GRADE 6

SAMPLE QUESTION PAPER

EXAM DETAILS

TOTAL MARKS **100**	**QUESTIONS** **50**	**DURATION** **60 mins**	**EXAM MODE** **ONLINE**

Skills that will be tested

PICTORIAL REASONING	**VERBAL REASONING**	**GENERAL AWARENESS**
LOGICAL REASONING	**CRITICAL REASONING**	**PROBLEM SOLVING**

Important Instructions:

- ➲ All questions are multiple-choice format.
- ➲ Negative marking will apply for every wrong answer.
- ➲ The exam will be conducted online and proctored by an invigilator.

Section A: Verbal Reasoning

1. **Roots are to plants as lungs are to _____.**
   a. Humans
   b. Cars
   c. Mountains
   d. Computers

2. **Pandemic is to virus as drought is to _____.**
   a. Rain
   b. Water shortage
   c. Snow
   d. Flood

3. **The first railway engines and farm tractors were all powered by S _ _ _ M.**
   Which 3-letter word best fills the blank for the sentence to make sense?
   a. OAK
   b. OIL
   c. TEA
   d. TAR

4. **Photosynthesis is to plants as _____ is to humans.**
   a. Digestion
   b. Respiration
   c. Excretion
   d. Circulation

5. **Headline is to news as _____ is to a story.**
   a. Title
   b. Paragraph
   c. Summary
   d. Conclusion

6. **Mozart is to musician as Einstein is to _____.**
   a. Wisdom
   b. Scientist
   c. Architect
   d. Photographer

7. **"Scientists are urging governments to implement stricter regulations on plastic use after recent studies revealed a dramatic increase in ocean pollution. This pervasive problem threatens marine life and may impact human health."**
   What does the word "pervasive" most likely mean as used in the passage?
   a. Confusing
   b. Spreading widely
   c. Unimportant
   d. Temporary

8. "Scientists observed a significant decline in bee populations due to pesticide exposure, raising concerns about pollination and food security." What does the word "decline" mean in this context?
   a. Increase
   b. Decrease
   c. Stay the same
   d. Spread

9. "A warm cup of water has high-speed molecules." Paraphrase this statement. ('Paraphrasing' means putting someone else's ideas into your own words.)
   a. The molecules in the warm cup of water have a lot of kinetic energy
   b. Fast molecules are in hot water.
   c. A cold cup of water has low energy
   d. Warm water particles move slowly when heated

10. 'The old house stood on a hill overlooking the town.' Identify the best paraphrase.
    a. A house on a hill was near the town.
    b. The old house was located at the top of a hill and had a view of the town.
    c. The house on the hill was small and looked down on the town.
    d. The old house was on a hill, and it was far from the town.

11. "The student was diligent in his studies." Identify the incorrect paraphrase.
    a. The student was lazy in his studies.
    b. The student was very careful about his studies.
    c. The student was hardworking.
    d. The student was committed to learning

For questions 12 and 13, read the given extracts and identify their main idea:

12. 'With more students using the internet for schoolwork and communication, online safety has become an important topic. Experts recommend using strong passwords, avoiding the sharing of personal information, and only visiting websites that are trusted. Taking these steps can help prevent problems like identity theft and cyberbullying.'
    What is the main idea of this passage?
    a. Students use the internet only for schoolwork.
    b. The internet is dangerous and should be avoided.
    c. Following safety tips can help students prevent online problems.
    d. All websites are trustworthy.

13. "Every year, millions of electronic devices such as phones, computers, and televisions are thrown away. Many of these end up in landfills, causing harmful chemicals to seep into the soil and water. Some cities have started special recycling programs to collect and safely process electronic waste, reducing pollution and conserving valuable materials." What is the main idea of this passage?
    a. People like to buy new electronic devices and discard the old ones into landfills.
    b. Electronic waste can harm the environment, but recycling programs help reduce this problem.
    c. Only computers and televisions can be recycled, so we must refrain from buying new phones.
    d. Cities should ban electronic devices.

Section B: Logical and Pictorial Reasoning

For questions 14 to 18, determine the pattern of the numbers or letters in each series and choose which number comes next.

