

MCA ENTRANCE CLASSES By Shivam Gupta

JAMIA MILLIA ISLAMIA- 2016

ORIGINAL PAPE					PAPER				
۱.	$\lim_{x \to \frac{\pi}{4}} \frac{\sin x - \cos x}{x - \frac{\pi}{4}} \text{ is equal to } \dots$				(a) 1		(b) ∞	(c) 0	(d) 1/3
		$(c) - \sqrt{2}$	$(d)\sqrt{2}$	14.		sin ⁴ 6	$\theta = \sin^2 \theta$, the $\theta + 8 \sin^2 \theta$ is (b) 3		(d) 1
	(a) \sqrt{x} (b) $\frac{1}{\sqrt{x}}$ If $\lim_{x \to a} \frac{a^x - x^a}{x^x - a^a} = -1$, then 'a' is	(c) $2\sqrt{x}$	(d) $\frac{1}{2\sqrt{x}}$	15.	If $\cos^2 \theta + (a) a < 1$ (c) $2 > a > 0$		$\theta = a$, then .	(b) $a = 1$ (d) $a \ge 2$	
	(a) 0 (b) 1	(c) ∞	(d) – 1	16.		tude o	$f \frac{1+i\sqrt{3}}{\sqrt{3}+1}$ is equal $(h) \frac{\pi}{2}$		(d) π
	$\lim_{x \to a} \frac{x^{10} - a^{10}}{x^2 - a^2} \text{ is equal to } \dots$ (a) $10a^9$ (c) $5a^8$	(b) $5a^9$ (d) $10a^8$		17.	If z be a c	comple r of sc	ex number and	$1\bar{z}$ be its conjugation $z^2 + 2z^2$	gate, then
	A STATE OF THE STA	(c) 10	(d) 2			on z^2	$+ z ^2=0 \text{ is.}.$		olution of d) $3 - 4i$
	$\int \frac{1 + \log x}{x} dx \text{ is equal to } \dots \dots$ $(a) \frac{1}{2} (1 + \log x)^2$	$(b) \frac{1}{2} (\log x)^2$	Co	19,	If ω is a cu	ıbe ro ω²)(1	ot of unity, the $1 - \omega + \omega^2$) is	n the value of	(d) 4
7.	(c) $(1 + \log x)^2$ If $x > 0$, then $\int x ^3 dx$ is equal $(a) - \frac{x^4}{4}$	(d) $(\log x)^2$ and to (b) $\frac{x^4}{4}$	V	20.	Let cube following i	root		(c) 3 $1, \omega, \omega^2$. Which ation $(x-1)^3$	ch of the
	(c) $\frac{ x ^4}{4}$ If $\int_0^{\pi/4} \sec^2 x \sin x dx = a + \frac{\pi}{4}$	(d) $ x ^4$	equal to	21.			nn A.P. is n an	(b) $(1 - \omega)$ (d) $(1 - 2\omega^2)$ and its n^{th} term	,
	(a) 0 (b) 1 $\int_0^1 \frac{x}{(1-x)^{1/2}} dx \text{ is equal to } \dots$	(c) – 1	(d) 2		its 10^{th} ter (a) $m + n$ (c) $n - m$	- 10		(b) $m - n - 1$ (d) $m + n + 1$	
	(a) $1/3$ (c) $-3/4$ $\int \sqrt{x}e^{\sqrt{x}} dx$ is equal to	(b) $-1/3$ (d) $-4/3$		22.		59, the	ms of an A.P. on n is equal to (b) 2	is $3n^2 + 5$. If (c) 27	T_n of this (d) 36
	(a) $(2x - 4\sqrt{x} + 4)e^{\sqrt{x}}$ (c) $(2x - 4)e^{\sqrt{x}}$	(b) $(2x^2 - 4x^2 + 4x^2 - 4x^2 + 4x$	$(e^{\sqrt{x}})$	23.	If the root	s of then	he equation x	$3 - 9x^2 + 23x$ difference will (c) ± 4	-15 = 0
	If $\cos \theta + \sec \theta = 3$, then $\cos \theta$	(c) 4	(d) 0	24.	If $\log_2(5.2)$	$2^{x} + 1$		$+ 1$), and 1 are (b) $1 + \log_2 5$	e in A.P.,
3.	(a) 5 (b) 6 The value of $\tan 1^{\circ}$. $\tan 2^{\circ}$. $\tan 2^{\circ}$	(c) 4 in 3 ⁰ tan 8	(d) 7 89 ⁰ is		(c) $1 - \log 2$	g ₅ 2		$(d) 1 - \log_2 5$	

