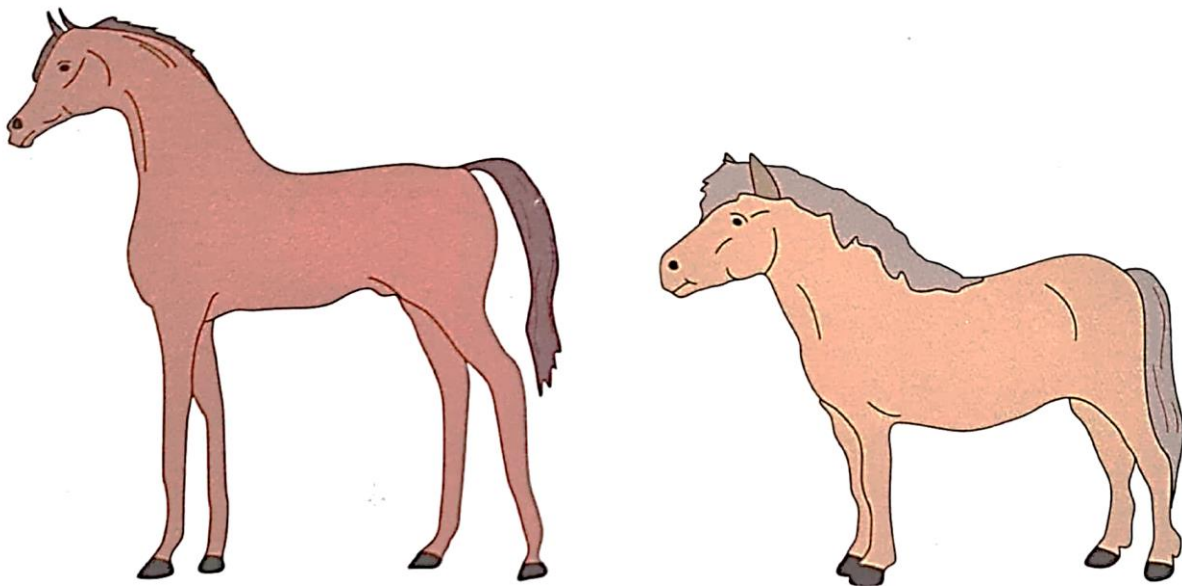
a) Battery

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b) Whistling noise

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2. The picture below shows two different types of pony [2]



i) Describe a **similarity** in the characteristics of the two ponies.

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ii) Describe a **difference** in the characteristics of the two ponies.

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3. What force stops our feet from slipping?

\_\_\_\_\_ [1]

4. What forces act on a falling leaf?

\_\_\_\_\_, \_\_\_\_\_ [2]

5. Give two reasons why Pluto is no longer counted as a planet?

\_\_\_\_\_  
\_\_\_\_\_ [2]

6. Heat is transferred in each of the following processes. State in which of them the heat is a useful energy output, and in which it is wasted.

a. Baking a cake in an oven. \_\_\_\_\_

b. Using electric saw. \_\_\_\_\_ [2]

7. Copy and complete the following sentences about indicators and pH.

Universal indicator is an example of an indicator; it turns different colours in acids

and alkalis. Universal indicator turns \_\_\_\_\_ if it is in an acid and it

turns \_\_\_\_\_ if it is in an alkali.

When an acid and an alkali react together to produce a \_\_\_\_\_ solution. This

has a pH of \_\_\_\_\_. This type of reaction is called \_\_\_\_\_. [4]

8. Level 2 students were discussing what happens to a liquid when it freezes.

Jack: The liquid particles will turn into solid particles.

Mira: The particles will stay the same.

a. Which student is correct? \_\_\_\_\_ [1]

b. Describe what happens to the particles when a liquid freezes.

\_\_\_\_\_  
\_\_\_\_\_ [2]

9. Describe one characteristic of insects and arachnids that is

a. similar: \_\_\_\_\_

b. different: \_\_\_\_\_ [2]

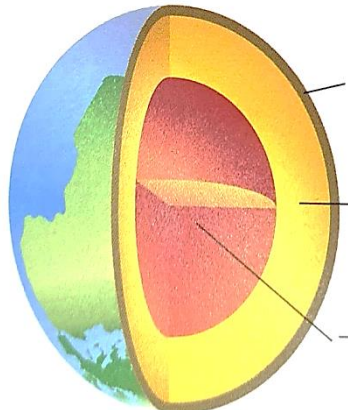
10. You need to find out if a specimen of tissue is from a plant or an animal.

a. What piece of equipment will you use? \_\_\_\_\_ [1]

b. How will you decide where the cells are from? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_ [2]

11. Label the arrows in the diagram. [3]





**12.** This list shows things which some living organisms can do.

breath- make their own food-reproduce

a. Choose two things an animal can do.

\_\_\_\_\_, \_\_\_\_\_

[2]

b. Choose one thing an animal cannot do. \_\_\_\_\_

[1]

**13** Red blood cell is a type of specialised cell.

a.Explain one function of a red blood cell

\_\_\_\_\_

[1]

b.Explain one way this cell is adapted to its job.

\_\_\_\_\_

\_\_\_\_\_

[1]

**14.** Complete the sentences using words from the list.

[4]

{biomass-species -different – similar-eats - energy }

A \_\_\_\_\_ is a type of organism. Organisms within a species have

\_\_\_\_\_ features .

A food chain shows what \_\_\_\_\_ what in a habitat. It also shows how

\_\_\_\_\_ flows through organisms in a habitat.

**15.** Kareem is investigating conditions that affect yeast. He adds different amounts of sugar to the bread mix containing yeast.



a. Which of the following is a suitable prediction for this investigation? [1]

1. Yeast needs sugar to survive
2. Adding more yeast will make the bread mix increase in volume
3. Adding more sugar will increase the volume of the bread mix
4. The more sugar the more the bread mix increases in volume.

Kareem's results are shown in the table below,

Mass of sugar added (g)	Increase in volume of bread mix after 30 minutes(cm)	
	Trial 1	Trial 2
0	2	3
5	8	9
10	12	11
15	18	17

b. Write a conclusion for Kareem's results.

The more \_\_\_\_\_, the more \_\_\_\_\_ [1]

c. Write an explanation for Kareem's results.

\_\_\_\_\_  
\_\_\_\_\_ [2]