14. Complete the sequence of numbers: 2, 4, 6, __, 10, 12?
    a. 7
    b. 8
    c. 9
    d. 13

15. Find the next number in the series: 4, 16, 5, 25, 6, _____
    a. 34
    b. 35
    c. 32
    d. 36

16. A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
    The alphabet is given to help you. The following series is made up of pairs of letters:
    TI QL NO KR HU ____
    Each pair follows a consistent pattern. Find the pair that comes next.
    a. EY
    b. WE
    c. EZ
    d. EX

17. Look at this series: 7, 14, 21, 28, _____ What number should come next?
    a. 34
    b. 33
    c. 36
    d. 35

18. What number corresponds to Thursday if:
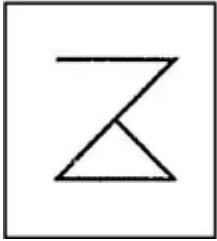   Monday – 1
    Tuesday – 4
    Wednesday – 9
    Thursday – ___
    a. 12
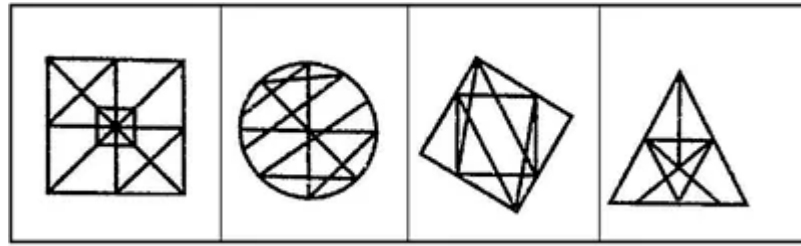   b. 15
    c. 16
    d. 20

A figure is embedded in another figure if it fits completely inside the other figure.

For questions 19 to 21, a question figure and a set of four answer figures (A), (B), (C) and (D) are given. Find out that answer figure in which the question figure is embedded.
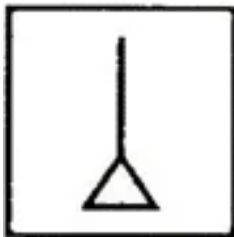
19. Question figure   **Answer Figures**

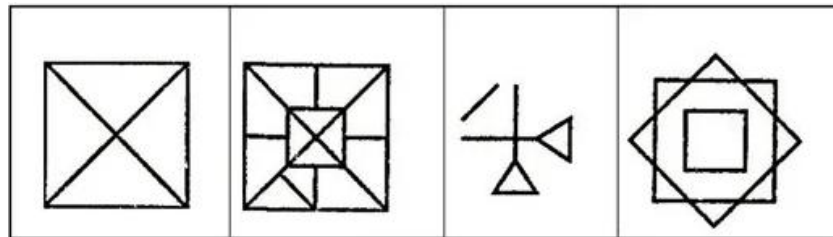| A | B | C | D |

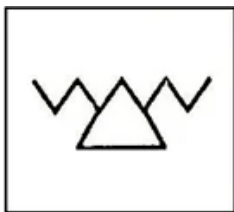a. A   b. B   c. C   d. D

20. Question figure   **Answer Figures**

| A | B | C | D |

a. A   b. B   c. C   d. D

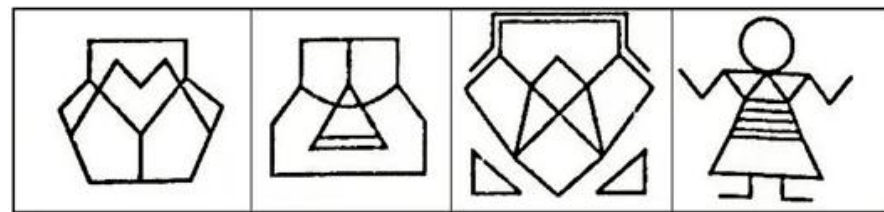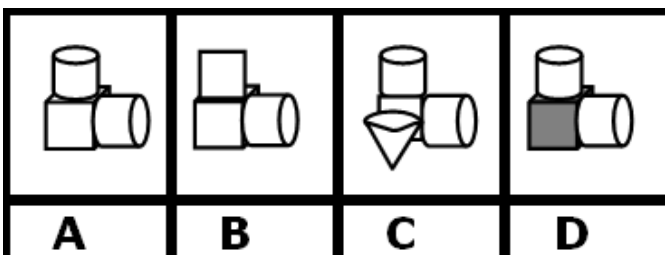**21. Question figure**   **Answer Figures**

