





IIT JEE | MEDICAL | FOUNDATION

Sample Paper – 2 Year JEE Program

NATIONAL ADMISSION TEST

Duration: 2.5 Hrs

Maximum Marks: 230

For Students Currently in Class 10th (Stream: Engineering)

PAPER SCHEME:

- The paper contains **45** Objective Type Questions divided into four sections: **Section I, Section II, Section II**, **Section IV**
- Section I contains 5 Multiple Choice Questions (1-5) based on Mental Aptitude. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section II contains 10 Multiple Choice Questions (6-15) based on Science. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section III contains 20 Multiple Choice Questions (16-35) based on Mathematics. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section IV contains 10 Numerical Value Type Questions (1-10). The answer to each of these questions ranges from 0 to 99.

MARKING SCHEME:

- Section I: For each question, 4 marks will be awarded for correct answer and -1 negative marking for incorrect answer.
- Section II & III: For each question, 5 marks will be awarded for correct answer and -1 negative marking for incorrect answer.
- Section IV: For each question, 6 marks will be awarded for correct answer and No negative marking for incorrect answer.

GENERAL INSTRUCTIONS:

- For answering a question, an **ANSWER SHEET (OMR SHEET)** is provided separately. Please fill your **Name**, **Roll Number, Seat ID, Date of Birth** and the **PAPER CODE** properly in the space provided in the **ANSWER SHEET.** IT IS YOUR OWN RESPONSIBILITY TO FILL THE OMR SHEET CORRECTLY.
- A blank space has been provided on each page for rough work.
- Violating the examination room discipline will immediately lead to the cancellation of your paper and no excuses will be entertained.
- No one will be permitted to leave the examination hall before the end of the test.
- Please submit both the question paper and the answer sheet to the invigilator before leaving the examination hall.

SUGGESTIONS:

- Before starting the paper, spend 2-2.5 minutes to check whether all the pages are in order and report any issue to the invigilator immediately.
- Try to attempt the Sections in their respective order.

 $36 \times 4 - 12 + 5 \div 3 = 420$

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• Do not get stuck on a particular question for more than 2-2.5 minutes. Move on to a new question as there are 45 questions to solve.

SECTION - I [MENTAL APTITUDE]

Direction for (1 – 2)

(C)

Some groups of letters are given, all of which except one, share a common similarly while one is different. Choose the odd one out.

1.	Choose	e the odd one out	t.							
	(A)	HSRI	(B)	MVUN	(C)	OLKP	(D)	PJQX		
2.	Choose	e the odd one out	t.							
	(A)	YDWB	(B)	TKRI	(C)	QNOM	(D)	HLFJ		
3.	ABCD	EFGHIJLKLMN	NOPQRS	STUVWXYZ						
	If 1 st half of the English alphabet is written in backward order, then what will be the 7 th letter to the left									
	the 10 ^t	^h letter from you	r right?			7 66.				
	(A)	С	(B)	Е	(C)	D	(D)	J		
4.	One m	orning Udai and	l Vishal	were talking to	each oth	her face to face	at a cros	ssing. If Vishal's shadow		
	was exactly to the left of Udai, which direction was Udai facing?									
	(A)	East	(B)	West	(C)	North	(D)	South		
5.	If – me	eans ÷,+means	×,÷mea	ns $-, \times$ means $+,$	then wl	hich of the follow	wing is c	orrect?		
	(A)	36-12×6÷3-	+4 = 60		(B)	$52 \div 4 + 5 \times 15$	-3 = 37			

(D) $43 \times 7 + 5 + 4 - 8 = 25$

SECTION - II [SCIENCE]

6.	The rate	e of change of di	splacen	nent is called:				
	(A)	Momentum	(B)	Speed	(C)	Velocity	(D)	Acceleration
7.	The SI	unit of momentu	m is:					
	(A)	Newton	(B) N	Newton - Second	(C)	Dyne	(D)	Dyne - Second
8.	When u	inbalanced force	s act on					
	(A) Must move with uniform velocity					Must remain at	rest	
	(C)	Must experience	e accele	eration	(D)	Must move in a	curved	path
9.	Work done is always:							
	(A)	Scalar quantity	(B)	Vector quantity	(C)	Positive	(D)	Negative
10.	The uni	t of relative dens	sity is:					
	(A)	$\rm g~cm^{-3}$	(B)	$kg m^{-3}$	(C)	$kgFm^{-3}$	(D)	No unit
11.	When n	nagnesium ribbo	n is bur	nt in air, the ash	formed i	is:		
	(A)	White	(B)	Green	(C)	Yellow	(D)	Black
12.	Baking	powder contains	s sodiun	n hydrogen carbo	nate &			
	(A)	Tartaric acid	(B)	Washing soda	(C) C	alcium chloride	(D)	Acetic acid

