

India's No. 1 Institute for All India MCA Entrance Training

Read the following passage and answer the questions 1 to 5

Anthropologists have pieced together the little they know about the history of left handedness and right - handedness from indirect evidence. Though early men and women did not leave written records, they did leave tools, bones, and pictures. Stone Age hand axes and hatchets were made from stones that were carefully chipped away to form sharp cutting edges. In some, the pattern of chipping shows that these tools and weapons were made by right handed people. designed to fit comfortably into a right hand. Other Stone Age implements were made by or for lefthanders Prehistoric pictures, painted on the walls of caves, provide further clues to the handedness of ancient people. A right - hander finds it easier to draw faces of people and animals facing toward the left. whereas a left - hander finds it easier to draw faces facing toward the right. Both kinds of faces have been found in ancient painting. On the whole, the evidence seems to indicate that prehistoric people were either ambidextrous or about equally likely to be left - or right - handed. But, in the Bronze Age, the picture changed. The tools and weapons found from that period are mostly made for right - handed use. The predominance of right - handedness among humans today had apparently already been established.

NIMCET 2017 Question Paper Set A with Solution by Jitendra Mishra Academy, Indore (India's No. 1 Institute for All India MCA Entrance Training)

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- 1. What is the indirect evidence through which the preferred handedness of the Stone Age People could be understood?
 - (A) Petrified forms of vegetation
- (B) Patterns of stone chipping
- (C) Fossilized waste material
- (D) Fossilized footprints
- 2. According to the passage, a person who is right handed is more likely to draw people and animals that are facing
 - (A) upward

(B) downward

(C) toward the right

- (D) toward the left
- 3. What does the words "the picture" refer to which of the following?
 - (A) Faces of animals and people
 - (B) People's view from inside a cave
 - (C) People's tendency to work with either hand
 - (D) The kinds of paint used on cave walls



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- 4. The author implies that which of the following developments occurred around the time of the Bronze Age
 - (A) The establishment of written records
 - (B) A change in the styles of cave painting
 - (C) An increase in human skill in the handling of tools
 - (D) The prevalence of right handedness
- 5. What is the main ides conveyed through the passage?
 - (A) The purpose of ancient implements
 - (B) The significance of prehistoric cave paintings
 - (C) The development of right handedness and left handedness
 - (D) The pattern of chipping ancient tools

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6.	Which of the following	ng refers to the idiom	"under the sun"?	
	(A) Anything and ev	erything	(B) A large numb	er of things
	(C)A few things		(D) Something	
7.	Choose a phrasal v	erb to replace the exp	planation in brackets	:
	When we arrive at t	he station, we (desce	end from)	the train
	(A) get down	(B) stand down	(C) get off	(D) stand out
8.	choose the suitable	word from the followi	ing and fill in the blar	nk:
	The medal was awa	arded for the student's	s conduc	t and courage.
	(A) non receptive	(B) exemplary	(C) unreliable	(D) disputable

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9. Which of following is a correctly spelt word ?

