## Question Paper of JNU MCA 2018 by JMA

	d the solution of lin		Chr. T.A.	(0)	0	(4)	1/
(a)	U.	(b)		(c)	O	(d)	/2
То	remove a relation i	in SQL da	tabase we use		command.		
(a)	Remove	(b)	Purge	(c)	Deleted	(d)	Drop tabl
ſΙο	gxdx		Diana fre				
(a)	x log (x / e)	(b)	x log (e/x)	(c)	x log x	(d)	1/x
Q	UESTION PAPER	OF JNU	MCA ENTRANCE	2018 b	y Jitendra Mishra A	cadem	y, Indore
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\An	table car i too						
	ich is not a leap ye		000	(-)	1000	7-15	2222
(a)	700	(D)	800	(c)	1200	(a)	2000
If 4	coins are thrown t	ogether tl	nen probability tha	t at leas	t one head occurs		
(2)	5	(b)	3	(c)	1 16	(4)	15 16
(a)	16	(10)	8	(0)	16	(u)	16
Wh	ich is not a irration	al numbe	r	ATT:	1 70		
(a)	π	(b)	$\sqrt{2}$	(c)	√3	(d)	$\sqrt{4}$
					/ N U	u.	
			10 1000 - T 1000 -	30.00	y Jitendra Mishra A		
	Total Control				1CA Entranc		
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Cor	nvergence sequen	ce has lin	nit				
	only one limit	TO THE R. P. L. P. L. P.	only two limit	(c)	only Three limit	(d)	None
The	e operation through	NOT GA	TE is also	Sin	1 D		
1110		ALC: NO PERSON NAMED IN	Inverting	(c)	Reverting	2.00	Reversing

(c) 7

(d) none

(b) 6

10. Statement: All mango is golden colour.

No golden colour things are cheap.

Conclusion: I. All mangoes are cheap.

II. Golden coloured mangoes are not cheap.

- (a) Only Conclusion I is true
- (b) Only Conclusion II is true
- (c) either conclusion I or II is true
- (d) Neither conclusion I nor II is true.
- 11. Find the eigen vector corresponding to eigen value  $\lambda = 2$  for the matrix  $A = \begin{bmatrix} 5 & 3 \\ 2 & 4 \end{bmatrix}$ 
  - (a)  $\begin{bmatrix} 3 \\ 2 \end{bmatrix}$
- (b)  $\begin{bmatrix} 3 \\ -2 \end{bmatrix}$
- (c)  $\begin{bmatrix} 1 \\ -1 \end{bmatrix}$
- (d) 1

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- 12. If  $u = \tan^{-1} \left[ \frac{x^3 + y^3}{x + y} \right]$  then find the value of  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y}$ ?
  - (a) sin u
- (b) sin 2u
- (c) cos u
- (d) cos 2u
- 13. If integer 2 bytes of storage, then what is the maximum value of unsigned integer.
  - (a)  $2^{16} 1$
- (b)  $2^{15}-1$
- (c) 2<sup>15</sup>
- (d) 2<sup>16</sup>
- 14. The given equation of the circle  $x^2 + y^2 + 2x + 2ky + 6 = 0$  &  $x^2 + y^2 + 2ky + k = 0$  intersect each other orthogonally, then find the value of k
  - (a) -2, -3/2
- (b) 2, -3/2
- (c) 2, 3/2
- (d) -2, 3/2

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- 15. If  $f(x) = x^2 + \frac{x^2}{1+x^2} + \frac{x^2}{\left(1+x^2\right)^2} + \dots + \frac{x^2}{\left(1+x^2\right)^n} + \dots$  then at x = 0
  - (a)  $\lim_{x\to 0} f(x)$  does not exists
  - (b)  $\lim_{x\to 0} f(x)$  exists but f(x) is not continuous
  - (c) f(x) is continuous
  - (d) None of these
- 16. The last term of the sequence 8, 6, 9, 23, 87, \_\_ ?
  - (a) 128

