GRADE

8

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. **In the following pairs, all but one share a common relationship. Identify the odd pair.**
   a. Tree : Stem
   b. Face : Eye
   c. Chair : Sofa
   d. Plant : Flower

2. **What comes in place of the question mark in the following letter series?**
   NATURAL, NATURA, ATURA, _____
   a. ATUR
   b. TURA
   c. RUTA
   d. ARUT

3. **Which is the correct sequence of the water cycle?**

1. Evaporation	2. Rain	3. Sea	4. Clouds

   a. 1, 2, 3, 4
   b. 4, 1, 2, 3
   c. 3, 1, 4, 2
   d. 2, 4, 1, 3

4. **Which one does not belong to the list of these words: 'second, minutes, hours'?**
   a. Lightyears
   b. Decades
   c. Millenia
   d. Weeks

5. **Pick the three-letter word that would complete the word in capitals so it makes better sense.**
   When a group of zookeepers tried to move the elephants to a new enclosure without a proper plan, it caused several COMPLIIONS.
   a. PET
   b. CAT
   c. DOG
   d. OWL

6. **Choose two words from the list below that have the closest meaning:**
   find, reveal, explore, discover, hide
   a. Discover, hide
   b. Show, hide
   c. Explore, discover
   d. Find, discover

7. **Find the pair of letters that will complete the sentence most sensibly.**
   In the letters of the alphabet, "NI is to EV as SE is to ?"
   a. JR
   b. JU
   c. DJ
   d. RT

8. **Select the pair that shows a similar relationship that is shown by the pair ABC : CDE.**
   a. LNM : NOO
   b. PQR : QRS
   c. PDF : RFH
   d. XYZ : ZAX

For questions 9 to 12, read the extracts and answer the questions questions that follow.

9. **Your brain enjoys reading because it helps you in special ways you can't get otherwise. Reading lets you pause and think clearly. When you read, you usually have more time to understand things. But when you watch a movie or listen to a tape, you don't get to pause and think as much. Reading also needs a lot of focus, which makes your brain work harder and smarter.**
   Choose the best paraphrase of the passage:
   a. Reading is fun because it keeps your mind busy, but watching movies or listening to tapes is better since you don't have to think much.
   b. When you read, you get a chance to stop and think carefully, which helps your brain work better. Watching movies or listening to tapes doesn't give you this pause.
   c. Watching movies and listening to tapes require more concentration than reading, so they help your brain more.
   d. Reading is only good for entertainment and doesn't make your brain think as much as listening to stories does.

10. **The French Revolution began in 1789 and ended in the late 1790s with the ascent of Napoleon Bonaparte. During this period, French citizens razed and redesigned their country's political landscape, uprooting centuries-old institutions such as the absolute monarchy and the feudal system. Like the American Revolution before it, the French Revolution was influenced by Enlightenment ideals, particularly the concepts of popular sovereignty and inalienable rights.**
    From this passage, it can be concluded that:
    a. In the French Revolution, their monarch was killed.
    b. Napoleon initiated the French Revolution.
    c. The American Revolution happened before the French Revolution.
    d. The French Revolution began much before the Russian Revolution.

11. **Generation Xers are those people born roughly between 1965 and 1981. As employees, Generation Xers tend to be more challenged when they can carry out tasks independently. This makes Generation Xers the most entrepreneurial generation in history.**
    This paragraph best supports the statement that Generation Xers:
    a. work harder than people from other generations.
    b. tend to be self-directed workers.
    c. tend to work in jobs that require risk-taking behaviour.
    d. like to challenge their bosses' work attitudes.

12. **In the past, most people didn't go to ice cream shops to buy low-fat ice cream, because it wasn't very popular. Today, things are different. Many people care more about their health, and there are many tasty low-fat food options in stores now. Because of this, low-fat ice cream has become very popular with customers and helps ice cream shop owners make more money.**
    This paragraph best supports the statement that:
    a. Low-fat ice cream produces more revenue than other low-fat foods
    b. Ice cream store owners would be better off carrying only low-fat ice cream.
    c. Consumers are fickle, and it is impossible to please them.
    d. Ice cream store owners no longer think that low-fat ice cream is an unpopular item.

Section B: Logical and Pictorial Reasoning

Answer question 13 based on the information below.