(A) Hiderence (B) Hindrence (C) Hindarrence (D) Hindrance



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10.	Which of the follow	ving statement is gran	nmatically correct?	
	(A) The earth revo	lves round the Sun		
	(B) I have not seen	n him since four years.	364	
	(C)She met an on	e – eyed man		
	(D)One of the boo	ks borrowed by the st	udents are famous.	
11.	the sentence best	suit the meaning of th	e sentence.	Which when inserted in
			the side of plaintif s	ince all but one witness
	testify his story wa		(D) meanwards, fa	w fatabad
	(A) paucity, accura		(B) prosperity, fa	
	(C)prepondenerar	ice, correct	(D) accuracy, ins	sufficient
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12.	Choose the one w	hich is nearest in mea	aning to the word "TU	RN UP" ?
	(A) Show up	(B) Come up	(C) Land up	(D) Crop up
13.	The phrase "Read	y to believe" means		
	(A) Credulous	(B) Creditable	(C) Credible	(D) Ineredible
14.	Choose the appro	priate word from amor	ng the choice to fill in	the blank in sentence :
	"If you drink to mu	ch, it will	_ your judgement"	15.0h
	(A) impair	(B) impede	(C) impose	(D) impel
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	The second second	itendra Mishr		The second secon
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15.	Choose the set o sentence as a who		k that best fits the r	neaning of the following
		AND A SECURITION OF THE PROPERTY OF THE PROPER	March 1. A. Tarrick with a reliable to the Call of the Control of the Call	me plant, there are quite
	a few significant d		them.	
	(A) Since, among	on	(B) Howeve, in	roon
	(C)Though, between	f	(D) Because, acr	
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			LI Sussian				
16.			The second secon	e given word/sentence			
		avels to a sacred place					
	(A) Hermit	(B) pilgrim	(C) Saint	(D) Medicant			
17.	sentence meaning	ngfully complete :		the blanks to make the			
	Some people the organization		s into believing that th	ey are indispensable to			
	(A) keep	(B) fool	(C) delude	(D) denigrate			
	NUMBER	TE 401E 0	D C . 1 . 20	0.1.0			
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		CAMMITTE L'INDE	AL ALLE GILLS				
18.	Fill in the blan complete.	Fill in the blanks with appropriate phrase to make the sentence meaningfully complete.					
		bad weather, the trip v	vill be postponed to ne	xt week.			
	(A) In case	(B) In case of	(C) In case to	(D) In case from			
19.	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sentence, choose the m					
		ng summarized informa					
	(A) Dictionary	(B) Anthology	(C)Encyclopedia	(D) Directory			
20.		st effective word from that	ne given words to fill in	the blanks to make the			
				f his apartment when a			
	passer by	down the mo	E-CATER CONTRACT	- Carlo			
	(A) forced	(B) Fell	(C) turned	(D) knocked			
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(1)			•	trance Training)			
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48 44 8 73		The second of the second	Contract to the state of the st	and an a management of the contract of the con			
21.	Which one of the	following boolean alge	ebraic rule is correct ?				
		(B) $A + AB = A +$	は かてき けんぶん か シャンド・バース チャ コート・バイン				



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- 22. The representation of a floating point binary number +1001.11 in 8 bit fraction and 6bit exponent format is
 - (A) Fraction: 01001110 exponent: 000100
 - (B) Fraction: 00001001 exponent: 000011
 - (C)Fraction: 10010000 exponent: 110000
 - (D) Fraction: 00100100 exponent: 011000
- 23. Which term is redundant in the expression AB + A'C + BC?
 - (A) BC

- (B) A'C
- (C) AB
- (D) None of these

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- 24. Let the memory access time is 10 miliseconds and cache hit ratio 15% The effective memory access time is
 - (A) 2 miliseconds

(B) 1.5 miliseconds

(C) 1.85 microseconds

- (D) 1.85 miliseconds
- 25. Which of the following is the representation of decimal number (- 147) in 2's compliment notation on a 12-bit machine?
 - (A) 111101101100
- (B) 110001001101 (C) 111101101101 (D) 000001101101

- 26. The first instruction of bootstrap loader program of an operating system is stored in
 - (A) RAM
- (B) Hard disk
- (C) BIOS
- (D) None of these

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- 27. Consider the equation $(40)_x = (132)_y$ is some bases x and y. Then a possible set of value of x and y are
 - (A) 8 and 12
- (B) 12 and 8 (C) 6 and 12
- (D) 12 and 6
- 28. The smallest intger that can be represented by an 8-bit number in 2's complement form is
 - (A) 256
- (B) 128
- (C) 127
- (D) -255



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29. Which of the fo	ollowing in a functional	y complete set of gates?	
(A) I but not II	(B) II but not I	(C) Neither I nor II	(D) Both I and II
	per binary function that	can be defined using n bo	ollean variables is
(A) 2^{n-1}	(B) 2 ⁿ	(C) 2 ⁿ⁺¹	(D) None of these
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31. Two persons S	and M have made the	e following statements amo	ng themselves.
	I am certainly not over		. 9 (v. v. v
	AND THE RESIDENCE OF THE PARTY	are at least 5 year older th	nan me.
	are at least 39 years.		
	statements are wrong	, what are the ages of M a	nd S ?
(A) 36 and 40	-	(B) 36 and 41	outle a al
(C)37 and 40		(D) Cannot be deter	minea
		e integers to be picked up	
(A) 2	(B) 5	(C) 7	(D) 10
In the report p child C is less A is less intelli	osychologists pointed to intelligent child D. The	chological tests to know the chat child A is less intellige child B is less intelligent to the child is most intelligent?	ent than child B. The han child C and child
(A) D only	S /	(B) E only	
(C)D or E		(D) Neither D nor E	
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	TO A SECURE THE PROPERTY OF TH	en, a committee of 5 personany ways can this be don	
(A) 564	(B) 645	(C) 735	(D) 756