- (b) 224
- (c) 324
- (d) 429

	(a) (ab) <sup>2</sup>	(b) $(a + b)^2$	(c) $a^2 + b^2$	(d) 1
18.	The two no's are in the ra in the ratio 12 : 23, then the		rom each of the 2 no's, th	nen the new no's are
	(a) 52	(b) 33	(c) 41	(d) 27
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40	The seals of also allow of			ataba at the time to
19.	The angle of elevation of (a) 30°	(b) 60°	(c) 45°	(d) 90°
20.	If the equation $ax^2 + bx +$	c = 0 has repeated roots.	Then find the relation bety	veen coefficients.
	(a) $\left(\frac{b}{2}\right)^2 = c$	(b) $\left(\frac{b}{2}\right)^2 = ac$	(c) $\frac{a^2}{2} = bc$	(d) $\left(\frac{a}{2}\right)^2 = bc$
	OTTECTION DA DED OF	TANKA CA TANTA ANCE M	ule Susant	
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21.		of the no's on the 2 dice is		f obtaining 6 on one
	(a) $\frac{35}{36}$	(b) $\frac{5}{36}$	(c) $\frac{2}{5}$	(d) $\frac{4}{5}$
	30	30	3	
22.	The equation $x^3 + x^2 + x +$	1 when divided by x2 + x	+ 1 leaves the remainder	
	(a) x	(b) x + 1	(c) 0	(d) 1
23.	$\int_0^{\pi/2} \frac{\sqrt{\sin x}}{\sqrt{\sin x} + \sqrt{\cos x}} dx$	1		
	(a) $\frac{\pi}{2}$	(b) $\frac{\pi}{4}$	(c) π	(d) 0
	2	4	(6) 1	(d) 0
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24.	A relational database con	F-17 ( F 3000F ) NOO - 100 - 10 II II II	Ne state	
	(a) Table	(b) fields	(c) Records	(d) keys
25.	Consider the line passing	through (1, 2) & (4, 8) the	the gradient is equal to	
	(a) ½	(b) 2	(c) -1/2	(d) -2
26.	What is the full form of SC	QL		
	(a) Standard Query Lang		(b) Sequential Query L	
	(c) Structured Query Lar	nguage	(d) Server side query la	anguage
5				

17. If M =  $a \cos \theta + b \sin \theta$  and n =  $a \cos - b \sin \theta$  then find the value of  $m^2 + n^2 = ?$ 

27.	Value of $\frac{1}{2}$	TIG!			
		Cherry		-	
	(a) $\sqrt{\pi}$	(b) π	(c)	$\sqrt{\frac{\pi}{2}}$	(d) $\frac{\pi}{2}$
28.	If $\sin \theta + \cos \theta = 1$ then fi	nd the value of sin 2 $\theta$ .			
	(a) 0	(b) 1	(c)	2	(d) None
20	Matrix 1 1 2 patiefies	which of the following p	ropodio		
29.	Matrix	which of the following p	roperue		7119
	(a) orthogonal	(b) Invertible	(c)	Symmetric	(d) Singular
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30.	nth derivative of the term	sin (ax + b)			8
	(a) a sin (ax + b + $n\pi$ )		(b)	an sin (ax + b +	nπ/4)
	(c) $a^n \sin (ax + b + n\pi/2)$		(d)	an sin (ax + b +	2nπ)
31.	The sequence $\frac{(-1)^n}{n}$ is				
	(a) Divergent	(b) Convergent	(c)	Bounded	(d) Unbounded
32.	Sum of product can be im	plemented by the group	of		
	(a) OR Gate	(b) AND Gate	(c)	NOT Gate	(d) XOR Gate
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	(India's No. 1 Ins	A STATE OF THE RESERVE OF THE PARTY OF THE P	1 202	and the same of th	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
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33.	Which of the following is r	not true about zero.		/ 1	
	(a) Even		(b)	Positive	
	(c) Additive identity	7		Additive inverse	e & zero
34.	In $u = \tan\left(\frac{\pi}{4} + \frac{\theta}{2}\right)$ then fire	nd the value of $\frac{u}{2}$	tra	nce	
	(a) tan θ	(b) tan θ /2	(c)	tan θ /4	(d) tan 2 θ
35	How many different comm	nittee of 3 people in a cla	ass room	m of 10 students	2
55.	(a) 120	(b) 24	(c)		(d) 12
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36.	Eigen value of the matrix	[4 1] _1 2]
	(a) 3, 3	(b) 4, 2
	∞ dv	