Zinnia has a small container garden on her balcony. Each spring, she only has room to plant three vegetables. Because five vegetables are her favourites, she has worked out a schedule to plant each at least once every two years. The vegetables are: beans, cabbage, carrots, peppers, and tomatoes.

- Tomatoes are her favourites and she plants them every year.
- Each year, she plants only one vegetable that begins with the letter "C."
- She never plants carrots and peppers in the same year.
- She will plant cabbage in the second year.

13. In what order does she plant the vegetables in the next two years?
   a. first year: tomatoes, carrots, cabbage   second year: tomatoes, peppers, beans
   b. first year: tomatoes, peppers, beans   second year: cabbage, carrots, tomatoes
   c. first year: tomatoes, carrots, peppers   second year: tomatoes, cabbage, beans
   d. first year: tomatoes, carrots, beans   second year: tomatoes, cabbage, peppers

For questions 14 to 18, read the questions and choose the correct option.

14. Five students — Liam, Sophia, Ethan, Aisha, and Noah ran a 200 m race.
   1. Sophia finished ahead of Ethan.
   2. Noah finished behind Liam but ahead of Ethan.
   3. Aisha finished immediately after Sophia.
   4. Liam did not come first.
   Who came first?
   a. Liam
   b. Sophia
   c. Aisha
   d. Noah

15. Amit is the father of Neha. Rohan, Amit's brother, has a daughter, Anya. Meera is the mother of Anya. How is Neha related to Anya?
   a. Sister
   b. Cousin
   c. Aunt
   d. Niece

16. What is the answer to the sum written as a letter?
   M = 4, A = 8, T = 3, E = 6
   E x M ÷ A + T = _____
   a. M
   b. A
   c. T
   d. E

17. Find the missing number, if same rule is followed in all the three figures.

(25 : 5) (36 : 6) (? : 7)

   a. 49
   b. 37
   c. 50
   d. 94

18. If FORGE is written as FPTJI, how will CULPRIT be written?
   a. CSJNPGR
   b. CVMQSTU
   c. CVNSVNZ
   d. CXOSULW

19. Which is the odd one?
   a.   4;16
   b. 3;12
   c. 7;28
   d. 5;15

20. Find the missing number in the given series.

6	14	24	36		66

   a. 49
   b. 52
   c. 50
   d. 58

21. If 'green' is called 'yellow', 'yellow' is called 'orange' 'orange' is called 'red' and 'red' is called 'blue', then what colour will grass be called?
   a. Orange
   b. Blue
   c. Yellow
   d. Red

22. How many rectangles are there in the figure given below?
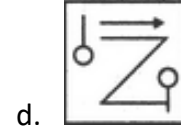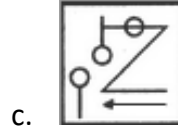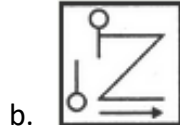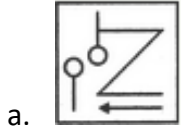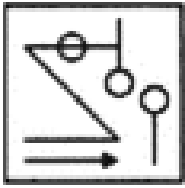   a. 7
   b. 8
   c. 9
   d. 10
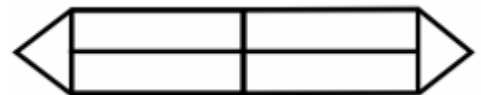
23. Count the number of small cubes in the following figure.
   a. 36
   b. 32
   c. 30
   d. 27

24. Choose the correct mirror image of the given figure.

a.   b.   c.   d.

25. What is the mirror image of the word BANK?
   a. KNAB
   b. BNKA
   c. KMAB
   d. KANB

A figure is said to be embedded in another figure when the second figure completely contains the first figure.

For questions 25 to 27, a question figure and a set of four answer figures (A), (B), (C) and (D) are given. Find out the answer figure in which the question figure is embedded.
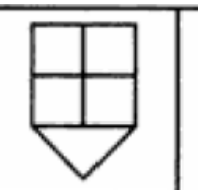
26. Question figure   Answer Figures