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	-			
35.	lecturer, one archarried couples. an architect or ar	hitect, one accountan The lawyer is marrie	t and one lawyer in t d to D, who is a hous accountant is married	e two houses wives, one the group. There are two se wife. No lady is either to F, who is lecturer. If E
	(A) Lawyer	(B) Architect	(C) Lecturer	(D) Accountant
36.	placed above D,		and D is placed abo	A is placed below E, C is ove E, then which of the
	(A) C	(B) B	(C) A	(D) E
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11.	•			itrance Training)
_				Visit us : www.jmaindore.com
		2010/22/2010/04/04		
37.		system. The next two	그렇게 가다면 가다면 가다면 이 독리는 것이 되었다. 그 사람이 모르는 것 같다.	tations of decimal 99 in ence are
	(A) 71, 69	(B) 69, 57	(C) 67, 59	(D) 69, 63
0	actions 29 to 40 c	are based on the foll	owing i	
Qui			ALMERICAN IN THE RESIDENCE OF	a married souples
		ix person A, B, C, D, I nother of A and moth and mother of F		o married couples.
	 F is granddaug 	hter of E	1.7	
38.	Who is C to A?	7 7 70	A A	100
	(A) Daughter	7-7- III (N	(B) Mother	- 1557
	(C) Father	C. C. L.	(D) Cannot be d	etermined
39.	Which of the follo	wing is true ?	Y JULY N	
	(A) A is brother of		(B) A is sister of	F
	(C)B has two dau	ighters	(D)	None of these
40	Who among the f	ollowing is one of the	couples ?	
	(A) CD	(B) DE	(C) EB	(D) None of these
			THE OTHER	and and a second



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41. The missing number in the following series 336, 210, 120, 60, _____, 6 is

(A) 24

(B) 30

(C) 34

(D) 40

42. If the day after in the day tomorrow is three days before Friday, then today is

(A) Tuesday

(B) Thursday

(C) Saturday

(D) Monday

43. Find the missing term of the following series:

DCXW, HGTS,..... POLK, TSHG

(A) KLOP

(B) LKOP

(C) KLPO

(D) LKPO

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- 44. Four passengers in a train find that they form an interesting group. Two of them are lawyers and the other two are doctors. Two of them speak Bengali and the other two speak Hindi and no two of the same profession speak the same language. They also found that two of them are Christians and two are Muslims and no two of the same religion speak the same languages. The Hindi speaking doctor is a Christian. Then which of the following statement logically follows?
 - (A) The Bengali speaking lawyer is a Muslim
 - (B) The Christian lawyers speaks Bengali
 - (C) The Bengali speaking doctor is a Christian
 - (D) The Bengali speaking doctor is a Muslim

Question 45 to 47 are based on the following:

In an amusement park seven friends - Feroz, Gautam, Harish, Javed, Kumar, Laxman and Mohan are deciding who will ride the roller coaster. There is time for only one ride before the park closes.

- If Feroz rides Gautam must ride.
- If Gautam and Harish both ride, Javed cannot ride.
- If Harish and Javed both ride, Laxman cannot ride.
- If Javed rides, either Kumar or Mohan must ride.
- Kumar and Laxman cannot both ride, but one of them must ride.
- Kumar and Mohan cannot both ride

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(A) Harish, Jave	ed and Laxman	(B) harish. Ja	ved and Kumar
(C) Feroz, Gaut			Kumar and Laxman
46. If Javed and M	ohan both ride, which	of the following is tru	ie?
(A) Gautam car	nnot ride	(B) Harish mu	ust ride
(C) Feroz canno	ot ride	(D) Laxman n	nust ride
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	DISOLUTION DISOLUTION	for Sura Son	
	A CONTRACTOR OF THE PROPERTY O		r of people who can ride?
(A) 5	(B) 7	(C) 4	(D) 6
48. The number of	squares in the followi	ng 4 × 6 grid is	
18. The number of	squares in the followi	ng 4 × 6 grid is	
8. The number of	squares in the followi	ng 4 × 6 grid is	
8. The number of	squares in the followi	ng 4 × 6 grid is	
8. The number of	squares in the following	ng 4 × 6 grid is	
8. The number of	squares in the following	ng 4 × 6 grid is	
18. The number of	squares in the following	ng 4 × 6 grid is	
18. The number of	squares in the following	ng 4 × 6 grid is	
48. The number of	squares in the following (B) 44	ng 4 × 6 grid is	(D) 54
(A) 36	(B) 44	(C) 51	(11)
(A) 36	(B) 44 CET 2017 Question	(C) 51	with Solution
(A) 36 NIMC by	(B) 44 CET 2017 Question V Jitendra Mis	(C) 51 on Paper Set A v hra Academy,	with Solution Indore
(A) 36 NIMC by (India's No. 1	(B) 44 CET 2017 Question Jitendra Misl	(C) 51 on <u>Paper Set A</u> v hra Academy, ll India MCA	vith Solution , Indore Entrance Training)
(A) 36 NIMC by (India's No. 1	(B) 44 CET 2017 Question Jitendra Misl	(C) 51 on <u>Paper Set A</u> v hra Academy, ll India MCA	with Solution Indore
(A) 36 NIMC by (India's No. 1 MA HOUSE - 7, CHAN	(B) 44 CET 2017 Question Jitendra Misl Institute for A DRALOK COLONY, INDOR	(C) 51 on Paper Set A very hra Academy, Il India MCA RE (M.P.) Ph.: 0731 - 4236	with Solution Indore Entrance Training) House www.jmaindore.com
(A) 36 NIMC by (India's No. 1 IMA HOUSE - 7, CHAN 49. A cube is made	(B) 44 CET 2017 Question Jitendra Misl Institute for A DRALOK COLONY, INDOR	(C) 51 on Paper Set A ventor Academy, Il India MCA RE (M.P.) Ph.: 0731 - 4236	vith Solution , Indore Entrance Training)



