

RASHTRIYA INDIAN MILITARY COLLEGE
(RIMC), DEHRADUN

MODEL QUESTION PAPER

2026 EDITION

Prepared by: The Volume Education Academy

Sections: Mathematics | English | General Knowledge | Intelligence Test

Total Marks: 300 | Duration: 2 Hours 30 Minutes

Instructions: Attempt ALL questions. No negative marking in MCQs.



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Duration: 2 Hrs 30 Min | Total Marks: 300 | All Sections Compulsory

Exam	RIMC Entrance Examination — Model Paper 2026	Duration	2 Hrs 30 Min
Academy	The Volume Education Academy, Dehradun	Total Marks	300
Sections	Mathematics English GK Intelligence Test	Medium	English

Instructions:

- This paper has FOUR sections. Attempt ALL questions.
- Part A (MCQ): 2 marks each. No negative marking.
- Part B (Short Answer): Marks indicated against each question.
- Use blue/black pen only. Write Roll No. on every answer sheet.

SECTION 1: MATHEMATICS [80 Marks]

Part A — Multiple Choice Questions (2 Marks Each)

Q1. The LCM of 12, 18 and 24 is:

- (A) 36 (B) 48
(C) 72 (D) 96

Q2. If $3x - 7 = 11$, then $x =$

- (A) 4 (B) 5
(C) 6 (D) 7

Q3. A train travels 360 km in 4 hours. Its speed in m/s is:

- (A) 90 (B) 25
(C) 100 (D) 30

Q4. Area of a circle with radius 7 cm (use $\pi = 22/7$):

- (A) 44 cm^2 (B) 154 cm^2
(C) 132 cm^2 (D) 176 cm^2

Q5. Ratio of boys to girls is 3:2 and there are 30 boys. How many girls?

- (A) 15 (B) 18
(C) 20 (D) 25

Q6. Simple interest on Rs. 5000 at 8% p.a. for 3 years:

- (A) Rs. 1000 (B) Rs. 1200
(C) Rs. 1500 (D) Rs. 2000

Q7. What is 15% of 240?

- (A) 30 (B) 36
(C) 40 (D) 45

Q8. Which of the following is a prime number?

- (A) 51 (B) 57
(C) 63 (D) 67



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Q9. Square root of 1764:

- | | |
|--------|--------|
| (A) 42 | (B) 44 |
| (C) 46 | (D) 48 |

Q10. Shopkeeper buys for Rs. 400, sells for Rs. 500. Profit %:

- | | |
|---------|---------|
| (A) 20% | (B) 25% |
| (C) 30% | (D) 15% |

Q11. Value of $2^5 \times 2^3$:

- | | |
|---------|---------|
| (A) 256 | (B) 128 |
| (C) 512 | (D) 64 |

Q12. If $a:b = 2:3$ and $b:c = 4:5$, then $a:c =$

- | | |
|----------|---------|
| (A) 8:15 | (B) 2:5 |
| (C) 6:10 | (D) 4:9 |

Q13. Volume of a cube with side 5 cm:

- | | |
|------------------------|------------------------|
| (A) 25 cm^3 | (B) 75 cm^3 |
| (C) 125 cm^3 | (D) 150 cm^3 |

Q14. Each interior angle of an equilateral triangle:

- | | |
|------------|------------|
| (A) 90 deg | (B) 45 deg |
| (C) 60 deg | (D) 72 deg |

Q15. Average of 5, 10, 15, 20, 25:

- | | |
|--------|--------|
| (A) 12 | (B) 13 |
| (C) 15 | (D) 16 |

Q16. HCF of 36 and 48:

- | | |
|--------|--------|
| (A) 6 | (B) 12 |
| (C) 18 | (D) 24 |

Q17. 5 men do work in 8 days. How many days for 10 men?

