

**Sample Entrance
Exam Paper**

Grade-7



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

Extreme sports

Definition

Extreme sports involve a high level of danger – whether it’s jumping from an aircraft, performing daring mid-air flips on a skateboard, or climbing up a vertical rock face. Great speed, height or depth is what makes the sport extreme. To do any extreme sport, a person needs to be strong and skilful; extreme sports push people to their physical and mental limits.

History

Most extreme sports are new sports, but some have been around for a very long time. Rock climbing as a sport dates from the 1880s, but, of course, climbing rocks has been a necessity throughout history for people who live in mountainous areas. Bungee jumping* developed from land diving, which has been done for thousands of years. Tribesmen in Vanuatu use land diving to test the courage of young men.

Equipment

Many extreme sports use specialised equipment designed to keep the people doing them safe. Such equipment may include ropes, helmets, pads and lifejackets. Wearing the right protective gear can prevent serious injuries. The kit needs to be strong enough to withstand the extreme conditions and specific to the needs of each sport.

Popularity

Extreme sports are becoming very popular. In fact, activities such as mountain biking and snowboarding are attracting larger numbers every year, whereas fewer people are doing traditional sports like basketball, because taking part in extreme sport gives a person an amazing rush of excitement, and challenges their fears. Moreover, new research shows that people who do extreme sports have better physical and mental health. They become more confident and motivated in their daily lives.

Glossary

bungee jumping: jumping from a great height while attached to a rope



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Max Marks: 40

1. What makes an extreme sport different from an ordinary sport?

2. Why is a semicolon (;) used in lines 3-4?

3. Which extreme sport is related to a custom carried out by people from Vanuatu?

4. Explain why special equipment is needed to take part in extreme sports. Give **two** reasons. [2]

5. Give **two** words from the third paragraph (lines 10-13) that mean the same as 'equipment'. [2]

6. The sports chosen for the X Games are not always the same every year. Give the phrase from the fourth paragraph (lines 14-16) that tells us this. [1]

7. Connective words are used to structure the fifth paragraph (lines 17-22). The table below shows why each connective is used.



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Complete the table with connectives from the fifth paragraph.

Reason	Connective
to add another idea	Moreover
to give the reason for an idea	
to introduce an opposite idea	
to emphasise an idea	

8 Text A uses paragraphs with subheadings.

(a) Give **one** reason why subheadings are used in this text. [1]

(b) Look at the subheadings used in **Text A**.

Write a subheading that is suitable for the fourth paragraph.

[1]

III. Read the following story extract and answer the questions that follow: The wonderful wizard of Oz – extract

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

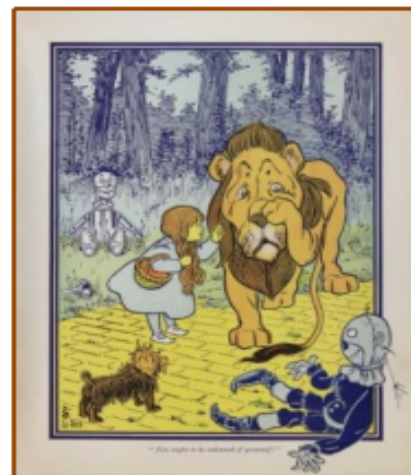
of his paw he sent the Scarecrow spinning over and over to the edge of the road, and then he struck at the Tin Woodman with his sharp claws. But, to the Lion's surprise, he could make no impression on the tin, although the Woodman fell over in the road and lay still.

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."





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

.....

.....

“I know it,” said the Lion, hanging his head in shame. “I’ve always known it. But how can I help it?”

“I don’t know, I’m sure. To think of your striking a stuffed man, like the poor Scarecrow!”

“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.

“Of course he’s stuffed,” replied Dorothy, who was still angry.

“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?”

“No,” said Dorothy, “he’s made of tin.” And she helped the Woodman up again.

“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?”

“He is my dog, Toto,” answered Dorothy.

“Is he made of tin, or stuffed?” asked the Lion.

“Neither. He’s a - a - a meat dog,” said the girl.

“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.

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

“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

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.”

“But that isn’t right. The King of Beasts shouldn’t be a coward,” said the Scarecrow.

“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.”