13.	Cu+H	$HCl(aq) \rightarrow$						
	(A)	React vigorous	sly		(B)	No reaction		
14.	(C) How n	React moderat	ely vdroxyl i	ion present in a	(D) sample o	React slowly of 3 moles of alur	ninium l	vdroxide?
1.11	(A)	1 mole	(B)	3 moles	(C)	6 moles	(D)	9 moles
15.	Which	of the following	g shows	the electronic co	onfigurat	ion of Ca^{2+} ?		
	(A)	He	(B)	Ne	(C)	Ar	(D)	F
			SE	CTION - III [I	MATHE	MATICS]		
16.	If x, x	+2 and $x+4$ are	positive	e prime number	s then 10.	x is equal to:		CE 1901
	(A)	30	(B)	50	(C)	70	(D)	Can have many values
17.	Select	the correct order	r:			262		N
	(A)	$\frac{7}{8} < \frac{15}{16} < \frac{9}{10} <$	$\frac{39}{40}$		(B)	$\frac{7}{8} < \frac{39}{40} < \frac{9}{10} <$	$\frac{15}{16}$	
	(C)	$\frac{7}{8} < \frac{9}{10} < \frac{15}{16} <$	$\frac{39}{40}$		(D)	$\frac{7}{8} < \frac{9}{10} < \frac{39}{40} <$	$\frac{15}{16}$	
18.	$2^{x+3} -$	$2^x = 56$ then (x	+ 5) =		- DI			
	(A)	3	(B)	8	(C)	7	(D)	10
19.	A pers	on sells a T.V.	at Rs. 1	0000 making a	profit of	25% and a frid	ge at Rs	. 20000 making a loss of
	20%, t	hen overall.		E				
	(A)	Profit is Rs. 30	000		(B)	Loss is Rs. 500)0	
20	(\mathbf{C})	Loss is Rs. 300)U of 70% (and 200% is ague	(D)	Profit is Rs. 50)00 f.	
20.	(A)	90%	(B)	24%	(C)	74%	(D)	76%
21.	If $(x - x)$	1) divides ax^2 +	-x + 3co	mpletely then '	a' is equa	al to:	(_)	
	(A)	4	(B)		(C)	3	(D)	_3
22.	If $x + \frac{1}{2}$	$y-1=0$ and αx	$+2\beta y -$	-3=0 represent	coincide	nt lines then $6(a)$	(\boldsymbol{B}) $(\boldsymbol{\beta})$ is	equal to:
	(A)	18	(B)	54	(C)	27	(D)	9
23.	The su	m of interior ang	gles of a	hexagon is equ	al to:		~ /	
	(A)	1080°	(B)	540°	(C)	360°	(D)	None of these
24.	Select	the incorrect sta	tement f	or two congrue	nt triangle	es.		
	(A)	Areas are equa	l ,		(B)	Corresponding	altitude	s are not equal
25	(C)	Corresponding	g angles a	are equal	(D)	Corresponding	median	s are equal $ar(ABC)$ is equal to:
23.	D anu	E are find points	s of sides	AD allu AC IE	spectiver	y as $(DECB) = ($)Auten (ar (ABC) is equal to.
				Ĩ		_		
				D/		E		
				<u>/</u> B		C		
	(A)	8A	(B)	12A	(C)	10A	(D)	9A
26.	The le	ngth of the altitu	ides from	n a vertex of th	e parallel	logram to the oth	ner two s	sides are 10 and 12. If the
	paralle	logram has a per	rimeter (\mathbf{P})	ot 176, find the 600	area.	200	(D)	490
	(A)	240	(D)	000	(U)	500	(U)	400