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50. Three thieves rob a bakery of bread, one after the other. Each thief takes half of what is present and half bread. If 3 breads remain at the end, what is the number of breads that were present initially?

(A) 24

(B) 31

(C)37

(D) 41

51. A caterpillar crawls up a pole of 75 inches high standing from the ground. Each day is crawls up 5 inches and each night it slides down 4 inches. When will it reach the top of the pole?

(A) At the end of 70 days

(B) At the end of 71 days

(C) At the end of 72 days

(D) At the end of 73 days

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52. A man's investments doubles in every 5 years. If the invested Rs. 5,000 in each of the years 1990, 1995, 2000 and 2005, then what was the total amount received by him in 2010?

(A) Rs. 140000

- (B) Rs. 30000
- (C) Rs. 70000
- (D) Rs. 150000

Questions 53 to 57 are based on the following "

A, B, C, D, E, F, G and H are sitting around a circular table facing the centre. Each one of them has a different profession viz, doctor, engineer, architect, teacher, clerk, shopkeeper, banker and businessman.

- A sit third to right of teacher.
- · D sits second to left of G.
- · G is not an immediate neighbor of teacher.
- · Only one person sit between B, the shopkeeper and the teacher.
- The one who is an architect sits third to right of the shopkeer.
- H is sit between architect and engineer.
- E is not an immediate neighbor of H.
- Engineer sits third to the right of clerk.
- Only one person sits between the businessman and F.

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53.	E is neither a b	ousinessman nor a doctor. (B) D	Who amongst the (C) E	following is the clerk ? (D) G
54.	(A) E is an imm	llowing is true with respected at the engineering the engineer		arrangement ?
	(B) E is an arch	THE PARTY OF THE P	A CONTRACTOR	
		an immediate neighbor of r sits between H and the e	Control of the contro	
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			- N	
55.	What is the pro		Maria Sala	(D) T
	(A) Architect	(B) Shopkeeper	(C) Banker	(D) Teacher
56	Who site exact	ly between the architect a	nd husinessman 2	
50.	(A) C and H	ly between the architect a	(B) Cleark	
	(C)Banker and	Shonkeener	(D)	Doctor
	(C) Dariker and	Опоркеерег	(D)	Doctor
57.	Who sits imme	diately right of the busines	ssman ?	
	(A) Teacher	(B) Doctor	(C) Cleark	(D) Banker
	4344			
		CET 2017 Question I		
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		DRALOK COLONY, INDORE (M		
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58.		s home for office in car. I		
		stwards and covered 8 kg		
		ed left and drove for 20 kr office from the home?	n and reached only	ce. now lar and in which
	(A) 20 km Nort		(B)	15 km North -
	West	i VVGSt	(8)	10 Kill Horut
	(C)30 km Nort	h – West	(D)	25 km North
59.	John is 20 yea What is Steve'	rs older than Steve. In 10 s age now ?	years, Steve's age	will be half that of John ?
	(A) 2	(B) 8	(C) 10	(D) 20
		ACADEMY- JMA HOUSE - 7, CHA		

JMA MCA Entranço

(A) Sister

(A) 44, 432

JITENDRA MISHRA ACADEMY

60. Pointing to a boy, Aruna said to Pushpa, "The mother of his father is the wife of your

61. Which of the following pairs of number follow the number in the series 2, 4, 12, 24,

maternal grand-father". How is Pushpa related to that boy?