“Perhaps you have heart disease,” said the Tin Woodman.

“It may be,” said the Lion.

“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.”

“Perhaps,” said the Lion thoughtfully, “if I had no heart I should not be a coward.”

“Have you brains?” asked the Scarecrow.

“I suppose so. I’ve never looked to see,” replied the Lion.

“I am going to the Great Oz to ask him to give me some,” remarked the Scarecrow, “for my head is stuffed with straw.”

“And I am going to ask him to give me a heart,” said the Woodman.

“And I am going to ask him to send Toto and me back to Kansas,” added Dorothy.

“Do you think Oz could give me courage?” asked the Cowardly Lion.

“Just as easily as he could give me brains,” said the Scarecrow.

“Or give me a heart,” said the Tin Woodman.

“Or send me back to Kansas,” said Dorothy.

“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.”



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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)

.....
.....

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)

.....
.....

4. Choose one or two short quotations that show the readers that Dorothy is brave. (2)

.....
.....

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.'



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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)

.....

.....

.....

.....

Good Luck! :)



Q1: Write the next numbers in the sequence.

Sequence: -35, -27, -19, _____, _____, _____, _____

Sequence: 17, 10, 3, _____, _____, _____, _____

Q2: write suggestions for the numbers in the column and complete the table.

Numbers	Rounded to the nearest 10	Rounded to the nearest 100	Rounded to the nearest 1000
	67800		68000
		73900	74000

Q3. Write down the value of the underlined digits. Also write the value in the expanded form.

97210

Underlined digit Value: _____

Expanded Form: _____

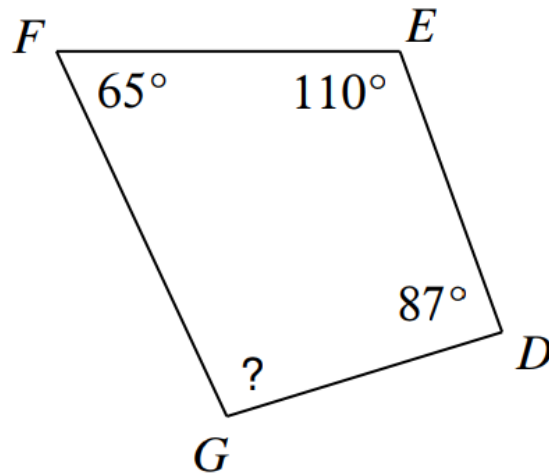
43733

Underlined digit Value: _____

Expanded Form: _____



Q4: Here is a quadrilateral.



Measure the marked angle and write here _____

Q5: Calculate the number of minutes in 2.6 hours.

1 hour = _____ minutes

2.6 hours = _____ minutes.

Q6: Use $>$, $<$ or $=$ and fill in the blanks.

$$\frac{3}{4} \bigcirc \frac{1}{4}$$

$$\frac{5}{7} \bigcirc \frac{6}{7}$$

$$\frac{2}{10} \bigcirc \frac{8}{10}$$

$$\frac{2}{6} \bigcirc \frac{2}{3}$$

$$\frac{1}{2} \bigcirc \frac{5}{8}$$

$$\frac{5}{18} \bigcirc \frac{1}{3}$$

Q7a: Write a common factor of 15 and 30

Q7b: Write a common multiple of 240 and 360



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Q8: Smith asks 24 students how they travel to a field trip.

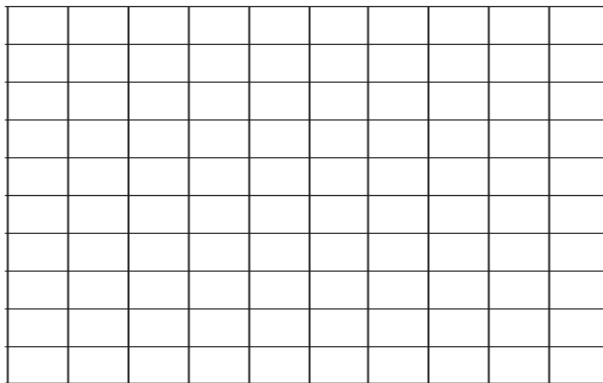
Here are the results.

