Paper Code No- BM54/2 School McA > dclh uni (Jui)
Question Booklet No: 654012

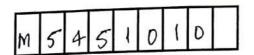
Handay ENTRANCE EXAMINATION-2018

MASTER OF COMPUTER APPLICATION (M.C.A)

SET B

0 5-06-

ROLL NO.



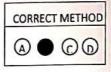
Signature of Invigilator

Total Marks: 100

Time: 1 HOUR 45 MINUTES

Instructions to Candidates

- Do not write your name or put any other mark of identification anywhere in the OMR Response Sheet. IF ANY MARK OF IDENTIFICATIONS IS DISCOVERED ANYWHERE IN OMR RESPONSE SHEET, the OMR sheet will be cancelled, and will not be evaluated.
- 2. This Question Booklet contains the cover page and a total of 100 Multiple Choice Questions of 1mark each.
- 3. Space for rough work has been provided at the beginning and end. Available space on each page may also be used for rough
- 4. There is negative marking in Multiple Choice Questions. For each wrong answer, 0.25 marks will be deducted.
- 5. USE OF CALCULATOR IS NOT PERMITTED.
- 6. USE/POSSESSION OF ELECTRONIC GADGETS LIKE MOBILE PHONE, iPhone, iPad, pager ETC. are strictly **PROHIBITED**.
- 7. Candidate should check the serial order of questions at the beginning of the test. If any question is found missing in the serial order, it should be immediately brought to the notice of the Invigilator. No pages should be torn out from this question booklet.
- 8. Answers must be marked in the OMR response sheet which is provided separately. OMR Response sheet must be handed over to the invigilator before you leave the seat.
- The OMR response sheet should not be folded or wrinkled. The folded or wrinkled OMR/response Sheet will not be evaluated.
- 10. Write your Roll Number in the appropriate space (above) and on the OMR Response Sheet. Any other details, if asked for, should be written only in the space provided.
- 11. There are four options to each question marked A, B, C and D. Select one of the most appropriate option and fill up the corresponding oval/circle in the OMR Response Sheet provided to you. The correct procedure for filling up the OMR Response Sheet is mentioned below.
- 12. Use Black or Blue Ball Pen only for filling the ovals/circles in OMR Response Sheet. Darken the selected oval/circle completely. If the correct answer is 'B', the corresponding oval/circle should be completely filled and darkened as shown below...



WRONG METHOD							
@ X 00	@ % ©®	(A (D) (C) (D)	A • C 6	$\bigcirc \bullet$	@		©

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B 128w C. 128w ² D 128w ²
 2. The complex numbers (sin x + i cos 2x) and (cos x - i sin 2x) are conjugate to each other, for A. x = nπ B. x = 0 C. x = (n + 1/2)π D. No value of x
 3. The point's z1, z2, z3, z4 in the complex plane are the vertices of a parallelogram taken in order, if and only if A. z1 + z4 = z2 + z3 B. z1 + z3 = z2 + z4 C. z1 + z2 = z3 + z4 D. None of these
 4. Linear programming model which involves funds allocation of limited investment is classified as A. ordination budgeting model B. capital budgeting models C. funds investment models D. funds origin models
 5. According to system of constraints, solution set graphical representation is classified as A. region of ordinate solutions B. region of intercept solutions C. region of vertex solutions D. region of feasible solutions
 6. Points within set are connected by line segment must follow condition that points must be A. included in set B. not included in set C. included in function D. included in objective
7. In mathematical programming, goals represented by objective functions include. A. profit level B. total cost and revenue C. percent rate on investment D. all of above
8. Coordinates of midpoint of line joining two points (16, 4) and (36, 6) are: A. (26, 5) B. (5, 26) C. (10, 1) D. (1, 10
9 In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women? A. 63 B. 90 C. 126 D. None MCA Entrance Test $ \begin{array}{cccccccccccccccccccccccccccccccccc$
Z. T.

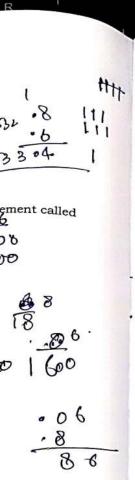
1. If w is an imaginary cube root of unity, then $(1 + w - w^2)^7$ is equal to