(B) Niece

(B) 288, 332

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(C) Cousin sister

(C) 332, 288

(D) Wife

(D) 432, 144

-	CET 2017 Question I y Jitendra Mishra	THE RESERVE	
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 R is second Q and T are S and P are Q is not a r Which of the f 	following are sitting in a rov	ch other.	F68
(A) P, Q, R	(B) P, U, S	(C) U, T, S	(D) P, T, R
two subjects, three other h subjects. F's C and E. Hist subjects, they	six teacher A, B, C, D, E, a one compulsory and the ave it as compulsory sub- compulsory subject is Math- ory and English are A's sully are reverse of D's. Che ere is only one female to	other optional. D's ject. E and F have nematics, which is a ojects but in term of emistry is an optio	optional is History, while Physics as one of their n optional subject of both compulsory and optional nal subject of one of the
63. What is C's co	ompulsory subject ?	/ III /II	
(A) Physics	(B) Chemistry	(C) English	(D) History
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64. Who among t	he following, has chemistry (B) B	as a subject ? (C) C	(D) D

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- 65. Which of the following groups of teachers has History as the compulsory subjects? (A) B, C and D (B) C and D (C) A, B and C (D) A. C and D
- 66. Disregarding which is compulsory or optional subject, who has the same two subject combination as that of F?
 - (A) B

(B) E

(C) D

- (D) A
- 67. If TRANSFER is coded as RTNAFSRE, the ELEPHANT would be coded as (A) LEPEHATN (B) LEPEAHTN (C) LEEPAHTN (D) LEPEAHNT

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68. Which two of the following numbers comes in the next in the following sequence.

61, 57, 50, 61, 43, 36, 61,

- (A) 29, 61
- (B) 29, 20 (C) 29, 22
- (D) 31, 61
- 69. How many minimum number of colours will be required to paint all the sides of a cube without the adjacent sides having the same colours?
 - (A)3

(B) 4

(C) 5

(D) 6

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70. In the following sequence, which pair of numbers fill in the blanks?

1, 1, 3, 2, 8, 5, 21, 13,

- (A) 54, 33
- (B) 34, 55
- (C) 55.34
- (D) 33, 54
- 71. A and B are independent witness in a case, The chance that A speaks truth is x and B speaks truth is y. If A and B agree on certain statement, the probability that the statement is true is

(A)
$$\frac{xy}{xy + (1-x)(1-y)}$$
 (B) $\frac{xy}{(1-x)(1-y)}$

(B)
$$\frac{xy}{(1-x)(1-y)}$$

(C)
$$\frac{(1-x)(1-y)}{xy+(1-y)(1-x)}$$

(D)
$$\frac{x+y}{xy+(1-x)(1-y)}$$



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72.	The harmonic mean of two numbers is 4. Their arithmetic mean A and the geometric
	mean G satisfy the relation $2A + G^2 = 27$, then the two numbers are

- (A) 4 and 2
- (B) 6 and 3
- (C) 5 and 7
- (D) 4 and 1

73. In an entrance test there are multiple choice questions, with four possible answers to each question of which one is correct. The probability that a student knows the answer to a question is 90%. If the student gets the correct answer to a question, then the probability that he was guessing is

(A) $\frac{37}{40}$

- (B) $\frac{1}{37}$ (C) $\frac{36}{37}$
- (D) $\frac{1}{9}$

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74. A man is known to speak the truth 2 out of 3 times. He threw a dice cube with 1 to 6 on its faces and reports that it is 1. Then the probability that it is actually 1 is

 $(A)^{\frac{1}{2}}$

- (B) $\frac{1}{7}$
- (C) $\frac{2}{7}$

Let A and B be two events such that

 $P(\overline{A \cup B}) = \frac{1}{6}, P(A \cap B) = \frac{1}{4}$ and $P(\overline{A}) = \frac{1}{4}$ where \overline{A} stands for complement of event A. Then

the events A and B are

- (A) independent but not equally likely
- (B) mutually exclusively and independent
- (C) equally likely and mutually exclusive
- (D) equally likely but not independent

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76. The mean and variance of a random variable X having binomial distribution are 4 and 2 respectively. The P(X = 1) is

 $(A) \frac{1}{22}$

- (B) $\frac{1}{16}$
- (C) $\frac{1}{2}$



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- 77. If \bar{X} is the mean of distribution of X, then usual notation $\sum_{i=1}^{n} f_i(x_i \bar{x})$ is
 - (A) Mean deviation about mean
- (B) Standard deviation