| A | B | C | D |

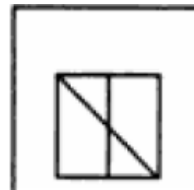   a. A   b. B   c. C   d. D

27. Question Figure   Answer Figures:

| A | B | C | D |

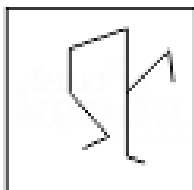   a. A   b. B   c. C   d. D
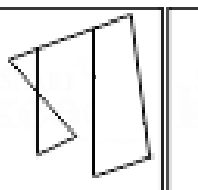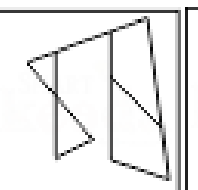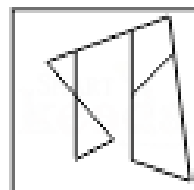
28. Question Figure   Answer Figure:

| A | B | C | D |

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

Section C: Critical Thinking and Problem Solving

For questions 29 to 32, read the statements and decide whether the conclusion logically follows from the information given.

29. **Statement: All students in Greenfield School must wear a blue uniform. Ravi is a student at Greenfield School.**
    Conclusion: Ravi wears a blue uniform.
    a. Yes, the conclusion follows.
    b. No, the conclusion does not follow.

30. **Statement: No reptiles have fur. A snake is a reptile.**
    Conclusion: A snake has fur.
    a. Yes, follows.
    b. No, does not follow.

31. **Statement: All members of the debate club enjoy public speaking. Maria enjoys public speaking.**
    Conclusion: Maria is a member of the debate club.
    a. Yes, follows.
    b. No, does not follow.

32. **Find the solution for the following statements:**
    - **The people born between 1950 and 1980 like old movies.**
    - **Johnson was born in the year 2005.**
    a. Johnson does not like old movies.
    b. Johnson prefers to watch films released between 1950 and 1980.
    c. Johnson was born between 1950 and 1980.

From the given statements for 33 to 35, which conclusion(s) is/are correct?

33. **Statement: All multiples of 3 are numbers divisible by 3. Some numbers divisible by 3 are also even numbers. Which conclusion must be true?**
    a. Some multiples of 3 are even.
    b. All even numbers are divisible by 3.
    c. All multiples of 3 are even.
    d. No multiple of 3 is even.

34. **Statement: If a number is a multiple of 10, then it ends with 0.**
    Fact: The number 75 does not end in 0.
    What can we conclude about 75?
    a. It is a multiple of 10.
    b. It is not a multiple of 10.
    c. It ends in 5.
    d. None of these.

35. Statements:
   a. **All prime numbers greater than 2 are odd.**
   b. **No even number greater than 2 is prime.**
   Conclusions:
   I. **19 is a prime number greater than 2, so it is odd.**
   II. **28 is an even number greater than 2, so it is not prime.**
   a. Only I follows
   b. Only II follows
   c. Both I and II follow
   d. Neither follows

For questions 36 to 39, read the given scenarios and choose the best possible solution.

36. The school's basketball team has been losing most of its matches this season. The coach gathers the team to discuss ways to improve. Some players say the team needs more practice hours. Others think the problem is poor communication during games. A few players believe that the team needs a new game strategy, but the coach is resistant to changing the current plan because it has worked well before. The tension among team members is rising, and morale is low.
   As a team member, what is the best way to help the team improve and boost morale?
   a. Agree with the coach to keep the current strategy, but encourage more practice sessions to build skills.
   b. Suggest holding a team meeting where everyone can openly share their concerns and ideas without blaming anyone.
   c. Talk privately with the players who want a new strategy and start practicing it secretly without telling the coach.
   d. Focus on your performance and avoid getting involved in team disagreements to avoid conflict.

37. Your group is working on a science project required for a big part of your grade. Halfway through, you realize some members haven't completed their parts, and the project is falling behind schedule. The deadline is only two weeks away. One member suggests cutting parts of the project to finish faster, but others disagree, wanting to keep everything. The group is split and arguing, and progress is stalled.
   What should you do to help the group get back on track effectively?
   a. Agree to remove the difficult parts to meet the deadline.
   b. Propose dividing the remaining work based on each member's strengths and set mini-deadlines for each section.
   c. Talk individually to the members who are behind and ask if they need help or support to finish their work.
   d. Inform the teacher about the group's problems and ask for an extension or extra help.

