

RASHTRIYA INDIAN MILITARY COLLEGE
(RIMC), DEHRADUN

SOLUTIONS BOOKLET

2026 EDITION

Prepared by: The Volume Education Academy

Contents: MCQ Answer Key + Detailed Solutions + Exam Tips

Sections: Mathematics | English | GK | Intelligence Test

Note: This booklet is for teacher/student reference only.



RIMC MODEL PAPER — ANSWER KEY & SOLUTIONS BOOKLET

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PART A — COMPLETE MCQ ANSWER KEY

Q	Section	Ans	Q	Section	Ans
1	Mathematics	(C)	36	English	(B)
2	Mathematics	(C)	37	English	(C)
3	Mathematics	(B)	38	English	(C)
4	Mathematics	(B)	39	English	(B)
5	Mathematics	(C)	40	English	(C)
6	Mathematics	(B)	41	Gen. Knowledge	(C)
7	Mathematics	(B)	42	Gen. Knowledge	(C)
8	Mathematics	(D)	43	Gen. Knowledge	(C)
9	Mathematics	(A)	44	Gen. Knowledge	(C)
10	Mathematics	(B)	45	Gen. Knowledge	(B)
11	Mathematics	(A)	46	Gen. Knowledge	(A)
12	Mathematics	(A)	47	Gen. Knowledge	(B)
13	Mathematics	(C)	48	Gen. Knowledge	(A)
14	Mathematics	(C)	49	Gen. Knowledge	(B)
15	Mathematics	(C)	50	Gen. Knowledge	(C)
16	Mathematics	(B)	51	Gen. Knowledge	(A)
17	Mathematics	(B)	52	Gen. Knowledge	(C)
18	Mathematics	(B)	53	Gen. Knowledge	(C)
19	Mathematics	(B)	54	Gen. Knowledge	(B)
20	Mathematics	(A)	55	Gen. Knowledge	(A)
21	English	(B)	56	Intelligence	(A)
22	English	(C)	57	Intelligence	(B)
23	English	(A)	58	Intelligence	(D)
24	English	(C)	59	Intelligence	(C)
25	English	(B)	60	Intelligence	(B)
26	English	(C)	61	Intelligence	(B)
27	English	(C)	62	Intelligence	(C)
28	English	(B)	63	Intelligence	(A)
29	English	(A)	64	Intelligence	(B)



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30	English	(C)	65	Intelligence	(A)
31	English	(C)	66	Intelligence	(B)
32	English	(C)	67	Intelligence	(A)
33	English	(B)	68	Intelligence	(C)
34	English	(C)	69	Intelligence	(B)
35	English	(B)	70	Intelligence	(C)



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MATHEMATICS — PART B SOLUTIONS

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

Answer: $x = 12$

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

Answer: $V = 22/7 \times 49 \times 10 = 1540$ cm cubed

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

Answer: $A = 8000 \times (1.1)^2 = \text{Rs. } 9680$. CI = Rs. 1680

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

Answer: $9x = 180$ deg, $x = 20$ deg. Angles: 40 deg, 60 deg, 80 deg

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

Answer: Upstream = 5 km/h, Downstream = 10 km/h. Speed = $(5+10)/2 = 7.5$ km/h

ENGLISH — PART B SOLUTIONS

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

Answer: A soldier is the guardian of our nation. An ideal soldier is disciplined, courageous and selfless. He puts duty before personal comfort and is physically fit and mentally strong. He follows orders with dedication and sets an example for others. He is the true pride of India.

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

Answer: (a) A soldier needs great courage to face the enemy on the battlefield. (b) Discipline is the backbone of every military force. (c) It is a great honour to serve and protect one's nation.

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

Answer: Ram said that he was going to school.

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

Answer: Brave -> Braver -> Bravest

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

Answer: He completed his homework yesterday.

GENERAL KNOWLEDGE — PART B SOLUTIONS

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

Answer: Major Somnath Sharma, Lance Naik Albert Ekka, Captain Vikram Batra, 2nd Lt Arun Khetarpal (any 3 valid)



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

Answer: DRDO = Defence Research and Development Organisation. Products: Agni missile / Tejas aircraft / Arjun tank (any one)

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

Answer: Army - Chief of Army Staff; Navy - Chief of Naval Staff; Air Force - Chief of Air Staff

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

Answer: On 16 December 1971, India won the Bangladesh Liberation War. The Pakistani Army surrendered, leading to the creation of Bangladesh.

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

Answer: INS Vikrant (commissioned in September 2022)

INTELLIGENCE TEST — PART B SOLUTIONS

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

Answer: $\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$ of tank = 80 L. Total = $80 \times \frac{12}{5} = 192$ litres

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

Answer: Total = $15 + 10 - 1 = 24$ soldiers

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

Answer: 4 hours $\times$ 5 min gain = 20 min extra. Watch shows 1:20 PM

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

Answer: Pattern: n, n^2, n^3 . Row 3: 4, 16, 64. Answer = 64

QI5. [5 Marks] A man faces North. Turns 90 deg clockwise, then 180 deg anticlockwise. Direction now?

Answer: North $\rightarrow$ East (90 CW) $\rightarrow$ West (180 ACW). He faces WEST.



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RIMC EXAM PREPARATION TIPS

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Mathematics: Focus on arithmetic (% , ratio, SI/CI, profit-loss), algebra, geometry and time-speed-distance. Practice mental calculations daily.

English: Revise grammar (tenses, voices, articles, punctuation), vocabulary and write paragraphs daily. Read English newspapers.

General Knowledge: Study Indian military history, gallantry awards, geography, national symbols, defence forces structure and current affairs.

Intelligence Test: Practice series completion, coding-decoding, blood relations, mirror images, clock/direction problems and logical reasoning daily.

Physical Fitness: RIMC includes physical tests — practice 1.6 km run, push-ups, sit-ups, pull-ups and flexibility exercises regularly.

Interview: Be confident, well-spoken, know about RIMC, Indian Army history, current affairs and national heroes.

Study Plan: Devote at least 4-5 hours daily. Solve 2 model papers per week. Revise weak areas every weekend.