(C)1

- (D) 0
- 78. If E₁ and E₂ are two events associated with a random experiment such that P(E₂) = 0.35, $P(E_1 \text{ or } E_2) = 0.85$ and $P(E_1 \text{ or } E_2) = 0.15$, then $P(E_1)$ is
 - (A) 0.25
- (B) 0.35
- (C) 0.65
- (D) 0.75

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- 79. Find a matrix x such that 2A + B + X = 0, whose $A = \begin{bmatrix} -1 & 2 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -2 \\ 1 & 5 \end{bmatrix}$
 - $(A)\begin{bmatrix} 1 & 2 \\ 7 & 13 \end{bmatrix}$

- (B) $\begin{bmatrix} -1 & -2 \\ -7 & -13 \end{bmatrix}$ (C) $\begin{bmatrix} 13 & 2 \\ 7 & 1 \end{bmatrix}$ (D) $\begin{bmatrix} -13 & -2 \\ -7 & -1 \end{bmatrix}$
- 80. If in a triangle ABC, the altitudes from the vertices A, B, C on opposite sides are in HP, then Sin A, Sin B, Sin C are in
 - (A) HP

(B) Arithmetico – Geometric progression

(C)AP

- (D) GP
- 81. α , β are the roots of the an equation $x^2 2x \cos \theta + 1 = 0$, then the equation having α^{π} and β^{π} is

$$(A) x^2 - (2 \cos n\theta)x + 1 = 0$$

(B)
$$2x^2 - (2 \cos n\theta)x - 1 = 0$$

$$(C)x^2 + (2\cos n\theta)x + 1 = 0$$

(D)
$$x^2 + (2 \cos n\theta)x - 1 = 0$$

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- 82. The equation $(x a)^3 + (x b)^3 + (x c)^3 = 0$ has
 - (A) All three real roots
 - (B) One real and two imaginary roots
 - or Sure Success (C) Three real roots, namely x = a, y = b, z = c
 - (D) None of these



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- 83. Three positive numbers whose sum is 21 are in arithmetic progression. If 2, 2, 14 are added to them respectively then resulting numbers are in geometric progression. Then which of the following is not among the three numbers?
 - (A)25

- (B) 13

(D) 7

- 84. If $\sin^{-1}\frac{2a}{1+a^2} + \sin^{-1}\frac{2b}{1+b^2} = 2\tan^{-1}n$ then

 - (A) $n = \frac{(a-b)}{(1+ab)}$ (B) $n = \frac{ab}{(a-a)}$
- (C) $n = \frac{(a+b)}{(1-ab)}$ (D) $n = \frac{(1-ab)}{(1+ab)}$

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- 85. The value of A that satisfies the equation a sin A + b cos A c is equal to
 - (A) $\tan^{-1}\left(\frac{a}{b}\right) \pm \cos^{-1}\left(\frac{c}{\sqrt{a^2+b^2}}\right)$

(B) $\tan^{-1}\left(\frac{c}{b}\right) \pm \sin^{-1}\left(\frac{a}{\sqrt{a^2+b^2}}\right)$

(C) $\tan^{-1} \left(\frac{a}{b} \right) \pm \sin^{-1} \left(\frac{c}{\sqrt{a^2 + b^2}} \right)$

- (D) None of these
- 86. If $\tan x = \frac{-3}{4}$ and $\frac{3\pi}{2} < x < 2\pi$, then the value of $\sin 2x$ is
 - (A)7/25
- (B) -7/25
- (C) 24/25
- (D) -24/25

- Find the principal value of cot⁻¹ (-√3)
 - $(A)\frac{\pi}{2}$

- (B) $\frac{\pi}{6}$
- (C) $\frac{7\pi}{6}$
- (D) $\frac{5\pi}{6}$

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- 88. If $\cos\theta = \frac{4}{5}$ and $\cos\phi = \frac{12}{13}$, with θ and ϕ both in the fourth quadrant, the value of $\cos\theta$ $(\theta + \phi)$ is
 - $(A) \frac{16}{05}$
- (B) $-\frac{33}{65}$
- (C) $\frac{33}{65}$



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(A)
$$\frac{\sqrt{10+2\sqrt{5}}}{4}$$

(B)
$$\frac{\sqrt{10-2\sqrt{5}}}{4}$$

(C)
$$\frac{(\sqrt{5}+1)}{4}$$
 (D) $\frac{(\sqrt{5}-1)}{4}$

(D)
$$\frac{(\sqrt{5}-1)}{4}$$

90. Express ($\cos 5x - \cos 7x$) as a product of sines or cosines or sines and cosines.

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91. If non-zero numbers, a b, c are in A.P., then the straight line $\frac{x}{2} + \frac{y}{b} + \frac{1}{2} = 0$ always passes through a fixed point, then the point is