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25.	If sum of n series is	terms of a seri	ies is $3n^2 + 4$	4n, then the	39.	If $y = x + e^x$, then $\frac{dx}{dy}$ is	
	(a) A.P.	(b) G.P.	(c) H.P.	(d) A.G.P.		(a) e^x	(b) $\frac{1}{(1+e^x)^2}$
		$_3 = ^7 C_2$, then r i				$(c)\frac{1}{(1+e^x)}$	$(d) - \frac{1}{(1+e^x)}$
2000	(a) 4	(b) 5	(c) 6	(d) 7	40.	If $y = (x^x)^x$, then $\frac{dy}{dx}$ is equal	al to
27.		of arrangement				(a) $xy + 2xy \log x$	
		n which two N's	do not appea	ar adjacently		(c) $xy + \log x$	(d) $y + 2xy \log x$
	is	(h) 50	(5) 60	(4) 70	41.	The points $A(12,8), b(-2,6)$	
	(a) 40	(b) 50 of numbers g	(c) 60	(d) 70		vertices of	Section Sectio
20.		the digits 1, 2,		Sood call be		(a) Right angled triangle	(b) Isosceles Triangle
	(a) 80	(b) 90	(c) 120	(d) 150		(c) Straight Line	(d) Equilateral Triangle
29		ent of x^8y^{10} in			42.	If the point $P(x,y)$ be equ	
٠,٠				(d) $^{18}C_{10}$		A(a+b,b-a) and $B(a-b)$	(a+b), then
50002		(b) $^{18}P_{10}$	Section Code	(a) C_{10}		(a) $ax = by$	(b) $bx = ay$
30.		ent of x^4 in expansion				(c) xy = ab	(d) x + y = a + b
		$(x^2 + x^3)^{11}$ is		Mandal Managaran	43.	The number of the lines	역 - 맛있는 1100 - 1200 - 1200 - 1200 - 1200 - 1200
			(c) 999	(d) 1000		2x + 6y + 7 = 0 and have a	(Fig. 15797)
31.		t of cardinality		er of one to	9	between the coordinate axes i	
		ctions from set		2		(a) 4 (b) 3	(c) 2 (d) 1
	(a) 2^n	18 19	(c) n^n	(d) n^3	44.	The four lines $ax \pm by \pm c =$	
52.		unction from a				najvys all the second and the secon	rallelogram
		a finite set B ha		nts, then the	-		nombus
		unctions from A		(4) 105	45.	The area bounded by the	150 H 150 H
	(a) 5 ¹⁰	(b) 50	(c) 10^5	(d) 105		$y = - x + 1 \text{ is } \dots \text{ square } 1$	
33.		re two sets, then	The second second		10	(a) 1 (b) 2	(c) 3 (d) 4
2.1	(a) B If $A = \{a, b\}$	147 (1991)	$(c) \phi$	(d) A – B	46.	The number of vectors of uni	
		$\{c\}$ and $B = \{c\}$		or revenues.		vectors $\vec{a} = i + j$ and $\vec{b} = k$	(i)
	(a) 3	of elements in (2) (b) 2	(c) 1	(d) 0	-	(a) 1 (b) 2	(c) 3 (d) infinite $$
35		are two disjo			47.	The angle between vectors \vec{a}	
JJ.		pectively, then			12/8/200	(a) 0^0 (b) 45^0	
	contains		WCI-SCI OI I	I A (D H)	48.	Two dice are thrown. The pr	
			(c) 2 ⁶	(d) 2^{15}		the numbers on two dices wil	
26					40	(a) 5/36 (b) 1/36	
		$\left\{\frac{1+\tan x}{1-\tan x}\right\}$, then			49.	A single letter is selected a	
		(b) 0		(d) $\sec^2 x$		"JAMIA". The probability tha	
37.	If $y = \log ta$	$\ln \theta$, then $\frac{dy}{d\theta}$ is e	qual to		50	23 N N N N N N N N N N N N N N N N N N N	(c) 1/5 (d) 4/5
	(a) 2 sec 2 <i>θ</i>	ш	(b) $2 \sec^2 \theta$		50.	One die and a coin are tos	
	(c) $\sec \theta \cos \theta$	sec 0	(d) 2 cosec ²	$^{2}\theta$		probability of getting 6 on die	V.
38		$\sqrt{y-x}=a$, th			000000	(a) $\frac{1}{3}$ (b) $\frac{1}{4}$ (c) $\frac{1}{12}$	
				WX 0-9200-000	51.	The 2's complement of	f the binary number
	(a) – 2a	(b) $2/a^2$ (c)	2/a	(d) 2a	<u> </u>	(10101000) ₂ is?	
_		-l /N	J	. I D	~	day Vanana	8400072444