| A | B | C | D |

a. A   b. B   c. C   d. D
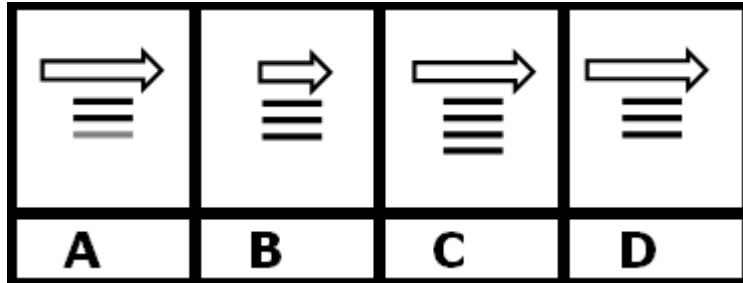
From questions 22-24, choose the missing figure.

22.

| A | B | C | D |

a. A   b. B   c. C   d. D

23.

A	B	C	D

a. A   b. B   c. C   d. D

24.
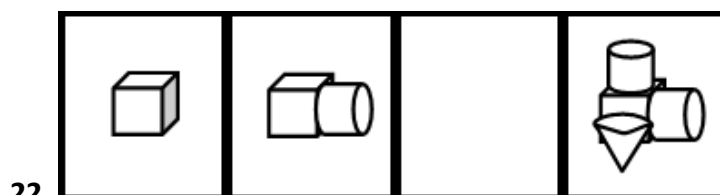
A	B	C	D
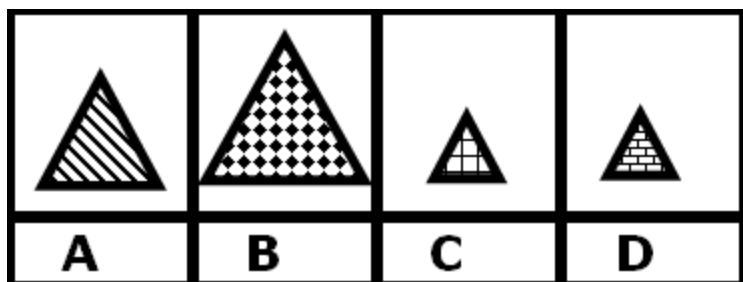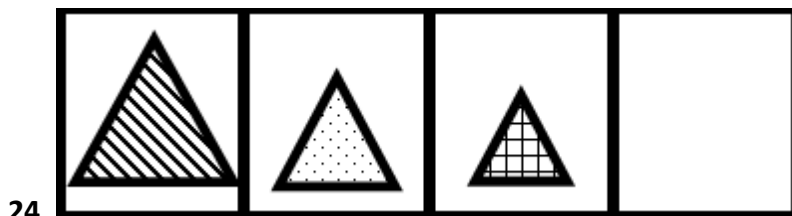
a. A   b. B   c. C   d. D

For questions 25 to 27, choose the correct answer.

A green, black, and a red shoe must be arranged in a shoe rack one after the other. The black shoe must be placed after the red shoe.

25. If the green shoe is placed in the third position, then the black shoe must be placed in which position?
     a. 1
     b. 2

26. If the green shoe is placed in the second position, then the black shoe must be placed in which position?
     a. 1
     b. 3

27. If the green shoe is placed in the first position, then the black shoe must be placed in which position?
     a. 2
     b. 3

Section C: Critical Thinking and Problem Solving

For questions 28 to 35, find the statement that must be true according to the given information.

28. **During her science fair experiment, Priya tested how the acidity of soil affects tomato plant growth. She grew three sets of tomato plants: one in acidic soil, one in neutral soil, and one in alkaline soil. She kept the amount of water, sunlight, and fertilizer the same for all sets. After four weeks, Priya measured the height of each plant and noted which plants produced flowers. Which statement is true based on the experiment described?**
    a. Priya prefers growing tomatoes to other vegetables.
    b. Priya changed the amount of water for each set of plants.
    c. Priya measured the plant heights after four weeks.
    d. Priya's experiment was unsuccessful.

29. **Every Friday, Leo helps his parents at their bakery. He decorates cakes, arranges pastries in the display, and sometimes takes customer orders. Last month, Leo created a poster advertising a new line of cupcakes, which attracted many customers. Which of the following is an example of Leo's responsibilities at the bakery?**
    a. Leo's family bakery started selling cupcakes last month.
    b. Leo has experience working with both cakes and pastries.
    c. Leo's parents work with him every day of the week.
    d. Leo prefers advertising to baking.