38. A group of classmates plans a weekend picnic. Among them, one friend is lactose intolerant, another has a severe nut allergy, and a third prefers vegan food. The picnic spots available have different food options and environments:
   a. A food park with many international cuisine stalls, including dairy desserts, nut-based snacks, and vegan options. However, the park lacks clear allergen labelling.
   b. A nature park with a vendor specializing in 100% vegan food and clear allergen information but no shelter from sudden rain.
   c. A lakeside picnic area with multiple fast-food chains offering limited vegan options but good shelter and entertainment facilities.
   d. A cultural fair with diverse food courts, including dairy and nuts in many dishes, but also small covered seating areas.

39. **Riya is organizing a movie night for a group of six close friends. Three friends prefer comedy movies, but one of them dislikes slapstick humour. Two friends enjoy action movies but are not keen on violence or gore. The remaining friend likes romantic movies but dislikes predictable endings. The group must select one movie to watch together on a single screen at home, and they want everyone to enjoy as much as possible.**
    Which movie choice would best balance the diverse preferences of the group?
    a. A critically acclaimed comedy with witty humour but some light slapstick scenes.
    b. A recent action movie with thrilling scenes but minimal graphic violence.
    c. A romance movie with an unconventional plot and an unpredictable ending.
    d. A comedy-action hybrid movie that mixes light humour with some action sequences.

Section D: General Knowledge and Science

Choose the correct option for questions 40 to 50.

40. **What is the best way to prevent fake news from spreading?**
    a. File a law suit against the writers
    b. Learn how to identify it and avoid reposting it
    c. Read it all and write your own stories stating the facts straight
    d. None of the above

41. **What does G stand for in 3G, 4G and 5G?**
    a. generate
    b. generation
    c. gather
    d. green energy

42. **Imagine there's a new disease spreading across countries. Doctors from different nations are confused about symptoms and cures. Who steps in to help them work together and share data?**
    a. A company that makes medicine
    b. The World Health Organization (WHO)
    c. An organization that manages global banks
    d. An animal protection group

43. **Before 1776, the American colonies had to follow British laws and pay taxes.**
    After years of protest and war...
    a. America gained independence from British rule
    b. The colonies agreed to more British rules
    c. America became part of France
    d. America created a royal king to rule them

44. **Imagine scientists in different countries trying to share research — by fax and slow post!**
    One scientist wanted a better way...
    a. The World Wide Web was created to help scientists share data easily
    b. The Web is the same as the Internet
    c. The Web was created for online shopping only
    d. The Web was invented in the 1970s

45. **Your school wants to install a green energy source on the rooftop. Which one works best where there's a lot of sunlight?**
    a. Wind turbines (need wind)
    b. Solar panels (need sunlight)
    c. Hydro dams (need rivers)
    d. Geothermal plants (need heat from Earth's core)

46. **What is the primary purpose of artificial intelligence (AI) today?**
    a. To replace all human workers
    b. To build only physical robots
    c. To enable machines to perform tasks that typically require human intelligence
    d. To extend human lifespan

47. **Which invention is credited with starting the Industrial Revolution?**
    a. The steam engine
    b. The telephone
    c. The airplane
    d. The printing press

48. **Some powerful countries have nuclear weapons and are part of global agreements to prevent their spread, yet tensions sometimes rise when other nations try to develop nuclear technology.**
    Why are there international efforts, such as treaties, to control the spread of nuclear weapons?
    a. Because unregulated spread increases the risk of destructive wars and global security threats.
    b. Because nuclear weapons are easy to build and harmless if used.
    c. All countries are required to have nuclear weapons for safety.
    d. Treaties are mostly for making new scientific discoveries.

49. **Many countries are investing in artificial intelligence (AI) technologies to improve industries like healthcare, transport, and education. However, there are ongoing debates about allowing AI to make important decisions such as who gets medical treatment first or who qualifies for a loan.**
    What is one major concern about allowing AI systems to make such important decisions on behalf of humans?
    a. AI systems never make mistakes and are always fair.
    b. AI systems have bias in their programming or data.
    c. AI systems can easily replace all teachers and doctors.
    d. No one is interested in using AI for these purposes.

50. **Deforestation is the large-scale removal of trees, often to create farmland or urban areas. While it can help meet immediate human needs, it has many environmental consequences.**
    What is one major environmental impact of deforestation that affects both wildlife and climate?
    a. It reduces animal habitats and increases carbon dioxide levels in the atmosphere.
    b. It instantly increases rainfall and cools the global temperature.
    c. It helps increase oxygen production and reduces soil erosion.
    d. It has no significant effect on the environment or living creatures.