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	(a) (01010111) ₂	(b) (01011111) ₂	ĺ	(c) EEPROM	(d) All of these
	$(c) (01011000)_2$	(d) $(11111000)_2$	64.	Who originated the co	ncept of programmable
52.	Which of the following is no	t a universal logic gate?		computer, and considered	as the 'father of the
	(a) NAND	(b) NOR		computer'?	
	(c) Both (a) and (b)	(d) XNOR		(a) Bill Gates	(b) Tim Berners – Lee
53.	Intel 8085 is a(n) bi	it microprocessor?		(c) Steve Jobs	(d) Charles Babbage
	(a) 4 (b) 8	(c) 16 (d) 32	65.	Which of the following state	ements is false?
54.	Which of the following is no	t a Web Browser?		(a) Static RAM is faster that	
	(a) iOS	(b) Internet Explorer		(b) Static RAM uses transis	tors
	(c) Chrome	(d) Safari		(c) Dynamic RAM uses car	pacitors
55.	Which of the following CF	U registers contains the		(d) Static RAM requires ref	reshing
	address of next instructi		66.	The binary of the decimal no	umber 219 is
	execution?	5 1 5		(a) (11011011) ₂	(b) (10101010) ₂
	(a) Program Counter	(b) Accumulator		(c) $(11110000)_2$	(d) (11001100) ₂
	(c) Index Register	(d) Instruction Register	67.	The Octal equivalent of	the state of the s
56.	1 Petabyte is equivalent to 10		100,000	$(A07)_{16}$ is	
	(a) Megabytes	(b) Gigabytes	~	(a) (7005) ₈	(b) $(1007)_8$
	(c) Exabyte's	(d) Terabytes		(c) (5007) ₈	(d) (4055) ₈
57.	Which of the following is a C	Class-A IP address?	68.	If $(2?5)_8 = 141$, then the n	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	(a) 191.10.50.0	(b) 164.255.10.1		(a) 1 (b) 2	(c) 3 (d) 4
	(c) 125.10.10.1	(d) 220.10.10.1	69.	Which of the following is a	Control of the contro
58.	The default subnet mask for	class-A IP address is		language?	
	(a) 255.255.255.0	(b) 255.255.0.0		(a) Machine Language	(b) Assembly Language
	(c) 255.0.0.0	(d) 0.0.0.0		(c) Both (a) and (b)	(d) COBOL
59.	Which of the following IP	address class is reserved	70.	If $(123)_b = 291$, then the v	alue of the base 'b' is?
	for multicasting?			(a) 4 (b) 8	(c) 10 (d) 16
	(a) Class – A	(b) Class – B	71.	If '120456' is to '315', then	'204562' is to
	(c) Class – C	(d) Class – D		(a) 816 (b) 2134	(c) 613 (d) 415
60.	The number of links in a fu	lly mashed network of N	72.	263:36::139:?	
	nodes is			(a) 36 (b) 27	(c) 63 (d) 72
	(a) N	(b) N^2	73.	MNPQ:QTRU::FIGP:?	
	$(c)\frac{N(N-1)}{2}$	$(d) \frac{N(N+1)}{2}$		(a) JMTK (b) JMKU	(c) JMKT (d) MKUJ
61	Which of the following is an		74.	Three of the following four	are alike in a certain way
01.	(a) Operating System			and so form a group. Which	h is the one that does not
	(c) BIOS	(d) Word Processor		belong to that group?	
62	Which of the following			(a) 185 (b) 165	(c) 65 (d) 85
02.	principle of the 'locality of re		75.	Three of the following four	are alike in a certain way
	(a) Flash Memory	(b) Associative Memory		and so form a group. Choose	e the odd one out?
	(c) Cache Memory	(d) Magnetic Tape		(a) 3, 7, 11, 13	(b) 6, 8, 15, 18
63	Which of the following car	Y9 12 10.744	2000		, 5, 7, 17
	data to be erased at byte-leve	N. (1)	76.	Which of the following is	a wrong number in the
	(a) PROM	(b) EPROM		series: 78,57,36,19,10,2,	?
	/-/ - *** */*	V-7		(a) 2 (b) 10 (d) 3	6 (d) None
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77.	. What will be the next number in the following series?			mother of Y' ; X/Y'		
	2, 6, , 42, 1806,			Y'. Then which of the following expression		
	(a) 20005	(b) 251645		indicates		public entre cont. This is described and
	I 3263442	(d) None of these		(a) $Q - P + R/T$	(b) $P \times Q$	-
