



राष्ट्रीय प्रौद्योगिकी संस्थान मिजोरम
NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM
(An Institute of National Importance under Ministry of Education, Govt. of India)
CHALTLANG, AIZAWL, MIZORAM - 796012

COMPETITIVE WRITTEN EXAMINATION FOR THE POST OF

JUNIOR ASSISTANT

QUESTION & ANSWER BOOK

PAPER-I

PART-A: GENERAL APTITUDE & REASONING (30 MARKS)

PART-B: GENERAL KNOWLEDGE (30 MARKS)

PART-C: GENERAL ENGLISH (40 MARKS)

Roll No. of the Candidate: _____

Checked by:

Invigilator's signature with date:

1. _____ 2. _____

Name: _____ Name: _____

Centre Superintendent:

Signature with date: _____

Name: _____



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Not to be filled up by Invigilators /Candidates
EVALUATION OF THE QUESTION & ANSWER BOOK

Qn. No	Score of Evaluators (Part-A)		
	1	2	3
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Qn. No	Score of Evaluators (Part-B)		
	1	2	3
1			
2			
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4			
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11			
12			
13			
14			
15			

Qn. No	Score of Evaluators (Part-C)		
	1	2	3
1			
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Name & Signature of Evaluators:

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Total Marks: 100 (Part A + B + C)

Duration: 2 Hours

Qualifying Marks: 30

PART-A: GENERAL APTITUDE & REASONING (15 X 2 = 30 MARKS)

Tick the answers in a blue ball pen

Tick the Correct Choice with a blue ball pen. Selecting more than one choice will result in a ZERO mark.

Qn. No. 1	The length of a rectangle is increased by 25%. By what per cent should its breadth be decreased so as to maintain the same area?	
	a)	15 %
	b)	20 %
	c)	25 %
	d)	30 %

Qn. No. 2	The altitude drawn to the base of an isosceles triangle is 8 cm, and the perimeter is 32 cm. Find the area of the triangle.	
	a)	40 cm ²
	b)	60 cm ²
	c)	80 cm ²
	d)	100 cm ²

Qn. No. 3	If the radius of a circle is decreased by 50%, what is the percentage decrease in its area?	
	a)	25 %
	b)	50 %
	c)	75 %
	d)	20 %



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Qn. No. 4	In how many different ways can the letters in the word “SMART” be arranged?	
	a)	60
	b)	80
	c)	100
	d)	120

Qn. No. 5	An unbiased die is tossed. The probability of getting a multiple of 3 is _____.	
	a)	$1/2$
	b)	$1/3$
	c)	$1/4$
	d)	$1/6$

Qn. No. 6	A man standing on the bank of a river observes that the angle subtended by a tree on the opposite bank is 60 deg. When he moves away by 36 m from the bank, he finds the angle to be 30 deg. The breadth of the river is _____.	
	a)	9 m
	b)	18 m
	c)	27 m
	d)	35 m



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Qn. No. 7	Find the number of bricks, each measuring 24 cm x 12 cm x 8 cm, required to construct a wall of 24 m long, 8 m high, and 0.6 m thick, if 10 % of the wall is filled with mortar.	
	a)	35000
	b)	40000
	c)	45000
	d)	50000

Qn. No. 8	In a 100 m race, A covers a distance in 36 seconds and B in 45 seconds. In this race A beats B by:	
	a)	20 m
	b)	22.5 m
	c)	25 m
	d)	9 m

Qn. No. 9	The angle between the minute hand and the hour hand of a clock when the time is 8:30, is:	
	a)	90 degrees
	b)	75 degrees
	c)	105 degrees
	d)	120 degrees



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Qn. No. 10	Which is the next number in the series: 71, 76, 69, 74, 67, 72, ____	
	a)	77
	b)	65
	c)	80
	d)	76

Qn. No. 11	Find the odd man out: 3, 5, 9, 11, 14, 17, 21	
	a)	21
	b)	17
	c)	14
	d)	9

Qn. No. 12	Find the wrong number in the below series: 3, 10, 21, 36, 55, 70, 105	
	a)	105
	b)	70
	c)	55
	d)	36