30. **For their history project, Alisha and her classmates researched local landmarks. They interviewed community elders, visited historic sites, and took photographs for their report. Alisha created a timeline showing the most significant changes to the landmarks over the past fifty years. Which detail is part of Alisha's history project?**
    a. Alisha and her classmates visited landmarks in another country.
    b. Alisha included photographs in her project report.
    c. Alisha prefers history projects to science projects.
    d. Alisha's timeline focuses only on recent changes.

For questions 31 to 35, statements and conclusions are given based on the statements. Choose the correct option to identify the category in which the conclusion falls, based on the statement given.

31. **Statement: All students who participate in the science fair submit a project report.**
    Nina submitted a project report.
    Conclusion: Nina participated in the science fair.
    a. Definitely true
    b. Possibly true
    c. Cannot say
    d. Definitely false

32. **Statement: If a student is selected for the debate team, they must have passed the speech audition.**
    Conclusion: Leo did not pass the speech audition, so he was not selected for the debate team.
    a. Definitely true
    b. Possibly true
    c. Cannot say
    d. Definitely false

33. **Statement: Every student who wins a gold medal at the sports meet trains every morning.**
    Aisha trains every morning.
    Conclusion: Aisha will win a gold medal at the sports meet.
    a. Definitely true
    b. Possibly true
    c. Cannot say
    d. Definitely false

34. **Statement: Only students who submit their assignments on time are invited to the annual awards ceremony.**
    Conclusion: Ron was invited to the annual awards ceremony, so he submitted his assignments on time.
    a. Definitely true
    b. Possibly true
    c. Cannot say
    d. Definitely false

35. **Statement: During her biology project, Meera tested the effect of different liquids on seed germination. She soaked one set of seeds in water, another in saltwater, and a third in sugar water. She observed that seeds soaked in water sprouted healthy roots, seeds in sugar water had weak sprouts, and seeds in saltwater did not sprout at all.**
    Conclusion: Seeds soaked in saltwater will not germinate.
    a. Definitely true
    b. Possibly true
    c. Cannot say
    d. Definitely false

For questions 36 to 40, determine the first step or the best way to solve a problem!

36. **Julia bought 4 notebooks at $3.75 each, 2 packs of pens at $5.40 each, and a calculator for $24.99. What is the first step to find out how much she spent in total?**
    a. Add the price of one notebook, one pack of pens, and the calculator.
    b. Multiply the number of notebooks by $3.75, multiply the number of pen packs by $5.40, then add these totals with the calculator price.
    c. Add the price of all items together and then multiply by the total quantity of items.
    d. Multiply the calculator price by the number of notebooks and pens.

37. **A car rental company charges $45 per day plus $0.20 per mile driven. If Maya rents a car for 5 days and drives 150 miles, what is the best way to start solving the total charge?**
    a. Multiply 5 by $45, multiply 150 by $0.20, and then add the two amounts.
    b. Add $45 and $0.20, then multiply the sum by 5 and 150.
    c. Multiply 5 by 150, then multiply that by $0.20.
    d. Add $45 and multiply by 150 miles.

38. **During a sale, a store offers 20% off on all items. A jacket's original price is $85, and a pair of shoes costs $60. What should be done first to find the total amount Olivia will pay if she buys both?**
    a. Calculate 20% of $85 and $60 separately, subtract these amounts from the original prices, and then add the discounted prices.
    b. Add $85 and $60, then subtract $20 from the total.
    c. Add 20% of $85 to the price of the shoes.
    d. Find 20% of the combined price and add it to the total.

39. **A classroom has 24 desks arranged in rows. Each row has the same number of desks. If there are 6 rows, how do you find the number of desks in each row?**
    a. Multiply 24 by 6
    b. Divide 24 by 6
    c. Add 24 and 6
    d. Subtract 6 from 24

40. **Sam baked 150 cookies for a fundraiser. He sold 60 in the morning, gave away 20 to his neighbours, and baked another batch of 70 cookies in the afternoon. What should be the first step to calculate how many cookies Sam has now?**
    a. Subtract 60 and 20 from 150, then add 70.
    b. Add 60, 20, and 150, then subtract 70.
    c. Add 150 and 70, then subtract 60.
    d. Multiply 150 by 60, then subtract 20.