A. 128w

16. For individual observations, reciprocal of arithmetic mean is called
A. geometric mean B. harmonic mean C. deviation square mean D. paired mean
-11. A.P whose nth term is 2n-1 is A. 1,3,6, B. 2,3,5, C. 1,3,5, D. 5,3,1,
 12. The equation of the straight line passing through the point (3, 2) and perpendicular to the line y=x is A. X-Y=5 B. X+Y=5 C. X+Y=1 D. X-Y=1
 13. Specifying a straight line, how many geometrical parameters should be known? A. 1 B. 2 C. 3 D. 4
14. A point equidistant from the lines 4x+3y+10=0, 5x-12y+26=0 and 7x+24y-50=0 is A. (1,-1) B. (1,1) C. (0,0) D. (0,1)
15. One vertex of the equilateral triangle with centroid at origin and one side as $x + y - 2 = 0$ is A. $(-1,-1)$ B. $(2,2)$ C. $(-2,-2)$ D. $(2,-2)$
 16. Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs.73. What are the fares for cities B and C from A? A. Rs. 17, Rs. 13 B. Rs. 4, Rs. 23 C. Rs. 13, Rs. 17 D. Rs. 15, Rs. 14
 17. In the group G = {2, 4, 6, 8} under multiplication modulo 10, the identity element is A. 6 B. 8 C. 4 D. 2
 A partition of {1, 2, 3, 4, 5} is the family A. {(1, 2),(3, 4),(3, 5)} B. {φ(1, 2),(3, 4),(5)} C. {(1, 2, 3),(5)} D. {(1, 2,), (3, 4, 5)}.
2018

19. Let P(S) denote the power set of set S. Which of the following is always TRUE? A. P(P(S)) = P(S)B. $P(S) \cap S = P(S)$ C. $P(S) \cap P(P(S)) = [\phi]$ D. S ∉ P(S) 20. Find the remainder when 6799 is divided by 7. B. 6 C. 1 ndicular to the D. 2 21. G (e, a, b, c) is an abelian group with 'e' as identity element. The order of the other elements A. 2,2,3 B. 3,3,3 C. 2,2,4 D. 2,3,4 m? 22. Period of 3sec x/3 is Α. π B. 2n C. 3n D. 6n =0 is 23. The principal value of cos-1 (cos 5) is A. 5 B. $\pi - 5$ $C. 5 - \pi$ D. $2\pi - 5$ x + y - 2 = 0 is 24. If $\sin t = 1/5$ and $0 < t < \pi / 2$, then $\cos (4 t) = ?$ A. 0.3464 B. 0.8 C. 0.6928 D. - 0.6928 s. 77 but three 25. Find the value of $\int_{\Delta}^{1/4x^2+4x+5} dx$ re the fares for A. $\frac{1}{8} \sin^{(-1)} (x + \frac{1}{2})$ B. $\frac{1}{4} \tan^{(-1)} (x + \frac{1}{2})$ C. $\frac{1}{8} \sec^{(-1)} (x + \frac{1}{2})$ Q6. A computer-controlled device for training exercises that duplicates the work environment is ient is a: A. Simulator B. Duplicator C. Trainer 27. Multi user systems provided cost savings for small business because they use a single processing unit to link several A. Personal computers B. Workstations C. Dumb terminals D. Mainframes 2018 MCA Entrance Test

` А. В.	Control unit	ulating and compa	ring?		
	ALU Modem		.8	, , 8	ul.
A. B. C. D.	hich of the following memories need refres SRAM DRAM ROM All of the above	US	180	533.4	
B. C. D.	Hard disks Magnetic disk	<u>B</u> .	100	boo 600	led
B. C.	ne representation of decimal number 532.8 532.65 532.68 531.67 531.68	36 in the form of d	ecimal is	(v [8] v)	96·
A. B. C.	The quantity of double word is 8 bits 16 bits 32 bits 64 bits	7B = 16 Rile	8 × 4'	(o 16	06
A. B. C.	Thich protocol provides e-mail facility amon FTP SMTP TELNET SNMP	ng different hosts?		<u>.</u>	8 8
A. B C	COBOL is an acronym for Common Basic Oriented Language Common Oriented Business Language Common Business Oriented Language None				-
A B C	Which of the following are real time system: an on-line real reservation system a process control system Aircraft control system Payroll processing system 	s?			
B C	Which one of the following input device is u Dumb terminal Smart terminal VDT Intelligent terminal	iser-programmable	?		



- 37. A name or number used to identify a storage location is called
- A. A byte
 - B. A record
 - C. An address
 - D. All of above
- 38. Full form of URL is?
 - A. Uniform Resource Locator
 - B. Uniform Resource Link
 - C. Uniform Registered Link
 - D. Unified Resource Link
- 20. Second generation of computers consist of which of following?
 - A. Vacuum Tubes
 - B. Diodes
 - C. VLSI Microprocessor
 - D. Transistors
- 40. MPG is an extension of which type of files?
 - A. Audio
 - B. Image
 - C. Video
 - D. Flash
- 41. Which is odd one?
 - A. Inkjet Printers
 - B. CRT
 - C. Laser Printers
 - D. Dot Matrix Printer
- A2. Which type of switching is used in Internet?
 - A. Packet
 - B. Telephone
 - C. Circuit
 - D. Telex
- 43. What is the meaning of OSI, in terms of computers?
 - A. Open Software Interrelation
 - B. Open System Interrelation
 - C. Open Software Interconnection
 - D. Open System Interconnection
- 44. What is meaning of EEPROM?
 - A. Electronically Erasable Programmable Read only Memory
 - B. Electrically Erasable Programmable Read only Memory
 - C. Electronically Erasable Programmable Reach only Memory
 - D. Electrically Erasable Practical Reach only Memory
- 45. Which among following is responsible for finding and loading operating system into RAM?
 - A. Bootstrap Loader
 - B. CMOS
 - C. BIOS
 - D. DMOS