(B)
$$\left(1, -\frac{1}{2}\right)$$

92. If the lines
$$x + (a - 1)y + 1 = 0$$
 and $2x + a^2y - 1 = 0$ are perpendicular, then the condition satisfied by a is

(A)
$$|a| = 2$$

(B)
$$0 < a < 1$$

$$(C) -1 < a < 0$$

(D)
$$a = -1$$

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93. In a triangle ABC, let $\angle C = \frac{\pi}{2}$. If r is the inradius and R is circumradius of the triangle ABC, then 2(r + R) equals

$$(A)a+c$$

$$(B) a + b + c$$

$$(C) a + b$$

$$(D)b+c$$

94. If
$$x^2 + 3xy + 2y^2 - x - 4y - 6 = 0$$
 represents a pair of straight lines, their point of intersection is

95. The equation of the tangent line to the curve
$$y = 2x \sin x$$
 at the point $\left(\frac{\pi}{2}, \pi\right)$ is

$$(A) y = 2x + 2\pi$$

(B)
$$y = 2x$$

(C)
$$y = -2x + 2\pi$$

(D)
$$y = -2x$$



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96. If the graph of $y = (x - 2)^2 - 3$ is shifted by 5 units up along y-axis and 2 units to the right along the x-axis, then the equation of the resultant graph is

$$(A) y = x^2 + 2$$

(B)
$$y = (x-2)^2 + 5$$

(B)
$$y = (x-2)^2 + 5$$
 (C) $y = (x+2)^2 + 2$ (D) $y = (x-4)^2 + 2$

(D)
$$y = (x - 4)^2 + 2$$

97. The direction cosines of the vector $\mathbf{a} = (-2\mathbf{i} + \mathbf{j} - 5\mathbf{k})$ are

(B)
$$\frac{1}{3}, \frac{-1}{6}, \frac{-5}{6}$$

(C)
$$\frac{2}{\sqrt{30}}$$
, $\frac{1}{\sqrt{30}}$, $\frac{5}{\sqrt{30}}$

(D)
$$\frac{-2}{\sqrt{30}}, \frac{1}{\sqrt{30}}, \frac{-5}{\sqrt{30}}$$

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98. The equation of the hyperbola with centre at the region, length of the transverse axis is 6 and one focus (0, 4) is

(A)
$$\frac{y^2}{9} + \frac{x^2}{7} = 1$$

(B)
$$\frac{y^2}{9} - \frac{x^2}{7} = 1$$

(C)
$$\frac{y^2}{7} + \frac{x^2}{9} = 1$$

(D)
$$\frac{y^2}{7} - \frac{x^2}{9} = 1$$

99. If $\vec{a}, \vec{b}, \vec{c}$ are vectors such that $\vec{a} + \vec{b} + \vec{c} = 0$ and $|\vec{a}| = 7, |\vec{b}| = 5, |\vec{c}| = 3$, then the angle between the vectors b and c is

100. If $a\hat{i} + \hat{j} + k\hat{i} + \hat{j} + c\hat{k}$, $(a \neq b \neq c \neq 1)$ are co-planar, then the value of $\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c}$ is

(B)
$$-\frac{1}{2}$$

(C)
$$\frac{1}{2}$$

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JMA HOUSE - 7, CHANDRALOK COLONY, INDORE (M.P.) Ph.: 0731 - 4236844 Visit us : www.jmaindore.com Let a,b and c be three vector having magnitudes 1, 1 and 2 respectively. If $\vec{a} \times (\vec{a} \times \vec{c}) - \vec{b} = 0$ then the acute angle between \vec{a} and \vec{c} is

(A)
$$\frac{\pi}{4}$$

(B)
$$\frac{\pi}{6}$$

(C)
$$\frac{\pi}{3}$$

(D) None of these



 $\vec{a}.\vec{b} + \vec{b}.\vec{c} + \vec{c}.\vec{a}$ is

(A)38

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Let $\vec{a}, \vec{b}, \vec{c}$ be vector such that $|\vec{a}| = 2, |\vec{b}| = 3, |\vec{c}| = 5$ and $\vec{a} + \vec{b} + \vec{c} = \vec{0}$. The value of