Section D: General Awareness

Choose the correct option for each question from 41 to 50.

41. **Scenario: A recent news article reports on a new law passed in your town requiring all pet owners to microchip their pets.**
    Which of the following statements best represents a possible reason behind the implementation of this new law?
    a. The town council believes pet microchipping is a good source of revenue.
    b. The law aims to reduce the number of lost pets and reunite them with their owners.
    c. The town council wants to encourage people to buy fewer pets.
    d. Pet owners have been requesting this law for a long time.

42. **Scenario: You're reading two different online articles about the effects of climate change. Article A uses strong emotional language and cites only personal experiences. Article B presents scientific data, quotes experts, and includes links to research studies. Which article is likely a more reliable source of information, and why?**
    a. Article A, because personal experiences are always the most accurate.
    b. Article A, because emotional language helps people understand the issue better.
    c. Article B, because it relies on factual evidence and expert opinions.
    d. Article B, because it uses more complex vocabulary.

43. **Many countries are facing a growing problem of plastic pollution in their oceans. If this issue continues to worsen, what is a likely consequence for marine life and the environment?**
    a. Marine animals will adapt to eating plastic and become healthier.
    b. The oceans will become cleaner as the plastic breaks down naturally.
    c. Marine ecosystems could suffer significant damage, impacting the food chain and overall biodiversity.
    d. Scientists will invent a special type of plastic that is beneficial for the environment.

44. **A new factory is planned to be built near your school. While it will bring jobs to the community, some people are concerned about the potential increase in air pollution. Which of the following actions best demonstrates a responsible approach to addressing this situation?**
    a. Ignoring the concerns and focusing only on the job creation.
    b. Protesting the factory without considering the economic benefits.
    c. Researching the factory's environmental impact, engaging in community discussions, and advocating for solutions that benefit both the economy and the environment.
    d. Assuming the government will handle the situation without any input from the community.

45. **You see an advertisement for a new snack that claims to be "the healthiest snack on the planet." The ad features a celebrity enjoying the snack enthusiastically. What is the most important thing to consider when evaluating this advertisement's claim?**
    a. Whether you like the celebrity in the advertisement.
    b. The colours and images used in the advertisement.
    c. The potential for bias and the need to seek out independent scientific information.
    d. How popular the snack is with other people.

46. **Your friend wants to save money to buy a new bicycle. They have a small allowance each week. What is the first and most important step they should take to start saving effectively?**
    a. Make a plan based on how much money they earn and how much they need for the bicycle.
    b. Spend all their money on snacks and then try to borrow from others.
    c. Make a list of everything they want to buy, no matter the cost.
    d. Ask their parents to buy the bicycle for them.

47. **In ancient history, a Pharaoh was a ruler in which country?**
    a. USA
    b. Japan
    c. South Africa
    d. Egypt

48. **Scenario: You notice that many people in your neighbourhood are having trouble finding someone to walk their dogs during the day.**
    If you wanted to start a small business to help with this problem, what would be your most important first step as a young entrepreneur?
    a. Make a catchy business name and logo.
    b. Tell your parents or guardians about your idea to get their permission and support.
    c. Buy a fancy dog leash and treats to be ready for your first clients.
    d. Research how much other dog walkers in the area charge and what services they offer.

49. **Scenario: The United Nations (UN) is an international organization that tries to solve global problems. Imagine there's a serious food shortage in a developing country due to drought.**
    How might the UN help address this food shortage, and why is global cooperation important in such situations?
    a. The UN would send money directly to each person affected. Global cooperation isn't very important in these situations.
    b. The UN might coordinate aid from different countries, like sending food, water, and medical supplies, because no single country can solve a global crisis alone.
    c. The UN would ask the affected country to solve the problem by itself, as other countries have their own issues to deal with.
    d. The UN would only provide advice and let the country's government handle everything.

50. Scenario: You read a social media post that claims "Brand X" potato chips are the best chips ever, and everyone should buy them. The post is from a celebrity who is holding a bag of Brand X chips.
What is the most important thing to consider when evaluating this social media post?

a. The celebrity's popularity and how many followers they have.
b. The colours and design of the chip bag in the photo.
c. Whether Brand X might pay the celebrity to promote their chips
d. Research and determine the crunchiness of the chips.

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