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A B C	hree persons A, B and C are standing in a queue. There are five person and eight persons between B and C. If there be three persons ahea persons behind A, what could be the minimum number of persons 40 27 41 28	
A. B. C.	class of boys stands in a single line; one boy is 19th in order from to many boys are there in the class? 39 37 27	ooth the ends, How 18 18 36 39
A. B.	8 9	positions of only the
A.	8 6	
A. B. C.	Q, R, S, T, U, V and W are sitting round the circle and are facing the P is second to the right of T who is the neighbour of R and V. S is not the neighbour of P. V is the neighbour of U. Q is not between S and W. W is not between U and S. Then who is sitting opposite to U? Q R P	e centre:
A. B. C.	shepherd had 27 sheep. All but 10 died. How many he left with? 17 27 10 Zero	
A. B. C.	is three times as old as B. C.was twice-as old as A four years ago. In will be 31. What are the present ages of B and C 9, 50 9, 46 10, 46 10, 50	n four years' time, A

53. In a group of 15 people, 7 read French, 8 read English while 3 of t	hem read none of
these two. How many of them read French and English both A. 15	4.5
В. 12	
C. 18 D. 20	
54. Find the least number which leaves a remainder of 3 when divide leaves no remainder when divided by 9? A. 1458	
B. 1683 C. 1692 D. 1598	7+18 = 4 0B
55. Find out the wrong number in the given sequence of numbers. 22, 33, 66, 99, 121, 279, 594	g 10,10
A. 33 B. 121	
C. 279	
D. 594	
56. Find out the wrong number in the given sequence of numbers. 6, 13, 18, 25, 30, 37, 40	
A. 37	
B. 30 C. 40	
D. 25	
57. Insert the missing number 8, 7, 11, 12, 14, 17, 17, 22, ()	*
A. 24	
B. 27 C. 20	
D. 22 16 33 65	
58. Insert the missing number 30 +1 66 1 65	131
16, 33, 65, 131, 261, () A. 523 H -1	131 621
B. 613 33 65	261 261
C. 521 D. 721 33 130 131	261
59. If COMPLETED is coded as MOCELPDET, then DIRECTION will be	e coded as: 522
B SIDTCENOI - A C A D C T	2003
C. RIDTCENOI D. RIETCENOI	id -
60. In a coded language COMPUTER is written as RETUPMOC. How	is MACHINE written in the
same code	· chtrolon
A. DHFTCHS B. HGTIRDM	87 DITE 120
C. ENIHCAM	, /
D. HGRMSCH	2018
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61. If COOL is coded as DQRP, then write the code for HOT 67. Synonym A. JQW A. Decline B. IQW C. IQX D. IPW -62. Pointing to a girl in photograph. Amar said, "Her mother's brother is the only son of my 68. A remedy mother's father." How the girl's mother related to Amar? A. Mother B. Sister C. Aunt D. Grandmother 69. The mis 63. A is the son of B. C, B's sister has a son D and a daughter E. F is the maternal uncle of D. How is E related to F? A. Sister B. Mother C. Cousin D. Niece 70. Find th -64? The question given below has a set of three or four statements. Each set of statements is further divided into three segments. Choose the alternative where the third segment in the statement can be logically deduced using both the preceding two, but not just from one of them. Statement - I. All papers are books II. All bags are books III. Some purses are bags Conclusion - I. Some papers are bags II. Some books are papers III. Some books are purses A. Only I follows B. Only II follows C. Only I and II follows D. Both II and III follow 65. Study the information given below carefully, and answer the question that follow: On a stage, D, N, A and P are standing as described below facing North. 1) N is 2.5 m to the west of A. 2) K is 4 m to the right of A. 3) D is 6 m to the south of K. 4) P is 9 m to the north of D. If a boy walks from N, meets A followed by K, D and then P, how many metres has he walked if he has travelled the straight distance all through? A. 15 m B. 18 m

A. T B. E

74. Wha

B. Acquir

C. Excite

D. Irritate

A. Medic

B. Panad

C. Medic

D. Medic

A. Misd

B. Anac

C. Misp

D. Prole

A. Des

B. Cla

C. Co:

D. Sa

A. Ins

B. Ar C. Er D. So

72. Choc

A. He B. He

C. He

D. He

B. D

C. A

D.F

73. Which A. W

71. Find t

C. N D. S

45. Fill

 $\mathcal{O}_{\!\scriptscriptstyle{A}.}$ B.

C.

D.