(B) -38

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(C) 19

(D) -19

103. If $\bar{a} = (\hat{i} + 2)$	$\hat{j} - 3\hat{k}$) and $\hat{b} = (3\hat{i} - \hat{j} + 2\hat{k})$	then the angle betwe	en $(a + b)$ and $(a - b)$ is
(A) $\frac{\pi}{3}$	(B) $\frac{\pi}{4}$	(C) $\frac{\pi}{2}$	(D) $\frac{2\pi}{3}$
104. The numb	per of elements in the po	wer set P(S) of the se	et S = [2, (1, 4)] is
(A) 2	(B) 4	(C) 8	(D) 10
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105. If (1 – x +	$(x^2)^n = a_0 + a_1x + a_2x^2 +$	+ a _{2n} x ²ⁿ , then a ₀	+ a ₂ + a ₄ + + a _{2n} is
(A) $\frac{3^n+1}{2}$	(B) $\frac{3^{n}-1}{2}$	(C) $\frac{1-3^n}{2}$	(D) $3^{n} + \frac{1}{2}$
There are n large that the	small cages and p small cages and p small cages and p small cannot be small cages and p	II animal (n < p < m) age. However, small	cages, one is each cage. The large animals are so animals can be put in any
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	B two sets containing f the A × B, each having		s respectively. The number
(A) 270	(B) 239	(C) 219	(D) 256
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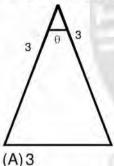
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- The slope of the function $f(x) = \begin{cases} x^2 \sin(\frac{1}{x}), & x \neq 0 \end{cases}$
 - (A) 1

(B) 0

(C) -1

- (D) None of these
- What is the largest area of an isosceles triangle with two edges of length 3? 109.



(B) 3/2 (C) 9

(D) 9/2

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- The value of \(\int x^3 \sin dx \) is
 - (A) $\pi^3 6\pi$
- (B) $-\pi^3 6\pi$
- (C) $-\pi^3 + 6\pi$
- (D) $\pi^3 + 6\pi$
- 111. let f(a) be a polynomial of degree four, having extreme value at x = 1 and x = 2. If $\lim_{x\to 0} \left[1 + \frac{f(x)}{x^2}\right] = 3$, then f(2) is
 - (A) 0

(B) 4

- (C) 8
- (D) -4

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- The maximum value of $4\sin^2 x + 3\cos^2 x + \sin x/2 + \cos x/2$ is 112.
 - (A) 4

- (B) $3+\sqrt{2}$
- (C)9

(D) $4+\sqrt{2}$



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113. The solution of
$$(e^x + 1)ydy = (y + 1)e^xdx$$
 is

$$(A) e^{x} = c(e^{x} + 1)(y + 1)$$

(B)
$$e^y = e^x + v + 1$$

$$(C)y = (e^x + 1)(y + 1)$$

(D) None of these

114. Evaluate $\int_0^1 x(1-x)^n dx$

(A)
$$\frac{-1}{(n+1)(n+2)}$$

(A)
$$\frac{-1}{(n+1)(n+2)}$$
 (B) $\frac{1}{(n+1)(n+2)}$

$$(C)(n+1)(n+2)$$

(C)
$$(n + 1) (n + 2)$$
 (D) $(n - 1) (n - 2)$

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- The critical point and nature for the function $f(x, y) = x^2 2x + 2y^2 + 4y 2$ is 115.
 - (a) (1, 1) maximum

(B) (1, -1) maximum

(C)(1, 1) minimum

(D) (1, -1) minimum

- 116. If $y = \cos^2 x^2$, find dy/dx
 - (A) 4x2 sinx2 cosx2

(B) -4x2 cosx2 sinx2

(C)2x sinx2 cosx2

- (D) -2x cosx2 sinx2
- The derivative of $(x^3 + e^x + 3^x + \cot x)$ with respect to x is 117.
 - $(A) 3x^2 + e^x + 3^x (log 3) cosec^2x$
 - (B) $3x^2 + e^x + 3^x(\log 3) + \csc^2 x$
 - $(C)3x^2 + e^x + 3^x(log 3) sec^2x$
 - $(D)3x^2 + e^x + 3^x(log 3) + sec^2x$

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- 118. The solution of the differential equation $\frac{dy}{dx} = e^{x+y} + x^2 e^y$ is

 - (A) $e^{x-y} + \frac{x^3}{3} + c$ (B) $e^x + e^{-y} + \frac{x^3}{3} + c$
 - (C) $e^x e^{-y} = \frac{x^3}{2} + c$

(D) None of these



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119. Differentiate [$-\log(\log x)$, x > 1] with respect to x

 $(A)-1/(x \log x)$

(B) 1/log x

(C) 1/x

(D) x log x

120. Evaluate $\lim_{x\to 0} \frac{x \tan x}{(1-\cos x)}$

(A) $\frac{1}{2}$

(B) $-\frac{1}{2}$

(C) -2

(D)2

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