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Qn. No. 13	A bag contains 6 white and 4 black balls. Two balls are drawn at random. Find the probability that they are of the same colour.	
	a)	7/15
	b)	15/7
	c)	14/15
	d)	15/14

Qn. No. 14	The diagonal of the cube is $6\sqrt{3}$ cm. Find its volume and surface area respectively	
	a)	$216 \text{ cm}^3, 216 \text{ cm}^2$
	b)	$432 \text{ cm}^3, 216 \text{ cm}^2$
	c)	$216 \text{ cm}^3, 432 \text{ cm}^2$
	d)	$432 \text{ cm}^3, 432 \text{ cm}^2$

Qn. No. 15	The population of a city is decreased by 10 % and 20 % in two successive years. What per cent population is decreased after two years?	
	a)	30%
	b)	28%
	c)	40%
	d)	60%



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PART-B: GENERAL KNOWLEDGE (15 X 2 = 30 MARKS)

Tick the Correct Choice with a blue ball pen. Selecting more than one choice will result in a ZERO mark.

Qn. No. 1	In a workplace, why is it important to regularly check equipment conditions?	
	a)	To follow routine only
	b)	To satisfy aesthetic requirements for the workplace.
	c)	To fix machines only after they have completely stopped working.
	d)	To identify and address potential issues before they cause failure or injury.

Qn. No. 2	Using public transport instead of private vehicles helps to:	
	a)	Waste time
	b)	Increase noise only
	c)	Increase fuel use
	d)	Reduce air pollution and traffic congestion

Qn. No. 3	What was the theme for World Radio Day (February 13, 2026), reflecting the year's major tech trend?	
	a)	Radio and Trust.
	b)	New World, New Radio.
	c)	Radio: A Century of Informing, Entertaining and Educating.
	d)	Radio and Artificial Intelligence: AI is a tool, not a voice.



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Qn. No. 4	Which nation officially adopted the Euro as its currency and the 20th member of the Eurozone?	
	a)	Romania
	b)	Czech Republic
	c)	Croatia
	d)	Bulgaria

Qn. No. 5	Why do clothes dry faster on a windy day?	
	a)	Wind increases the temperature of the air.
	b)	Wind decreases the humidity around the clothes.
	c)	Wind increases the rate of evaporation by removing water vapor.
	d)	Wind lowers the atmospheric pressure.

Qn. No. 6	Why do stars twinkle?	
	a)	Light bends due to Earth's atmosphere.
	b)	Stars move rapidly.
	c)	Clouds cover stars.
	d)	Stars change brightness.



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Qn. No. 7	Why does a metal spoon feel colder than a wooden spoon at room temperature?	
	a)	Wood conducts heat away from your hand faster.
	b)	Metal is colder.
	c)	Wood produces heat.
	d)	Metal conducts heat away from your hand faster.

Qn. No. 8	Why do we see our breath in winter sometimes?	
	a)	Air becomes visible.
	b)	Water vapor condenses into tiny droplets.
	c)	Oxygen becomes visible.
	d)	Cold air is white.

Qn. No. 9	Which scientist proposed the theory of relativity?	
	a)	Isaac Newton
	b)	Albert Einstein
	c)	Niels Bohr
	d)	James Clerk Maxwell



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Qn. No. 10	What is the pH value of a neutral solution at 25°C?	
	a)	0
	b)	5
	c)	7
	d)	14

Qn. No. 11	Hozagiri Dance is associated with which Indian state?	
	a)	A. Mizoram
	b)	B. Tripura
	c)	C. Assam
	d)	D. Nagaland

Qn. No. 12	The Shillong Golf Course is famous for being the first _____ in Asia.	
	a)	A. 9-hole golf course
	b)	B. Indoor golf arena
	c)	C. 18-hole golf course
	d)	D. 16-hole golf course

Qn. No. 13	Loktak Lake is famous for its unique floating islands called:	
	a)	A. Coral reefs
	b)	B. Phumdis
	c)	C. Lagoons
	d)	D. Sand dunes



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Qn. No. 14	Moatsu is a traditional festival of the:	
	a)	Ao people of Nagaland
	b)	B. Bodo people of Assam
	c)	C. Khasi people of Meghalaya
	d)	D. Mizo people of Mizoram

Qn. No. 15	Arunachal Pradesh shares international borders with:	
	a)	China, Bhutan, and Myanmar
	b)	B. Bangladesh, Nepal, and Bhutan
	c)	C. China, Bangladesh, and Nepal
	d)	D. Bhutan, Bangladesh, and Myanmar



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PART-C: GENERAL ENGLISH (20 X 2 = 40 MARKS)

Tick the Correct Choice with a blue ball pen. Selecting more than one choice will result in a ZERO mark.