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66. Synonym of ACQUAINT

C. 21.5 m

D. 22.5 m

A. Withhold B. Conceal C. Familiarise D. Risky

1 2 3
pa dh potos
Synonym of AGGDAY
67. Synonym of AGGRAVATE A. Decline
B. Acquire
C. Excited
D. Irritate
68. A remedy for all disease is
A. Medicine
B. Panacea
C. Medical
D. Medica
69. The mistake of placing something in the wrong period of time:
A. Misdate Wrong period of time:
B. Anachronism
C. Misplacement D. Prolepsis
70. Find the most opposite meaning of SUBVERSION A. Destabilisation
B. Clarity
C. Compliance D. Sanity
V (1.0000000 €)
71. Find the word just opposite of PROVOKE
n. moult
B. Anger C. Encourage
D. Soothe
72. Choose the grammatically correct sentence out of the given options
B. He parked an car in front of the bakery.
C. He park the car in front of the hakery
D. He parked car in front of the bakery.
73. Which word of the following means 'extremely or unusually small'?
A. webbed
B. Diminutive C. Awkward
D. Farthest
*
74. What is the meaning of the word 'gait'?
A. Threshold B. Entrance
C. Manner of walking
D. Speed
75. Fill in the blank with the correct prepositions. We will be staying Kolkata next
O Saturday.
A. on, from
B. for, from C. by, by
D. in, till
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76. A box has 5 black and 3 green shirts. One shirt is picked randomly and put in another box.
     The second box has 3 black and 5 green shirts. Now a shirt is picked from second box. What
     is the probability of it being a black shirt?
    A. 4/9
    B. 29/72
    C. 8/72
    D. 3/16
47. What is the probability of getting a sum 9 from two throws of dice?
    B. 1/9
    C. 1/12
    D. 2/9
78. The predicted rate of response of the dependent variable to changes in the independent
       variable is called:
    A. Slope
   B. Intercept
    C. Error
   D. Regression equation
79. If the value of any regression coefficient is zero, then two variables are:

    A. Qualitative

    B. Correlation
    C. Dependent
    D. Independent
80. If mean is 11 and median is 13 then value of mode is
   A. 15
   B. 13
    C. 11
   D. 17
84. Which term of the A.P. 92, 88, 84, 80, ... is 0?
    A. 22
    B. 23
    C. 24
    D. 32
82. (1) + (1 + 1) + (1 + 1 + 1) + ... + (1 + 1 + 1 + ... n-1 times) = ?
    A. n(n+1)/2
    B. (n-1)n/2
    C. n<sup>2</sup>
    D. n
 83. If roots of x^2 - 5x + a = 0 are equal, then a = ?
    A. 25/5
    B. ±25/4
     C. 25/4
    D. None of Above
                                  lt_{(x,y,z)\to(-2,-2,-2)}
 84. Given that limit exists find
      A. 1
      B. 3/5
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C. 1/2 D. 0

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85. Two m

f(x, y)

They m

observe

is decided A. The B. The B.

C. T

D. N

B. :

C.

D.

A.

B.

C.

D.

В.

C

D

89. F

90.

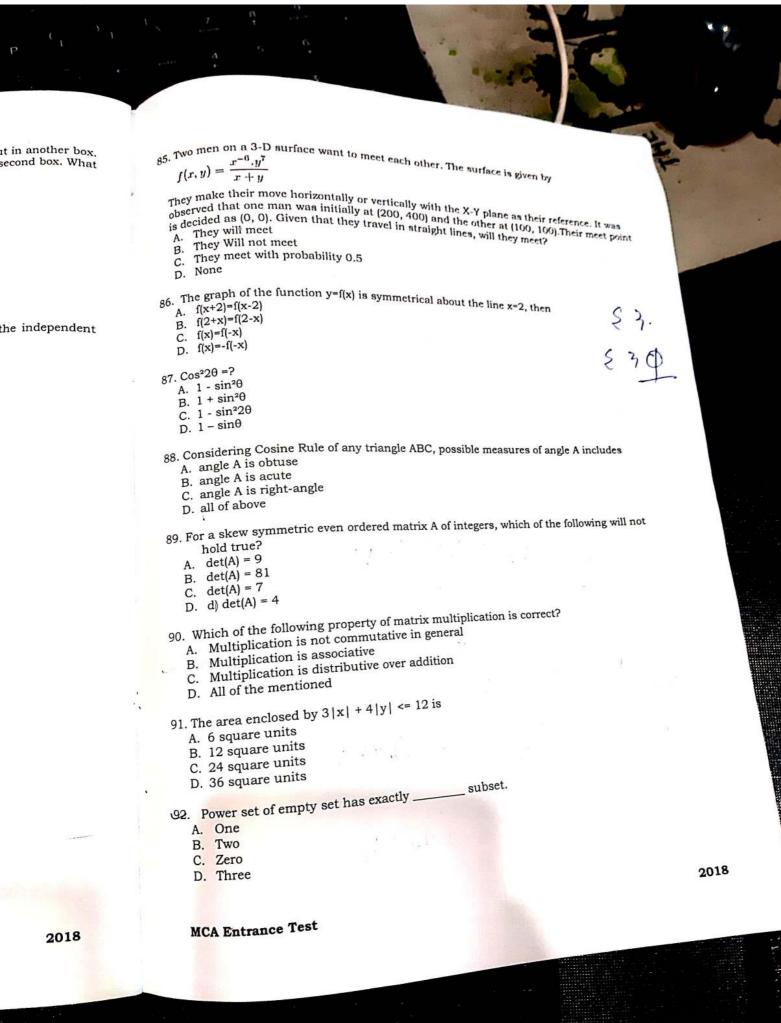
91

9

88. Co A.

87. Co:

86. The



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 Transpose of a column matrix is