37. If 
$$Y = x^{x^{-\infty}}$$
 then find  $x \frac{dy}{dx} = ?$ 

(b) 
$$\frac{Y^2}{Y \log x - 1}$$

(c) 
$$\frac{Y}{1-Y\log x}$$

(c) 1, -1

(d) 
$$\frac{Y^2}{1 + Y \log x}$$

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- 38. Father of C language is
  - (a) James Gosline

(b) B. Jame stroutup

(c) Dennis Ritchie

- (d) Dr. E.F. Codd
- 39. If a plane passes through the point (2, 3, -1) & it is right angle to OP where O is origin then find the equation of the plane which is perpendicular to OP & passes through P.

(a) 
$$2x + 3y - z = 14$$

(b) 
$$2x + 3y + z = 14$$

(c) 
$$2x - 3y - z = 14$$

(d) 
$$2x - 3y + z = 14$$

- 40. Numbers of solution in  $\begin{bmatrix} 1 & 0 & 5 \\ 0 & 1 & 6 \\ 1 & 0 & 5 \end{bmatrix} x = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$ 
  - (a) 0

(b) 1

- (c) Infinite
- (d) None of these

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- 41. Find the greatest common division of  $3^{13} \times 5^{17} \& 2^{12} \times 3^5$  is
  - (a) 3°

(b) 3<sup>1</sup>

- (c)  $3^2$
- (d) 3<sup>5</sup>

- 42. The worst case running time to quick sort is
  - (a) 0 (log n)
- (b) o (n log n)
- (c) O(n)
- (d)  $O(n^2)$

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- 43. Find the value of determinant 1 2 4 1 3 9 1 4 16
  - (a) 3

(b) 2

(c) 1

(d) 0

- 44. If 75% students in class study probability & 30% of the students study statistics & the students who study both probability & statistics is 20%, then find the probability of students who either study statics & probability is
  - (a) 75%

- (b) 85%
- (c) 95%
- (d) none

- 45. I: If enrollment of class A is higher than B
  - II: If enrollment of class C is lower than B
  - III: Enrollment of A is lower than C
  - If I and II are true then III is
  - (a) True
- (b) Uncertain
- (c) False
- (d) None of these

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nique Place for Sure Success

46. Find the letter which will come in the place of question mark?



(a) F

(b) G

(c) H

(d) I

- 47. Which is the smallest integer  $\left[\frac{1+i}{1-i}\right]^n = 1$  where  $i^2 = -1$ 
  - (a) 2

(b) 3

(c) 4

(d) 5

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- 48. Let a & b are the 2 vectors given by  $\vec{a} = 2\hat{i} 3\hat{j} \hat{k}$  &  $\vec{b} = \hat{i} + 4\hat{j} 2\hat{k}$  then the cross product  $\vec{a} \times \vec{b}$  is
  - (a)  $10\hat{i} 3\hat{j} + 11\hat{k}$

(b)  $10\hat{i} + 3\hat{j} - 11\hat{k}$ 

(c)  $10\hat{i} - 3\hat{j} - 11\hat{k}$ 

- (d)  $10\hat{i} + 3\hat{j} + 11\hat{k}$
- 49. The convergence of the following method is sensitive to the starting value is,
  - (a) False Position Method