Qn. No. 1	Identify the error in the given sentence: "Blood pressure (a)/ is measured (b)/ by feeling the pulse (c) and apply a force (d)."	
	a)	
	b)	
	c)	
	d)	

Qn. No. 2	Identify the error in the given sentence: "Mars may looks red (a)/ because (b)/ it is covered with (c) a layer of soft red iron oxide (d)."	
	a)	
	b)	
	c)	
	d)	

Qn. No. 3	Fill the blank in the given sentence with a suitable preposition: "I like jobs that involve a lot ---- travel."	
	a)	about
	b)	with
	c)	of
	d)	on



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Qn. No. 4	Fill the blank in the given sentence with a suitable preposition: "Mango is consumed ---- diverse ways."	
	a)	from
	b)	in
	c)	to
	d)	on

Qn. No. 5	Give one word substitution for the given phrase: "something that becomes outdated"	
	a)	old
	b)	ancient
	c)	useless
	d)	obsolete

Qn. No. 6	Give one word substitution for the given phrase: "a place that provides refuge"	
	a)	asylum
	b)	sanatorium
	c)	shelter
	d)	orphanage



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Qn. No. 7	Identify the word with the correct spelling:	
	a)	feasibel
	b)	feasible
	c)	fascieble
	d)	feaseble

Qn. No. 8	Identify the word with the correct spelling:	
	a)	gregarious
	b)	gragarious
	c)	gragerious
	d)	grigareous

Qn. No. 9	Give the synonym of the given word: "scarce"	
	a)	plenty
	b)	adequate
	c)	inadequate
	d)	sufficient

Qn. No. 10	Give the synonym of the given word: "sonorous"	
	a)	A weak sound
	b)	A shrill sound
	c)	A disturbing sound
	d)	A rich sound



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Qn. No. 11	Give the antonym of the given word: "malady"	
	a)	giddy
	b)	remedy
	c)	parody
	d)	comedy

Qn. No. 12	Give the antonym of the given word: "perplexity"	
	a)	complexity
	b)	chaos
	c)	clarity
	d)	confusion

Qn. No. 13	Identify the meaning of the given phrasal verb: "run into"	
	a)	meet a person with a plan
	b)	meet a person without a plan
	c)	agree with a person politely
	d)	disagree with a person politely

Qn. No. 14	Identify the meaning of the given phrasal verb: "come across"	
	a)	discover by accident
	b)	discover deliberately
	c)	ignore deliberately
	d)	meet with unknowingly



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Qn. No. 15	Identify the meaning of the given idiom: "to see eye to eye"	
	a)	to disengage
	b)	to disobey
	c)	to dispute
	d)	to agree

Qn. No. 16	Identify the meaning of the given idiom: "a thorn in the flesh"	
	a)	a reason to boast of
	b)	a source of support
	c)	a cause of continual trouble
	d)	a matter for discussion

Qn. No. 17	Fill the blank in the given sentence with a suitable verb: "If I ----- you, I would have told the truth."	
	a)	were
	b)	was
	c)	am
	d)	is

Qn. No. 18	Fill the blank in the given sentence with a suitable verb: "A stich in time ----- nine."	
	a)	sells
	b)	shells
	c)	saves
	d)	shaves



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Qn. No. 19	Fill in the blank in the given sentence with a suitable article: "India is one of --- - largest democracies in the world."	
	a)	a
	b)	the
	c)	an
	d)	this

Qn. No. 20	Fill in the blank in the given sentence with a suitable article: "Germany is ---- European country."	
	a)	a
	b)	an
	c)	the
	d)	some