                 A. zero matrix
                B. diagonal matrix
                C. column matrix
            94. Constant zero solution of linear ordinary differential equation is called
               A. trivial equation
              B. bypass equation
              C. logical equation
              D. singular equation
          95. Dot product of two vectors a and b is termed as
             A. outer product
             B. inner product
            C. Cartesian product
            D. vector product
        96. If f(x) = \max\{x, x^3\}, then the number of points where f(x) is not differentiable, are
           B. 2
           C. 3
          D. 4
       97. If y=a \log |x| + bx^2 + x has its extreme values at x=-1 and x=2, then
         A. a = 2, b = -1
         B. a = 2, b = -1/2
         C. a = -1/2, b = \frac{1}{2}
         D. None
     98. If A and B are coefficient of x^n in the expressions of (1+x)^{2n} and (1+x)^{2n-1} respectively, then
           A/B equals
       A. 1
       B. 2
       C. 1/2
      D. 1/n
       What is the Cardinality of the Power set of the set {0, 1, 2}.
     A. 8
     B. 6
     C. 7
     D. 9
HO. Consider a line passing through (1, 2) and (4, 8), gradient of this line is equal to:
    A. 1/2
    B. -1/2
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C. 2 D. -2



ASPIRE STUDY

MCA ENTRANCE CLASSES By Shivam Gupta

JAMIA MILLIA ISLAMIA- 2016

	I O II O I O I O
	AL PAPER ATOW !
1. $\lim_{x \to \frac{\pi}{4}} \frac{\sin x - \cos x}{x - \frac{\pi}{4}}$ is equal to	(a) 1 (b) ∞ (c) 0 (d) 1/3
(a) 1 (b) 2 (c) $-\sqrt{2}$ (d) $\sqrt{2}$	14. If $\cos \theta + \cos^3 \theta = \sin^2 \theta$, then $\sin^6 \theta - 4 \sin^4 \theta + 8 \sin^2 \theta$ is equal to
$2 \lim_{h \to 0} \frac{\sqrt{x+h} - \sqrt{x}}{h} \text{ is equal to } \dots$	(a) 2 (b) 3 (c) 4 (d) 1
(a) \sqrt{x} (b) $\frac{1}{\sqrt{x}}$ (c) $2\sqrt{x}$ (d) $\frac{1}{2\sqrt{x}}$	15. If $\cos^2 \theta + \sec^2 \theta = a$, then (a) $a < 1$ (b) $a = 1$
3. If $\lim_{x\to a} \frac{a^x - x^a}{x^x - a^a} = -1$, then 'a' is equal to	(c) $2 > a > 1$ (d) $a \ge 2$
(a) 0 (b) 1 (c) ∞ (d) -1	16. The amplitude of $\frac{1+i\sqrt{3}}{\sqrt{3}+1}$ is equal to
$\lim_{x \to a} \frac{x^{10} - a^{10}}{x^2 - a^2} \text{ is equal to } \dots$	(a) $\frac{\pi}{3}$ (b) $\frac{\pi}{2}$ (c) $\frac{\pi}{6}$ (d) π 17. If z be a complex number and \bar{z} be its conjugate, then
(a) $10a^9$ (b) $5a^9$	the number of solutions of the equation $z^2 + 2\bar{z} = 0$ is
$(a) 5a^8$ (d) $10a^8$	(a) 1. (b) 2 (c) 3 (d) 4
5. $\lim_{x \to 1} \frac{x + x^2 + \dots + x^{10} - 10}{5x - 5}$ is equal to	18. If z be a complex number, then one of the solution of
(a) 55 (b) 11 (c) 10 (d) 2	the equation $z^2 + z ^2 = 0$ is
1 1 1 log x dx is equal to P. w.t. 1 + log x -t	(a) $2+3i$ (b) $3+2i$ (c) $4i$ d) $3-4i$
$(a)^{\frac{1}{2}}(1 + \log x)^2$ $(b)^{\frac{1}{2}}(\log x)^2$	$(1+\omega-\omega^2)(1-\omega+\omega^2)$ is
(c) $(1 + \log x)^2$ Now find $(d) (\log x)^2$ 7. If $x > 0$, then $\int x ^3 dx$ is equal to	(a) 1 (b) 2 (c) 3 $(a)^4$
7. If $x > 0$, then $\int x ^3 dx$ is equal to	20. Let cube root of unity are $1, \omega, \omega^2$. Which of the
$(a) - \frac{x^4}{4} \int [N]^2 = \int N^3 - (b) \frac{x^4}{4}$	following is a cube root of equation $(x-1)^3 + 8 = 0$? (a) 1 (b) $(1-\omega)$
$(c)\frac{ x ^4}{ x ^4}$	(c) -1 (d) $(1-2\omega^2)$
8. If $\int_0^{\pi/4} \sec^2 x \sin x dx = a + \sqrt{2}$, then 'a' is equal to	21. If m^{th} term of an A.P. is n and its n^{th} term is m , then
	its 10 th term is
	(b) $m - n - 10$
9. $\int_0^1 \frac{x}{(1-x)^{1/2}} dx$ is equal to	(c) $n - m - 10$ (d) $m + n + 10$
(a) $1/3$ (b) $-1/3$ $\vee \psi$	22. Let sum of nterms of an A.P. is $3n^2 + 5$. If T_n of this
(a) $1/3$ (b) $-1/3$ (c) $-3/4$ (d) $-4/3$ $5m$ (m^2)	series is 159, then n is equal to
10 \(\sqrt{x}e^{\forall x}\) dx is equal to	(a) 12 (b) 2 (d) 36
(a) $(2x - 4\sqrt{x} + 4)e^{\sqrt{x}}$ (b) $(2x^2 - 4x + 4)e^{\sqrt{x}}$	23. If the roots of the equation $x^3 - 9x^2 + 23x - 15 = 0$
(c) $(2x-4)e^{\sqrt{x}}$ (d) $(2x^2-4)e^{\sqrt{x}}$	are in A.P., then their common difference will be
The value of $2 \sin^2 \theta \cos^2 \theta (\sec^2 \theta + \csc^2 \theta)$ is	(a) ± 1 (b) ± 2 (c) ± 4 (d) ± 3
	24. If $\log_2(5.2^x + 1)$, $\log_4(2^{1-x} + 1)$, and 1 are in A.P., then x will be equal to
(a) 1 (b) 2 (c) 4 (d) 0 2. If $\cos \theta + \sec \theta = 3$, then $\cos^2 \theta + \sec^2 \theta$ is	AND THE RESIDENCE OF THE PARTY
(a) 5 (b) 6 (c) 4 (d) $\sqrt{7}$	(a) $\log_2 5$ (b) $1 + \log_2 5$ (c) $1 - \log_5 2$ (d) $1 - \log_2 5$
13. The value of $\tan 1^{\circ}$. $\tan 2^{\circ}$. $\tan 3^{\circ}$ $\tan 89^{\circ}$ is	(a) 1 - 1062 5
200	