(b) Gauss Siedal Method

(c) Newton Ralphson

- (d) All of these
- 50.  $x(x y)dy + y^2 dx = 0$ , the solution of differential equation is
  - (a)  $y = ce^{y/x}$
- (b)  $y = ce^{x/y}$
- (c)  $y = cxe^{y/x}$
- (d)  $x = cye^{y/x}$

51. Find the significant no	of digits in 204.020050		
(a) 5	(b) 6	(c) 8	(d) 9
		1000	
52. What is the last group	of the series :		
JAK KBL LCM MD	N		
(a) OPS	(b) QFN	(c) NEO	(d) PAQ
53. What is the postfix exp	pression of infix expression	n A + B * C	
(a) AB + C*	(b) ABC *+	(c) +AB*C	(d) ABC+*
		/ /	
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54. Which of the following	annlies to the hisection m	nethod which is required	for finding roots :
(a) Converging to all		ictiod willon is required	for initiality roots .
(b) Guaranteed work		I E I E I I E E	
	ewton Ralphson's Method	-	
(d) Require that there	to be a non-determination	iii position value	58
	1		2
55. If for real value of a co	$s \theta = x + \frac{1}{x}$ then		
(a) θ is acute angle		(b) θ is obtuse an	gle
(c) θ is right angle		(d) No value of θ	is possible
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56. Here some words tran		ge	
Granamelke mear			
Pinimelke means		- All III A	
Melkehoon means		/ - / - /	
Which word would me			
(a) Granahoon	(b) Pinihoon	(c) Granamelke	(d) Melkepini
57. The pointer pointing to	"NOTHING" is called		
(a) VOID Pointer	1101111110 Ib balled	(b) DANGLING P	ointer
(c) NULL Pointer		(d) WILD Pointer	omici
(c) NOLL I OILLO		(d) WILD I officer	
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Diameter Contract Con			2
58. Which of the following	join condition contains th	e equality operator	
(a) Equijoins	(b) Natural join	(c) Cartesian join	(d) Left Join

(a) No. of process	101/0 0 000 <b>3</b> / -100 0 000		
(b) No. of process	executed per unit time		
(c) No. of process	in I/O		
(d) No. of process	in memory.		
0. How many time you	write digit 3 between 1 to 10	The second secon	VALUE T
(a) 11	(b) 18	(c) 20	(d) 21
OUECTION DADI	ED OF INITIMES ENTRANC	75 2010 by 124 - Jun Min	to a Augustinia Tudono
The second secon	ER OF JNU MCA ENTRANCE Institute for All In	F. Commission of the Commissio	The second secon
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1,11,11,11,11,11,11,11,11,11,11,11,11,1			
1. If 100 cats kill 100 r	nice in 100 days then 4 cats	kill 4 mice in how many	days
(a) 10	(b) 4	(c) 40	(d) 100
	MCAE	itrance	
2. x = 101100, y = 100	00011, then find $x - y$ using 2	2's complement	
(a) 1010001	(b) 1100101	(c) 100110	(d) 10001
	midue Place in	BUIL DUCCE	
	s 7 rs. & cost of watermelon	is 5 rs. & X spent 38 rs	s on these fruits, then
many pineapples w	ere bought by X ?		
(a) 2		(b) 3	
(c) 4  OUESTION PAPE (India's No. 1	ER OF JNU MCA ENTRANC	(d) Data inadequ E 2018 by Jitendra Misl ndia MCA Entr	hra Academy, Indore ance Training)
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(c) 4  QUESTION PAPE (India's No. 1  JMA HOUSE - 7, CHAN  4. (256) <sup>0.16</sup> × (256) <sup>0.09</sup> (a) 4  5. Find the focus of the (a) (2, 8/11)	(b) 16 e parabola y = -2 (x + 4) <sup>2</sup> - 1 (b) (-2, -8/11)	(d) Data inadeque E 2018 by Jitendra Missandia MCA Entrus. P.) Ph.: 0731 - 4236844 Vis	hra Academy, Indore ance Training) sit us: www.imaindore.com
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59. The degree of Multiprogramming is