78.	A letter series is given in			(c) $P \times Q/R - T$	2017 Successive Contraction	
	missing. The missing letters	1976 1776 1776 1776		A, B, C, D and E whe	en arranged in de	scending order
	sequence as one of the o	options. Find the correct		of their weights from	the top, A become	nes third, E is
	options.			between D and A whi	ile C and D are	not at the top.
	C_BBA_CAB_AC_AB	_AC		Who among them is the	e second heaviest	?
	(a) BABCC	(b) ACBCB		(a) A (b) B	(c) C	(d) E
	I ABCBC	(d) BCACB	90.	Q, R, S, T, U and V are	e seated in a strai	ight line facing
79.	One terms in the following	number series is wrong		North. S is second to the	he right of T and	T is second to
	Find out the wrong term. 1, 2	2, 6, 15, 30, 56		the right of Q. R is to	the left of Q and	second to the
	(a) 6 (b) 15	(c) 30 (d) 56		left of V. What is Q's p	osition with resp	ect to S?
80.	If '234' is to '10', then '345'	is to		(a) Third to left	(b) Four	th to left
	(a) 13 (b) 11	(c) 12 (d) 10		I Second to left	(d) Fifth	to left
81.	Find odd one out		91	Which of the follow	wing is not a	synonym of
	(a) C (b) I	(c) S (d) T		"sympathy"?	1.50	
82.	If $HOTEL = 55$, then $BORE$	= ?		(a) Pity	(b) Consolat	ion
	(a) 40 (b) 45	(c) 35 (d) 55		I Hostility	(d) Commis	
83.	. In a certain code 13479 is written as AQFJL and 5268			Which of the following	is the antonym o	f"patience"?
	is written as DMPN. How	is 396824 written in that	100	(a) Forbearance	(b) Stoicism	V.
	code?			I Sufferance	(d) None of th	ese
	(a) QLPMNF	(b) QLPNKJ	93.	Which of the following	words is correct	ly spelled?
	I QLPNDF	(d) QLPNMF		(a) Liaison	(b) Liasion	
84.	If $54 + 43 = 2$, $60 + 51 =$	10, then $62 + 72 = ?$		I Liason	(d) None of	these
	(a) 9 (b) 10	(c) 18 (d) 27	94.	The past participle of th	he verb "become"	' is
85.	A and B are brothers. C and	d D are sisters. A's son is		(a) Became	(b) Become	
	D's brother. How is B related to C?			I Become	(d) None of	these
	(a) Father	(b) Brother	95.	The simple past of the	verb "set" is	
	I Uncle	(d) Grandfather		(a) Sit (b) Set	(c) Sat	(d) None
86.	Introducing Sanjay, Rinki sa	id, "His brother's father is	96.	What year did you	univers	ity?
	the only son of my grandfatl	her". How is Rinki related		(a) Graduate	(b) Grad	- 5
	to Sanjay?			I Graduate from		uating from
	(a) Sister (b) Mother	(c) Niece (d) Daughter	97.	I have trouble		0
87.	A is the brother of B, B is	the brother of C. D is the				
	father of A. Which of the following statements cannot			(a) Remembering my p	assword	
	be definitely true?			(b) Remember my pass		
	(a) B is the brother of A (b) B is the son of D			(b) Remember my pass	sworu	
	(c) A is the brother of C	(d) C is the brother of A		(c) To remember my pa	assword	
88.	'X + Y' means 'Y is the brot	50 BC		C, ,		
	'Y is the husband of X' ; 'X –			(d) To remembering my	y password	
	AND TOWN THE PROPERTY OF THE P		1			

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98.	Albert Einstein became famous mainly							
	for his work on relativity; he received the Nobel Prize							
	for his work on photoelectric law.							
	(a) Because	(b) As long as						
	(c) Ever since	(d) Despite the fact that						
99.	There are many internight – time sky.	esting eventsin the						
	(a) Being observed	(b) Having observed						
	(c) That observed	(d) Which are observing						
100). We must be grateful	for the blessing that God has						
	on us.							
	(a) Bestowed	(b) Given						
	(c) Granted	(d) Presented						

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