Add: Lakhanpur (Nr. Petrol Pump), Gurdev, Kanpur

Lilly

STRE STREET

ASPIRE STUD

MCA ENTRANCE CLASSES By Shivam Gupta

25 If hum of a town of	\$ M.8.	op "ia	
25. If sum of n terms of a series is $3n^2 + 4n$, then the series is $3n^2 + 4n$, then the	e 39. If $y = x + e^x$, then is		
(a) A.P. (b) G.P. (c) H.P. (d) A.G.P.		$(b)\frac{1}{(1+e^x)^2}$	
26. If ${}^{8}C_{r} - {}^{7}C_{3} = {}^{7}C_{2}$, then r is equal to	$(c)\frac{1}{(1+e^x)}$	$(d) - \frac{1}{(1+ex)}$	
(a) 4 (b) 5 (c) 6 (d) 7		(1+ex)	٤
27. The number of arrangement of the letters of the	40. If $y = (x^x)^x$, then $\frac{dy}{dx}$ is equal t	0	
In which two N's do not appear adjacently	$\sqrt{(a)} xy + 2xy \log x$	(b) $xy + xy \log_x$	_
13		$(d) y + 2xy \log x$	2
(a) 40 (b) 50 (c) 60 (d) 70		and C(60)	5
28. The number of numbers greater than 23000 can be	vertices of	5 B (0,0) are be	0
formed from the digits 1, 2, 3, 4, 5	(a) Right angled triangle	Isosceles T.	
(a) 80 (b) 90 (c) 120 (d) 150	(c) Straight Line	d) Equilateral Triangle	5
29. The coefficient of x^8y^{10} in $(x+y)^{18}$ is	42. If the point $P(x,y)$ be equiding $A(a+b,b-a)$ and $B(a-b,a)$	stant from the	
(a) 2^{18} (b) $^{18}P_{10}$ (c) $^{18}C_8$	A(a+b,b-a) and $B(a-b,a)$	+ b), then	
30. The coefficient of x^4 in expansion of	(-)	b) $bx = ay$	
$(1+x+x^2+x^3)^{11}$ is	(c) xy = ab	4)	
(a) 900 (b) 990 (c) 999 (d) 1000	The multiple of the lines	hat .	i
31. If A be a set of cardinality n, then number of one to	- o and have an i	intercept of land	
one onto functions from set A to A is	and coordinate axes is		
(a) 2^n (b) $n!$ (c) n^n (d) n^3	(a) 4 (b) 3	c) 2 (d) 1	1
32. If f is a function from a finite set A having 10	44. The four lines $ax \pm by \pm c = 0$	enclose a	
elements to a finite set B having 5 elements then the	(a) Square (b) Paralle	elogram 5	8
number of functions from A to B is 5500000	I (U) KIIOIII	hue	1
(a) 5^{10} (b) 50 (c) 10^5 (d) 105	45. The area bounded by the lin	nes y = x - 1 and	
33. If A and B are two sets, then $(A \cup B)' \cap B$ is equal to	y = - x + 1 issquare unit.	5	9
(a) B (b) A (e) p (d) A - B	(a) 1 (b) 2 (c) 3 (d) 4	
34. If $A = \{a, b, c\}$ and $B = \{a, b, d, e, f\}$ are two sets,	46. The number of vectors of unit len	igth perpendiculars to	
the number of elements in $(A - B) \times (A \cap B)$ is	vectors $\vec{a} = i + j$ and $\vec{b} = k + j$ is	s	200
(a) 3 (b) 2 (c) 1 (d) 0	(a) 1 (b) 2 (c)) 3 (d) infinite 60).
38. If A and B are two disjoint sets having 3 and 5	47. The angle between vectors $\vec{a} \times \vec{b}$	and $\vec{b} \times \vec{a}$ is	
elements respectively, then power-set of $A \times (B - A)$	$(a) 0^0$ (b) 45^0 (c)	90° (d) 180°	
contains elements.	48. Two dice are thrown. The probab	pility that the sum of	7
(a) 1 (b) 2^3 (c) 2^6 (d) 2^{15}	the numbers on two dices will be	7 js 🕏 = 🕇 🕅	•
36. If $y = \tan^{-1} \left\{ \frac{1 + \tan x}{1 - \tan x} \right\}$, then $\frac{dy}{dx}$ is equal to		1/6 6 (d) 8/36	
	A single letter is selected at ran	dom from the word	1
(a) 1 (b) 0 (c) -1 (d) $\sec^2 x$	"JAMIA". The probability that it is		
37. If $y = \log \tan \theta$, then $\frac{dy}{d\theta}$ is equal to		1/5 (d) 4/5	