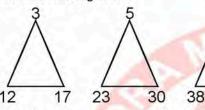
	a) Overflow	(b) Carry	(c) Output	(d) Zero
0. If	element ABCD are in	serted into the stack t	hen what the sequence to	o removal.
	a) ABCD	(b) DCBA	(c) DCAB	(d) ACBD
1. C	choose the odd one or	ut		
(8	a) Lotus	(b) Rose	(c) Bud	(d) Tulip
		/		
(1			NCE 2018 by Jitendra Mi	
_	The second second second	A	India MCA Ent: (M.P.) Ph.: 0731 - 4236844 V	
JM	IA HOUSE - 7, CHANDR	ALOK COLONT, INDOKE	(M.F.) Fil.: 0731 - 4230844. V	isit us : www.jmaindore.com
Г	1 1	1		
2.	$\frac{1}{\log_4 120} + \frac{1}{\log_5 120$	og. 120 +		
	a) 0	(b) 1	(c) 5	(d) 120
(0	a) 0	(D) 1	(c) 5	(d) 120
2 16	O he the engle between	on a and hithan what	is the value of sin 0/2 2	
		HULL TO STATE OF THE PARTY OF T	is the value of $\sin \theta/2$ ?	1Co
(8	a) $\frac{1}{2}  \vec{a} - \vec{b} $	(b) $\frac{1}{2}  \vec{a} + \vec{b} $	(c)   a + b	(d)   <b>a</b> – <b>b</b>
	2	2		
4 1	et R be a relation on l	N = 11 2 3 \ defin	ned by R = {(x v) : x + 2v	= 10} x ∈ N and y ∈ N the
re	elation R is	11, 2, 0, doi:	(A, y) . A · 2y	Toj x e iv ana y e iv inc
(8	a) Reflexive	(b) Symmetric	(c) Antisymmet	ric (d) Transitive
	OTTESTION DADED	OT TATEL A COA TONICE A		olima A andamir Indama
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	India's No. 1 I	nstitute for All	India MCA Ent	rance Training)
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55. V N (4 (4 (4 (4) (4) (4) (7)	Undia's No. 1 India's No. 1 India's No. 1 India's No. 1 India House - 7, Chandra What is the next successed of the successed	cessive value of x <sub>1</sub> for thod (b) 1,5 dary memory ion vel language kept in memory	India MCA Ent (M.P.) Ph.: 0731 - 4236844 v  r the function f(x) = x <sup>2</sup> -  (c) 2	rance Training) isit us: www.imaindore.com  - 2 where x <sub>0</sub> = 1, by usin  (d) 2.5
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IM  (a)  (a)  (b)  (c)  (c)  (d)  (d)  (d)  (d)  (d)	Undia's No. 1 India's No. 1 India's No. 1 India's No. 1 India House - 7, Chandra What is the next successed of the successed	cessive value of x <sub>1</sub> for thod (b) 1,5 dary memory ion vel language kept in memory	India MCA Ent (M.P.) Ph.: 0731 - 4236844 v  r the function f(x) = x <sup>2</sup> -  (c) 2	rance Training) isit us: www.imaindore.com  - 2 where x <sub>0</sub> = 1, by usin  (d) 2.5
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1M 55. W (a (a (b) (c) (c) (c) (c) (a (c) (c) (d)	Undia's No. 1 India's No. 1 India's No. 1 India's No. 1 India House - 7, Chandra Vhat is the next successed of the second of the	cessive value of x <sub>1</sub> for thod (b) 1,5  dary memory ion vel language kept in nemory  n empty sets having 5 B × A is (b) 5 <sup>2</sup> OF JNU MCA ENTRA	India MCA Ent (M.P.) Ph.: 0731 - 4236844 v  r the function f(x) = x² -  (c) 2  nemory disk  elements in common, the (c) 10	rance Training) isit us: www.imaindore.com  - 2 where x <sub>0</sub> = 1, by using (d) 2.5  en the number of element (d) 9  shra Academy, Indore