- | | |
|-------|-------|
| (A) 2 | (B) 4 |
| (C) 6 | (D) 8 |

Q18. Perimeter of rectangle: length 12 cm, breadth 8 cm:

- | | |
|-----------|-----------|
| (A) 20 cm | (B) 40 cm |
| (C) 96 cm | (D) 80 cm |

Q19. A man walks at 5 km/h. Time (min) to walk 2 km:

- | | |
|--------|--------|
| (A) 20 | (B) 24 |
| (C) 30 | (D) 40 |

Q20. Value of $(0.1)^2 + (0.2)^2 + (0.3)^2$:

- | | |
|----------|----------|
| (A) 0.14 | (B) 0.36 |
| (C) 0.06 | (D) 0.16 |



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Part B — Short Answer Questions (Marks as indicated)

QM1. [4 Marks] Find x : $2x + 5 = 3x - 7$

QM2. [4 Marks] Cylinder: radius 7 cm, height 10 cm. Find volume. ($\pi = 22/7$)

QM3. [5 Marks] Compound interest on Rs. 8000 at 10% p.a. for 2 years.

QM4. [4 Marks] Angles of a triangle are in ratio 2:3:4. Find each angle.

QM5. [5 Marks] Boat: 15 km upstream in 3 hrs, 15 km downstream in 1.5 hrs. Speed in still water?



SECTION 2: ENGLISH [80 Marks]

Part A — Multiple Choice Questions (2 Marks Each)

Q21. Synonym of VALIANT:

- | | |
|--------------|-----------|
| (A) Cowardly | (B) Brave |
| (C) Weak | (D) Lazy |

Q22. Antonym of EXPAND:

- | | |
|--------------|--------------|
| (A) Grow | (B) Increase |
| (C) Contract | (D) Develop |

Q23. Fill blank: The soldier _____ the enemy bravely.

- | | |
|-----------------|---------------|
| (A) confronted | (B) confronts |
| (C) confronting | (D) confront |

Q24. Part of speech — 'He runs quickly.' (underlined: quickly)

- | | |
|---------------|----------|
| (A) Adjective | (B) Noun |
| (C) Adverb | (D) Verb |

Q25. Correct spelling:

- | | |
|----------------|-----------------|
| (A) Accomodate | (B) Accommodate |
| (C) Acommodate | (D) Acomodate |

Q26. Plural of 'child':

- | | |
|--------------|---------------|
| (A) Childs | (B) Childes |
| (C) Children | (D) Childrens |

Q27. Correct punctuation:

- | | |
|--------------|---------------|
| (A) Lets go | (B) Lets' go |
| (C) Let's go | (D) Let's, go |

Q28. 'Place where books are kept':

- | | |
|---------------|-------------|
| (A) Museum | (B) Library |
| (C) Bookstore | (D) Archive |

Q29. Passive voice — 'He writes a letter':

- | | |
|--------------------------------|---------------------------------|
| (A) A letter is written by him | (B) A letter was written by him |
| (C) A letter written by him | (D) A letter is being written |

Q30. 'Study of stars' is called:

- | | |
|---------------|---------------|
| (A) Geology | (B) Biology |
| (C) Astronomy | (D) Astrology |

Q31. Correct article: _____ Himalaya is in India.

- | | |
|---------|----------------|
| (A) A | (B) An |
| (C) The | (D) No article |



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Q32. Figure of speech: 'The wind whispered through the trees.'

- | | |
|---------------------|------------------|
| (A) Simile | (B) Metaphor |
| (C) Personification | (D) Alliteration |

Q33. One-word substitute for 'one who loves his country':

- | | |
|-----------------|-------------|
| (A) Nationalist | (B) Patriot |
| (C) Loyalist | (D) Traitor |

Q34. Grammatically correct sentence:

- | | |
|---------------------------------|-----------------------|
| (A) She don't know | (B) She doesn't knows |
| (C) She doesn't know the answer | (D) She not know |

Q35. Idiom 'Bite the bullet' means:

- | | |
|-----------------------|----------------------------|
| (A) To eat metal | (B) To endure pain bravely |
| (C) To attack someone | (D) To be hungry |

Q36. Synonym of GALLANT:

- | | |
|--------------|---------------------|
| (A) Cowardly | (B) Noble and brave |
| (C) Foolish | (D) Cunning |

Q37. Antonym of VICTORY:

- | | |
|------------|-------------|
| (A) Win | (B) Success |
| (C) Defeat | (D) Triumph |

Q38. Correctly spelt word:

- | | |
|--------------|--------------|
| (A) Calender | (B) Calandar |
| (C) Calendar | (D) Calander |

Q39. 'Comrades in arms' means:

- | | |
|--------------------|---------------------|
| (A) Enemies in war | (B) Fellow soldiers |
| (C) Weapons | (D) Officers only |

Q40. Tense: 'The troops had marched for 20 km.'

- | | |
|------------------|---------------------|
| (A) Simple Past | (B) Past Continuous |
| (C) Past Perfect | (D) Present Perfect |

Part B — Short Answer Questions (Marks as indicated)

QE1. [8 Marks] Write a paragraph (5-6 sentences) on: MY IDEAL SOLDIER



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QE2. [6 Marks] Make sentences using: (a) Courage (b) Discipline (c) Honour

QE3. [4 Marks] Rewrite in reported speech: Ram said, 'I am going to school.'

QE4. [2 Marks] Degrees of comparison — BRAVE: Comparative and Superlative

QE5. [2 Marks] Correct the sentence: 'He have completed his homework yesterday.'



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SECTION 3: GENERAL KNOWLEDGE [70 Marks]

Part A — Multiple Choice Questions (2 Marks Each)

Q41. RIMC is located in:

- (A) New Delhi
- (B) Pune
- (C) Dehradun
- (D) Chennai

Q42. Supreme Commander of Indian Armed Forces:

- (A) Prime Minister
- (B) Defence Minister
- (C) President of India
- (D) Chief of Army Staff

Q43. National animal of India:

- (A) Lion
- (B) Elephant
- (C) Tiger
- (D) Leopard

Q44. River called 'Sorrow of Bengal':

- (A) Ganga
- (B) Brahmaputra
- (C) Damodar
- (D) Hooghly

Q45. India became a Republic on:

- (A) 15 Aug 1947
- (B) 26 Jan 1950
- (C) 2 Oct 1952
- (D) 26 Nov 1949

Q46. First Battle of Panipat was fought in:

- (A) 1526
- (B) 1556
- (C) 1761
- (D) 1600

Q47. Who wrote 'Jana Gana Mana'?

- (A) Bankim Chandra
- (B) Rabindranath Tagore
- (C) Subhash Bose
- (D) Sarojini Naidu

Q48. Highest gallantry award in India:

- (A) Param Vir Chakra
- (B) Mahavir Chakra
- (C) Vir Chakra
- (D) Ashoka Chakra

Q49. Operation Vijay (1999) refers to:

- (A) 1965 War
- (B) Kargil War
- (C) Bangladesh Liberation
- (D) Op Blue Star

Q50. Siachen Glacier is in:

- (A) Himachal Pradesh
- (B) Uttarakhand
- (C) Ladakh
- (D) Arunachal Pradesh

Q51. NDA stands for:

- (A) National Defence Academy
- (B) National Development Authority
- (C) Naval Defence Agency
- (D) National Discipline Academy



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Q52. Mount Everest is in:

(A) India

(B) China

(C) Nepal

(D) Tibet

Q53. Capital of Uttarakhand:

(A) Haridwar

(B) Mussoorie

(C) Dehradun

(D) Nainital

Q54. First recipient of Param Vir Chakra:

(A) Abdul Hamid

(B) Somnath Sharma

(C) Albert Ekka

(D) Vikram Batra

Q55. Indian Navy's motto:

(A) Sham No Varunah

(B) Nabhah Sprisham Diptam

(C) Service Before Self

(D) Jai Hind

Part B — Short Answer Questions (Marks as indicated)

QG1. [6 Marks] Name any THREE recipients of the Param Vir Chakra.