How Student travel	Number of students
Walk	8
Bus	4
Car	5
Bicycle	7

(a) Calculate the percentage of the students who travel to school by bicycle.

_____ %

(b) Shade the waffle diagram to show the result for students who walk to school.



Q9: Write the possible equivalent fractions.

$$\frac{3}{4} = \text{---} = \text{---} = \text{---}$$

$$\frac{2}{3} = \text{---} = \text{---} = \text{---}$$

Q10: Add mixed numbers.

$$3\frac{3}{9} + 2\frac{1}{6} =$$

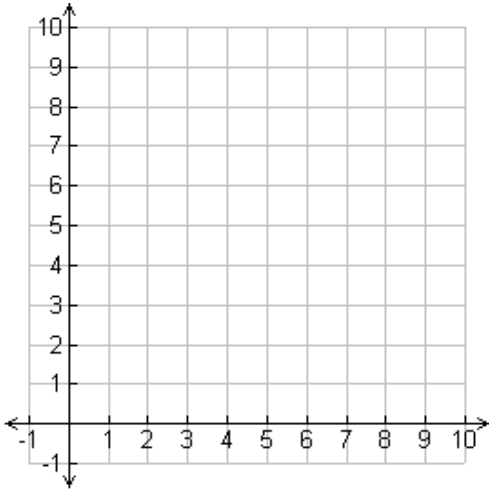
$$1\frac{1}{3} + 4\frac{5}{4} =$$



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Q11: Plot the following points to form a kite.

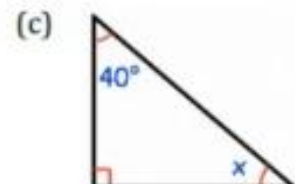
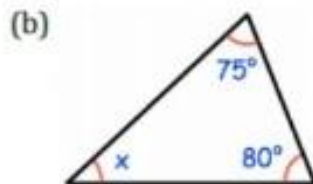
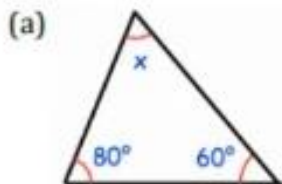
A (1,5), B (5,9), C (5,3), D (9,5)



Q12: Define the following terms also draw its shape.

- 1) Isosceles
- 2) Equilateral
- 3) Scalene

Q13: Find the unknown angles.





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Q14: Decimals:

<u>Adding</u> $2.4 + 3.3 =$ $12.7 + 2.8 =$ $6.72 + 5.49 =$ $245.987 + 16.204 =$ $34.69 + 72.507 =$	<u>Subtracting</u> $7.4 - 3.3 =$ $15.7 - 2.8 =$ $6.79 - 5.42 =$ $45.53 - 16.69 =$ $94.609 - 72.517 =$
<u>Multiplying</u> $2.4 \times 3 =$ $12.7 \times 5 =$ $6.72 \times 10 =$ $2.4 \times 6.2 =$ $4.8 \times 5.9 =$	<u>Dividing (with calculator)</u> $2.4 \div 3 =$ $12.5 \div 5 =$ $68.5 \div 10 =$ $12.4 \div 1.2 =$ $4.8 \div 0.4 =$



INSTRUCTIONS :

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

Question I contains 10 True and false statements.

Question II contains 15 choose the correct answer.

Question III contains open answer questions.

The total marks of the test are 30.

GOOD LUCK! 

Question I:

Indicate whether the statement is true or false.

1. Copper is a metal and is a conductor of electricity.
 - a. True
 - b. False

2. An organism that prepares its own food is known as a producer.
 - a. True
 - b. False

3. Consumers feed on dead things in the food chain.
 - a. True
 - b. False

4. An atom that loses an electron becomes negatively charged.
 - a. True
 - b. False



5. Cardiac, skeletal, and smooth cells are examples of muscle tissues.

- a. True
- b. False

6. Bone, cartilage, and tendons are examples of connective tissues.

- a. True
- b. False

7. Parasites cannot affect humans.

- a. True
- b. False

8. A balloon filled with helium gas will shrink in size when placed in a cold environment.

- a. True
- b. False

9. Elements on the far left of the periodic table are classified as metals.

- a. True
- b. False

10. The metric unit which measures force is the newton.

- a. True
- b. False



Question II:

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

1. Organisms that get their energy by eating plants or animals .
a. soil b. sunlight c. consumers d. producers

2. Grass hopper is a primary consumer. It is also known as a
a. Producer
b. Decomposer
c. Carnivore
d. Herbivore

3. During periods of strenuous exercise, cells produce
a. oxygen b. glucose
c. carbon dioxide d. lactic acid

4. Which is a basic requirement for a population to grow and thrive?
a. food b. water
c. shelter d. All of the above

5. Fossil fuels are,
a. non renewable resources b. renewable resources
c. alternative resources d. inexpensive resources



6. Groups of similar tissues that do the same sort of work are _____

- a. organs
- b. organ systems
- c. tissues
- d. Cells

7. Where does cellular respiration take place ?

- a. in lungs
- b. in mitochondria
- c. in chloroplasts
- d. in cytoplasm

8. A _____ shows the relationships among all species in an ecosystem.

- a. environmental change
- b. energy pyramid
- c. food chain
- d. food web

9. Some animals conserve energy during the winter by _____.

- a. Photosynthesis
- b. migrating
- c. transforming
- d. hibernating

10. Which law states that energy is never created or destroyed?

- a. Newton's first law.
- b. The law of conservation of energy.
- c. Newton's second law.
- d. Newton's third law.



11. Examples of non contact forces

- a. magnetic force
- b. Gravitational force
- c. Friction
- d. both a and b

12. The flow of energy between objects that have different temperatures is

- a. Matter
- b. potential energy
- c. calories
- d. heat

13. The color, odor, and density of a substance are all

- a. imagined properties
- b. material properties
- c. physical properties
- d. chemical properties

14. What are the smallest particles of an element that have the same chemical properties as the element?

- a. Atoms
- b. molecules
- c. Protons

15. Which is an example of transforming light energy into chemical energy ?

- a. Filling a car with a gas
- b. A flower growing outside
- c. A lightning bug glowing
- d. turning on a light switch

Question III:

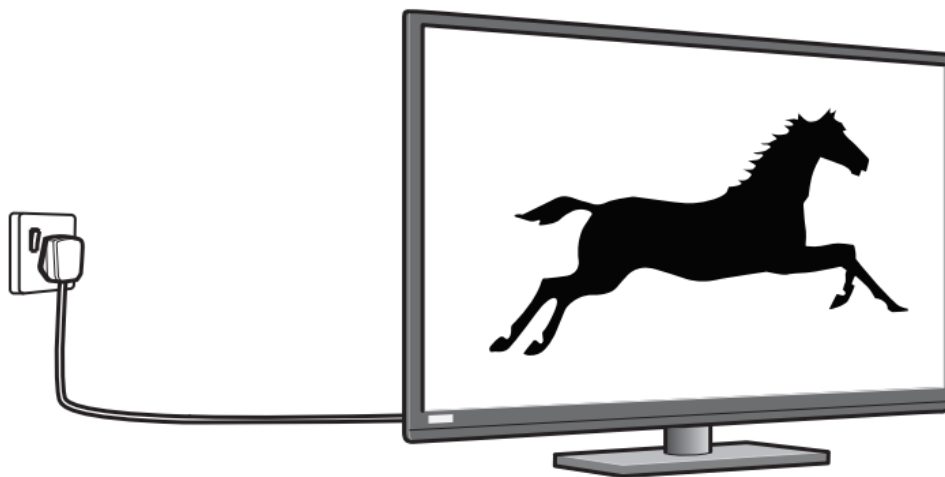
1. This question is about materials. Draw a straight line to match each material to its correct description.

- | | |
|-------------|---|
| 1) Alloy | a pure substance containing the same type of atom |
| 2) compound | a pure substance containing different types of atom bonded together |
| 3) element | a mixture containing two different types of metal atoms |
| | an impure substance containing the same type of atom |

[3]

2. Energy is transferred from one form into another.

The diagram shows a television



. Complete the energy transfer for the television.

..... energy
 energy energy

..... energy

[1]

Q3. A research chemist investigates some compounds.

She wants to dissolve them in water and test the pH of the solution.



She uses sulfuric acid which has the above hazard symbol what is it

[1]