27.	AP and AQ are tangents to a circle and 'B' is the centre. $\angle PAB = 30^{\circ}$ then $\angle QPB$ is equal to:									
				A	P	PB)				
	(A)	60°	(B)	45°	(C)	30°	(D)	15°		
28.	Sides o	f a triangle are 1	13, 14 an	d 15 then altitud	e on sid	e of length 13 is	equal to	:		
	(A)	$\frac{168}{13}$	(B)	$\frac{84}{13}$	(C)	7	(D)	$\frac{126}{13}$		
29.	Sphere	and cylinder ha	ve equal	curved surface a	areas and	l equal heights th	nen ratio	of radii is equal to:		
	(A)	1:1	(B)	2:1	(C)	1:2	(D)	1:4		
30.	The vo	lume of a cube i	s V and	diagonal is 'd' th	nen:					
	(A)	$d^3 = 27V$	(B)	$d^3 = 9\sqrt{3}V$	(C)	$d^3 = 6\sqrt{3}V$	(D)	$d^3 = 3\sqrt{3}V$		
31.	The av	erage of five nu	mbers is	10, one of then	n is dout	oled then average	e is 12.4	. The number which was		
	double	d is equal to:						asb		
	(A)	10	(B)	12	(C)	14	(D)	8E190		
32.	$\sin\theta$ +	$\cos\theta = \sqrt{2}$ then	$\tan \theta$ is	equal to: $[0^\circ < \theta]$	<90°]	13. 6				
	(A)	$\sqrt{3}$	(B)	$\frac{1}{\sqrt{3}}$	(C)	1550	(D)	None of these		
33.	A bag l	has 3 red balls an	nd <i>x</i> blue	e balls. The prob	ability o	f getting blue ba	ll is $\frac{3}{4}$ th	then 'x' is equal to:		
	(A)	3	(B)	6	(C)	9	(D)	None of these		
34.	Which	of the following	stateme	ents must be true	for a kit	e?				
	(A)	Diagonals bise	ct each o	other	(B)	Diagonals are p	perpendi	cular to each other		
	(C)	Each pair of ad	ljacents s	sides are equal	(D)	Both pair of op	posite si	des are equal		
35.	The dis	stance of line 6x	+8y=1	0 from origin is	equal to:	:				
	(A)	2	(B)	1	(C)	3	(D)	4		

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SECTION - IV [NUMERICAL VALUE TYPE QUESTION]

This Section contains 10 Integer-Type Questions. Each question has an integer answer between 0 and 99. Enter the correct Numerical Value.

- 1. Let $P(x) = x^4 + ax^3 + bx^2 + cx + d$. P(1) = 1, P(2) = 2, P(3) = 3 and P(4) = 4 then P(5) is equal to:
- 2. If a, b and c are positive numbers such that $x^3 6x^2 37x 30 = (x+a)(x+b)(x-c)$ then value of a+b+c is equal to:
- 3. The value of $\sqrt{20 + \sqrt{20 + \sqrt{20 + \dots}}}$ is equal to:
- 4. If $5 \le x \le 10$ then the value of $\sqrt{x+3-4\sqrt{x-1}} + \sqrt{x+8-6\sqrt{x-1}}$ is equal to:
- 5. As shown in the diagram above, there lie 3 squares between 2 parallel lines such that each pair (line, square) or (square, square) just meet at a vertex. Find the measure of angle x in degrees.



- 6. The perimeter and area of an isosceles triangle are 50 cm and 60 cm². If equal sides of triangle are smaller than the third side then largest side of triangle is equal to: (all sides of triangle are integers)
- 7. ABCD is a square of side length 20 *m*. P, Q, R and S are mid points of sides of ABCD as shown. Joining PC, QD, RA and SB we get a new quadrilateral EFGH, then the area of EFGH is equal to:



- 8. If $\frac{\sin^4 x}{3} + \frac{\cos^4 x}{2} = \frac{1}{5}$ then $6(\cos ec^2 x + \sec^2 x)$ is equal to:
- 9. ABCD is a square with AB = 13. Points E and F are exterior to ABCD such that BE = DF = 5 and AE = CF = 12. If the length EF can be represented as $a\sqrt{b}$, where a and b are positive integers and b is not divisible by the square of any prime, then find ab.



10. In the diagram, line segment PT is tangent to both circle O and circle O'. Given the following three lengths: AB = 35, PC = 30, CD = 20, what is PA?