(a) $2 \sec 2\theta$ (b) $2 \sec^2 \theta$	50 One die and a coin are tossed		c
(c) $\sec \theta \csc \theta$ (d) $2 \csc^2 \theta$	probability of getting 6 on die and		
38. If $\sqrt{x+y} + \sqrt{y-x} = a$, then $\frac{d^2y}{dx^2}$ is equal to	(a) $\frac{1}{3}$ (b) $\frac{1}{4}$ (c) $\frac{1}{12}$ (c)	$\frac{1}{6}$	
(2) 20 (1) 2/2 (1)	51. The 2's complement of the	binary number	
(a) $-2a$ (b) $2/a^2$ (c) $2/a$ (d) $2a$	(10101000) ₂ is?		-
Add: Lakhanpur (Nr. Petrol Pump).	Gurdon V. DAG	0072444 A	
The second secon	LINEY ESPRIE	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	



ASPIRE STUDY MCA ENTRANCE CLASSES By Shivam Gupta

data to be erased at byte-level? (a) PROM	公费 克工	76. Which of the following is series: 78,57,36,19,10,2,	a wrong number in the
(a) Flash Memory (b) Cache Memory (c)	h) Associative Memory I) Magnetic Tape	(a) 3, 7, 11, 13	(b) 6, 8, 15, 18 off , 5, 7, 17,
principle of the 'locality of refe		and so form a group. Choose	
62. Which of the following me		75. Three of the following four	``
~ .	l) Word Processor	(a) 185 (b) 165	(c) 65 (d) 85
	o) Compiler	belong to that group?	215"
61. Which of the following is an ex	10.7%	and so form a group. Which	100
	. 4	74. Three of the following four	
	$\frac{N(N+1)}{2}$	(a) JMTK (b) JMKU	JMKT (d) MKUJ
(a) N (b) N ²	23. MNPQ : QTRU : : FIGP : ?	
nodes is	3 1 4 1 4 1 T	(a) 36 (b) 27	(0) 03 (4) 14 1
(c) Class – C 60. The number of links in a fully	mashed network of N	(a) 816 (b) 2134	16x8x101 96 28 49x
(a) Close C	Delace _ D	(a) 816 (b) 2134	
for multicasting?	o) Class – B	(a) 4 (b) 8	204562' is to
59. Which of the following IP ad	dress class is reserved	$(123)_b = 291$, then the val	(c) 10 (d) 16
	1) 0.0.0.0		AND STATE OF THE S
X. Z	0) 255.255.0.0	(a) Machine Language	(b) Assembly Language (b) COBOL
58. The default subnet mask for cla		language?	(b) Assembly Language
		69. Which of the following is a hi	ign – iever programming
	b) 164.255.10.1	(a) 1 (b) 2	(0)0
57. Which of the following is a Cla		$68. \text{ If } (2?5)_8 = 141, \text{ then the mis}$	
	Terabytes	(c) (5007) ₈	(d) (4055) ₈
	o) Gigabytes	(a) (7005) ₈	(b) (1007) ₈
56.1 Petabyte is equivalent to 1024		(A07) ₁₆ is	(b) (1007) _a
		67. The Octal equivalent of the	ricxaucciniai number
(3)			
	o) Accumulator	(c) (11110000) ₂	(d) $(11001100)_2$
execution?		(a) (11011011) ₂	(b) (10101010) ₂
address of next instruction		66. The binary of the decimal num	
55. Which of the following CPU		(d) Static RAM requires refre	
(c) Chrome	I) Safari	(c) Dynamic RAM uses capac	
) Internet Explorer	(b) Static RAM uses transisto	
54. Which of the following is not a		Static RAM is faster than	
(a) 4 (b) 8 (c	e) 16 (d) 32	65. Which of the following statem	
53. Intel 8085 is a(n) bit n	nicroprocessor?		(d) Charles Babbage
(c) Both (a) and (b)	XNOR	(a) Bill Gates	(b) Tim Berners - Lee
(a) NAND (b) NOR	computer'?	NAME
2. Which of the following is not a	universal logic gate?	computer, and considered	as the 'father of the
(01011000)2	I) (11111000) ₂	64. Who originated the cond	cept of programmable
(3) [[][[][[][][][][][][][][][][][][][][][o) (01011111) ₂	-(c) EEPROM	(d) All of these