69. The most significant bit with arithmetic addition is called

78. Consider a university	al set U = {1, 2, 3, 4, 5	s) & set A = {1,	5} & set B = {1,	2, 3, 4}. Then set A U
(a) {1, 2, 3, 4, 5}	(b) {1, 3, 5}	(c)	{2, 3, 4}	(d) {1, 5}
79. If has been establis	shed that			
P: Einstein was	CB A			
Q: Although a gre	at scientist			
R: Weak in arithm	ietic	1 /5		
S: Right from his	school days	Way / III '		
The correct sequen	ce is		-//	111
(a) SRPQ	(b) QPRS	(c)	QPSR	(d) RPQS
<b>QUESTION PAPI</b>	ER OF JNU MCA ENT	RANCE 2018 b	y Jitendra Mishr	a Academy, Indore
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	問題は大きを		ince	
80. Runtime mapping f	rom virtual to physical	memory is don	e by:	
(a) Memory Manag	gement	(b)	CPU	
(C) PCI	Ininue Place	(d)	None	
	JIII		- 43	5
81. Match the pair :				
(A) Newton Raphs	on	(1)	Integration	-
(B) Runge's Kutta		(2)	기계 없는 무슨 기술이 되었다.	ation
(C) Gauss Seidal			For finding root	
(D) Simpson Rule			Solution of line	
Which of the follow	ing is correct :	(, )		
(a) A B C D	(b) ABCD	(c)	ABCD	(d) ABCD
2 3 4 1	3 4 1 2		4 1 2 3	1 2 3 4
2 0 4 1	0 1 1 2		7 1 2 3	1204
QUESTION PAPI	ER OF JNU MCA ENT	RANCE 2018 b	y Jitendra Mishr	a Academy, Indore
	Institute for A			
The state of the s	NDRALOK COLONY, INDO		A CONTRACTOR	AND DESCRIPTION OF THE PERSON
	4 /	W / /	A A	
82. Find the missing let	tters:	W / III	/ W	
			1.30	
	53	1	49	
	82	X	37	
	36	L	15	
	14	?	98	
(a) B	(b) C	(c)	ECC	(d) D
OHESTION PADI	ER OF JNU MCA ENT	RANCE 2018 1	v litendra Miche	a Academy Indore
	I Institute for A	TO - 7-1 - 7-2	And a second sec	The state of the s
	NORALOK COLONY, INDO	The same of the sa	The second secon	
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83. Find the missing term:

(a) 45



84. Given operation p ⊗ q shows

p	q/	p⊗q
T	T	T
T_	F	· E
F	T	F
F	F	F

- (a) conjunction
- (b) disjunction
- (c) Negation
- (d) Injection

(d) 44

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85. If  $x = r \cos \theta$  and  $y = r \sin \theta$  then find the value of  $\left(\frac{\partial r}{\partial x}\right)^2 + \left(\frac{\partial r}{\partial y}\right)^2$ 

(b) 46

(a) 0

(b) 1

(c) 2

- (d) 3
- 86. In a binary search tree which of the following traversal would print the list in ascending order
  - (a) Level order traversal

(b) Pre order traversal

(c) Post order traversal

(d) In order traversal

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- 87. The curved surface area of hemisphere is 175 cm<sup>2</sup>. What is the radius of the hemisphere
  - (a) 3.25
- (b) 3.48
- (c) 3.38
- (d) 5.28

- 88. Choose the appropriate deadlock avoidance algorithm
  - (a) Round Robin Algorithm