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Code - A Answer KeyCode A DifficultyCode-A SubjectCode-A TopicCode-A SkillCode-A tee marksCode-A ve marks1DMediumMental AptitudeVerbal ClassificationApplication412CDifficultMental AptitudeClassificationApplication413CMediumMental AptitudeCoding DecodingApplication414CMediumMental AptitudeAnalytical ReasoningConceptual415BMediumMental AptitudeArithmetical ReasoningCalculation416CEasyScienceForce and Laws of MotionConceptual517BEasyScienceForce and Laws of MotionConceptual519AEasyScienceGravitationConceptual5110DEasyScienceChemical Reaction and EquationsMemory Based5111AEasyScienceAcids, Bases and SaltsMemory Based5112AEasyScienceMetal and NumbersApplication5113BEasyScienceAcids, Bases and SaltsMemory Based5114DEasyScienceStructure of AtomApplication5115CEasyMathsReal NumbersApplication5116A <t< th=""><th colspan="10">2 Year JEE Sample Paper Answer Key</th></t<>	2 Year JEE Sample Paper Answer Key									
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18BEasyMathsNumber SystemConceptual5119CMediumMathsProfit and LossCalculation5120DEasyMathsPercentageCalculation5121BEasyMathsPolynomialsApplication5122CEasyMathsLiner Equations in two variablesConceptual5123DEasyMathsLines and AnglesMemory Based5124BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	17	С	Easy	Maths	Rational Numbers	Calculation	5	1		
19CMediumMathsProfit and LossCalculation5120DEasyMathsPercentageCalculation5121BEasyMathsPolynomialsApplication5122CEasyMathsLiner Equations in two variablesConceptual5123DEasyMathsLines and AnglesMemory Based5124BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	18	В	Easy	Maths	Number System	Conceptual	5	1		
20DEasyMathsPercentageCalculation5121BEasyMathsPolynomialsApplication5122CEasyMathsLiner Equations in two variablesConceptual5123DEasyMathsLines and AnglesMemory Based5124BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	19	С	Medium	Maths	Profit and Loss	Calculation	5	1		
21BEasyMathsPolynomialsApplication5122CEasyMathsLiner Equations in two variablesConceptual5123DEasyMathsLines and AnglesMemory Based5124BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	20	D	Easy	Maths	Percentage	Calculation	5	1		
22CEasyMathsLiner Equations in two variablesConceptual5123DEasyMathsLines and AnglesMemory Based5124BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	21	В	Easy	Maths	Polynomials	Application	5	1		
23DEasyMathsLines and AnglesMemory Based5124BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	22	С	Easy	Maths	Liner Equations in two variables	Conceptual	5	1		
24BEasyMathsTrianglesMemory Based5125AMediumMathsQuadrilateralsApplication51	23	D	Easy	Maths	Lines and Angles	Memory Based	5	1		
25 A Medium Maths Quadrilaterals Application 5 1	24	В	Easy	Maths	Triangles	Memory Based	5	1		
	25	А	Medium	Maths	Quadrilaterals	Application	5	1		
26 D Easy Maths Parallelogram Application 5 1	26	D	Easy	Maths	Parallelogram	Application	5	1		
27 C Easy Maths Circles Application 5 1	27	С	Easy	Maths	Circles	Application	5	1		
28 A Easy Maths Heron's Formula Application 5 1	28	А	Easy	Maths	Heron's Formula	Application	5	1		
29 A Easy Maths Surface Areas Conceptual 5 1	29	А	Easy	Maths	Surface Areas	Conceptual	5	1		
30 D Medium Maths Volumes Conceptual 5 1	30	D	Medium	Maths	Volumes	Conceptual	5	1		
31 B Easy Maths Statistics Calculation 5 1	31	В	Easy	Maths	Statistics	Calculation	5	1		
32 C Medium Maths Trigonometry Application 5 1	32	С	Medium	Maths	Trigonometry	Application	5	1		
33 C Easy Maths Probability Application 5 1	33	С	Easy	Maths	Probability	Application	5	1		
34 B Easy Maths Quadrilaterals Memory Based 5 1	34	В	Easy	Maths	Quadrilaterals	Memory Based	5	1		
35 B Easy Maths Linear Equations Application 5 1	35	В	Easy	Maths	Linear Equations	Application	5	1		
1 29 Difficult Maths Polynomials Conceptual 6 0	1	29	Difficult	Maths	Polynomials	Conceptual	6	0		
2 14 Medium Maths Polynomials Calculation 6 0	2	14	Medium	Maths	Polynomials	Calculation	6	0		
3 05 Easy Maths Number System Conceptual 6 0	3	05	Easv	Maths	Number System	Conceptual	6	0		
4 01 Difficult Maths Number System Application 6 0	4	01	, Difficult	Maths	Number System	Application	6	0		
5 70 Difficult Maths Lines and Angles Conceptual 6 0	5	70	Difficult	Maths	Lines and Angles	Conceptual	6	0		
6 24 Difficult Maths Herons Formula Calculation 6 0	6	24	Difficult	Maths	Herons Formula	Calculation	6	0		
7 80 Difficult Maths Quadrilaterals Application 6 0	7	80	Difficult	Maths	Quadrilaterals	Application	6	0		
8 25 Medium Maths Trigonometry Application 6 0	8	25	Medium	Maths	Trigonometrv	Application	6	0		
9 34 Difficult Maths Trigonometry Application 6 0	9	34	Difficult	Maths	Trigonometry	Application	6	0		
10 25 Easy Maths Circles Conceptual 6 0	10	25	Easv	Maths	Circles	Conceptual	6	0		

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