ASPIRE STUDY

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	Jupta
77. What will be the next number in the following series?	mother of Y'- 'Y/V' many /y .
2, 6, , 42, 1806,	Y'. Then which of the following
(a) 20005 (b) 251645	Y'. Then which of the following expression indicates
1,3263442 (d) None of these	(a) $Q - P + R/T$
78. A letter series is given in which some letters are	(a) $Q - P + R/T$ (b) $P \times Q/R + T$
missing. The missing letters are given in the proper	(b) $P \times Q/R - T$ (d) None of these 7 of their weights from the top, A becomes at 3
sequence as one of the options. Find the correct	of their weights from the ten
(ARBAC	of their weights from the top, A becomes third, E between D and A while C and D are not at the top. Who among them is the second heavies?
C_BBA_CAB_AC_AB_AC	Who among them is the second heaviest?
(a) BABCC (b) ACBCB	(a) A (b) D
I ABCBC (d) BCACB	90 O. R. S. T. Hand V and V
79. One terms in the following number series is wrong.	90 Q, R, S, T, U and V are scated in a straight line facin North. S is second to the right of T and T is second to the right of Q. R is to the left of Q and
Find out the wrong term. 1, 2, 6, 15, 30, 56	the right of O. P. is to the left of O.
(a) 6 (b) 15 (c) 30 (d) 56	
80. If '234' is to '10', then '345' is to	left of V. What is Q's position with respect to S? (a) Third to left
(a) 13 (b) 11 (c) 12 (d) 10	(a) Third to left I Second to left (2,0,1,1,1,5) (d) Fifth to left
81. Find odd one out	91 Which of the following is and
(a) C (b) I (c) S	91. Which of the following is not a synonym of sympathy?
32. If $HOTEL = 55$, then $BORE = ?$	
(a) 40 (b) 45 (c) 35 (d) 55 (THE STREET
3. In a certain code 13479 is written as AOFIL and 5268	92 Which of the following is the set of
is written as DMPN. How is 396824 written in that	(a) Forbearance (b) Stoicism
code?	I Sufferance (d) None of these
(a) QLPMNF (b) QLPNKJ	93. Which of the following words is correctly spelled?
I QLPNDF (d) QLPNMF	(a) Liaison (b) Liasion
34. 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 the verb "become" is
88. A and B are brothers. C and D are sisters. A's son is	(a) Became (b) Becomed
D's brother. How is B related to C?	I Become (d) None of these
(a) Father Brother	95. The simple past of the verb "set" is
Cincle (d) Grandfather	(a) Sit (b) Set (c) Sat (d) None
6. Introducing Sanjay, Rinki said, "His brother's father is	
the only son of my grandfather". How is Rinki related	(a) Graduate (b) Graduating
to Sanjay?	I Graduate from (d) Graduating from
(a) Sister (b) Mother (c) Niece (d) Daughter	97. I have trouble
7. A is the brother of B, B is the brother of C. D is the	97. I have double
	(a) Remembering my password
father of A. Which of the following statements cannot be definitely true?	
be definitely true.	(b) Remember my password
(a) B is the brother of A (b) B is the son of D	
(c) A is the brother of C	(c) To remember my password
38. $'X + Y'$ means $'Y$ is the brother of X' ; $'X \times Y'$ means	(d) To remembering my password
'Y is the husband of X'; $X - Y'$ means 'X is the	(a) To remembering my password

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