(b) Bankers algorithm

(c) Elevator algorithm

(d) Karn's Algorithm

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(a)	$\frac{3}{7}\hat{\mathbf{i}} - \frac{2}{7}\hat{\mathbf{j}} + \frac{6}{7}\hat{\mathbf{k}}$	MIS!	(b) $\frac{3}{7}\hat{i} + \frac{2}{7}\hat{j} + \frac{5}{7}\hat{k}$	
(c)	$\frac{3}{7}\hat{i} - \frac{4}{7}\hat{j} + \frac{6}{7}\hat{k}$	D. William	(d) $-\frac{3}{7}\hat{i} - \frac{4}{7}\hat{j} - \frac{6}{7}\hat{k}$	
90. The	e word "break" is not u	sed in		
	If else	(b) do while	(c) for	(d) while
	MIECTION DA DED OE	INII MCA ENTRANCE	E 2018 by Jitendra Mishra	Anadamy Indone
200		THE RESERVE AND ADDRESS OF THE PERSON AND AD	dia MCA Entran	
			.) Ph.: 0731 - 4236844 Visit us	
		piped are the vectors i	$\hat{i} + \hat{j} - \hat{k}$ , $2\hat{i} + 3\hat{j}$ , $\hat{i} - 3\hat{k}$ then	hen what is volume of
par (a)	rallelopiped	(b) 4	(c) 8	(d) 6
(a)				(d) 0
92. Wh	nich of the following co	mmutative	Sure Succession	
	Subtraction of real nu	imber	- Cart 1 62 2	
	Division of +ve numb			
(c)	Multiplication of n × r Addition of n × m ma			
(4)	Addition of the fitting			
93. Ho	w many digits are used	l in numbering a book o	f 366 pages ?	
(a)	1093	(b) 90	(c) 990	(d) 1305
0	OUESTION PAPER OF	JNU MCA ENTRANCE	E 2018 by Jitendra Mishra	Academy, Indore
		AND DESCRIPTION OF THE PROPERTY OF THE PARTY	dia MCA Entran	
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94 Wh	nat is the minimum of 2	input NAND Gate is use	ed to perform the function	of 2 input OR Gate ?
		(b) two		(d) four
		one filed is used to stor	re the date, for what the so	
	Pointer of character		(b) Pointer to integer	
(C)	Pointer to Node		(d) Node	
_			E 2018 by Jitendra Mishra	
		ELECTRICAL SECTION CO., TOUR SERVICE CONTRACT CO. (1)	dia MCA Entran	
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	e surface area of the s	olid generated by revolu	ution of $x^2 + (y - b)^2 = a^2$ ,	b ≥ a rotated about x-
(a)	π²ab	(b) 2π <sup>2</sup> ab	(c) 3π <sup>2</sup> ab	(d) 4π²ab

89. A unit vector perpendicular to the plane of  $2\hat{i} - 6\hat{j} - 3\hat{k} & 4\hat{i} + 3\hat{j} - \hat{k}$  is

97. Time quantum is us	ed in		
(a) Shortest Job fir	rst	(b) Round Robin	Scheduling
(c) Priority Schedu	iled	(d) None	
98. Find the value of so	alar m, if vector 2î + mĵ + l	k̂ & 4î – 2ĵ – 2k̂ are perpe	endicular
(a) 2	(b) 1	(c) 3	(d) 5
QUESTION PAPE	ER OF JNU MCA ENTRA	NCE 2018 by Jitendra Misl	hra Academy, Indore
(India's No. 1	Institute for All	India MCA Entr	ance Training)
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99. Which one of the fo	llowing is not a reserved k	ey for C ?	5
(a) Auto	(b) Case	(c) Main	(d) Default
100.What arrangement	can be made in 3 identica	l blue balls & 2 identical gr	reen balls in a straight line
(a) 120	(b) 24	(c) 20	(d) 10
	The state of	and Control of	
	Inique Place f	or bure Succe	00
	111197		00