QG2. [4 Marks] What does DRDO stand for? Name ONE product developed by DRDO.

QG3. [6 Marks] Name the three services of Indian Armed Forces and their chiefs' designations.

QG4. [4 Marks] Why is 16 December celebrated as Vijay Diwas?



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QG5. [2 Marks] Name India's first indigenously built aircraft carrier.



SECTION 4: INTELLIGENCE TEST [70 Marks]

Part A — Multiple Choice Questions (2 Marks Each)

Q56. Odd one out: 2, 3, 5, 7, 9, 11

(A) 9

(B) 7

(C) 5

(D) 11

Q57. Complete the series: 3, 6, 12, 24, ____

(A) 36

(B) 48

(C) 42

(D) 60

Q58. A is son of B. B is daughter of C. C is related to A as:

(A) Grandfather

(B) Grandmother

(C) Uncle

(D) Grandparent

Q59. Missing number: 1, 4, 9, 16, ____, 36

(A) 20

(B) 24

(C) 25

(D) 30

Q60. Next term: Z, X, V, T, ____

(A) Q

(B) R

(C) S

(D) P

Q61. Clock shows 3:15. Angle between hour and minute hands:

(A) 0 deg

(B) 7.5 deg

(C) 15 deg

(D) 22.5 deg

Q62. Priya said, 'His mother's only son is my father.' Priya is related to the man as:

(A) Sister

(B) Niece

(C) Daughter

(D) Aunt

Q63. If SOLDIER = TPMEJFS in a code, what is BRAVE?

(A) CSBWF

(B) ASBUD

(C) DSAWF

(D) CQBUF

Q64. How many triangles in a triangle divided into 4 equal smaller triangles?

(A) 4

(B) 5

(C) 6

(D) 8

Q65. If $6 \times 4 = 20$ and $5 \times 3 = 16$, then $8 \times 5 = ?$

(A) 26

(B) 40

(C) 30

(D) 28

Q66. How many letters in MILITARY appear more than once?

(A) 1

(B) 2

(C) 3

(D) 4



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Q67. Rank order lowest to highest: Corporal, Major, Lieutenant, Colonel, Captain

- | | |
|--|--|
| (A) Corporal, Lt, Capt, Major, Colonel | (B) Lt, Corporal, Capt, Major, Colonel |
| (C) Corporal, Capt, Lt, Major, Colonel | (D) Lt, Capt, Corporal, Major, Colonel |

Q68. A is taller than B. C is taller than A. D is shorter than B. Who is tallest?

- | | |
|-------|-------|
| (A) A | (B) B |
| (C) C | (D) D |

Q69. Complete: AZ, BY, CX, ____

- | | |
|--------|--------|
| (A) DV | (B) DW |
| (C) EW | (D) DX |

Q70. Mirror image of the word 'ARMY' before a vertical mirror is:

- | | |
|-----------------------------|-------------------|
| (A) YMRA | (B) Reversed ARMY |
| (C) Laterally inverted ARMY | (D) AMRY |

Part B — Short Answer Questions (Marks as indicated)

QI1. [5 Marks] A tank is $\frac{1}{3}$ full. After adding 80 litres it becomes $\frac{3}{4}$ full. Find the total capacity.

QI2. [4 Marks] Rajan is 15th from left and 10th from right in a row. How many soldiers in the row?

QI3. [4 Marks] A watch gains 5 minutes every hour. Set correctly at 9 AM. What time does it show at 1 PM?

QI4. [4 Marks] Find the missing number: Row 1: 2, 4, 8 Row 2: 3, 9, 27 Row 3: 4, 16, ____



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Q15. [5 Marks] A man faces North. Turns 90 deg clockwise, then 180 deg anticlockwise. Direction now?