# ENTRANCE EXAMINATION FOR ADMISSION, MAY 2013. M.C.A. (MASTER OF COMPUTER APPLICATIONS)

**COURSE CODE: 352** 

Signature o	
	f the Invigilator date)

Time: 2 Hours Max: 400 Marks

## Instructions to Candidates:

- Write your Register Number within the box provided on the top of this page and 1. fill in the page 1 of the answer sheet using pen.
- Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) or (E) in the relevant box of the ANSWER SHEET using HB pencil.
- Avoid blind guessing. A wrong answer will fetch you -1 mark and the correct answer will fetch 4 marks.
- Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- Do not open the question paper until the start signal is given.
- Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

Directions (For questions 1 to 6): In each of the following questions there is a certain relationship between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same kind of relation with this word as the words of given pair bear. Choose the correct alternative.

1. ANGLE: DEGREE::

(A) Area: square unit

(B) Milk: quart

(C) Society: classes

(D) Letter: alphabet

(E) None of the Above

2. CONFIRMED: INVETERATE::

(A) Knowledge: supposed

(B) Financial: bankrupt

(C) Immature: callow

(D) Credible: incredible

(E) None of the Above

3. PARENTHESIS: EXPLANATION::

(A) Ellipsis: omission

(B) Asterisk: exaggeration

(C) Synopsis: affectation

(D) Apostrophe: annotation

(E) None of the Above

4. CENSUS: POPULATION::

(A) Manifest: debts

(B) Roster: audience

(C) Itinerary: journeys

(D) Inventory: merchandise

(E) None of the Above

5. STANZA: POEM::

(A) Mimicry: pantomime

(B) Duet : chorus

(C) Act: opera

(D) Rhyme: verse

(E) None of the Above

6. DEMURE: CHURL:

(A) Hare-brained:savant

(B) Soothing: emollient

(C) Venal: greenery

(D) Diabolic: hoodoo

(E) None of the above

Directions (For questions 7 to 12): From amongst the four alternatives, choose the best answer whose meaning is closest to the meaning of the word in question. If nothing is appropriate, choose the last option.

RHINOPHYTONECROPHILIA	

- (A) Romancing the dead
- (B) One who is love with the undertaker
- One who likes smelling dead plants and flowers
- (D) One who summons ghosts
- **(E)** None of the above

### **PLEONASM**

(A) **Tautological**  (B) Chimerical

(C) Episodic . **Prismatic** 

None of the above  $(\mathbf{E})$ 

#### **APOTHECARY** 9.

- (A) Planet close to the Sun
- (B) Star closest to Earth

Coat hanger (C)

(D) Pharmacy

None of the above  $(\mathbf{E})$ 

#### NOSEGAY 10.

(A) Olfactory sensation (B) A bouquet of flowers

(C) Obnoxious person (D) Pungent smelling

 $(\mathbf{E})$ None of the above

#### 11. UNGUENT

- (A) An ointment or medicinal application (B) Uncle like

(C) Soporific (D) Sophomoric

 $(\mathbf{E})$ None of the above

# LUDICROUS

(A) Absurd

Clear **(B)** 

(C) Simple

Dismal **(D)** 

**(E)** None of the above Overlapping Start (13 => 15 = 3)

Directions (For questions 13 to 15): For each of the words below, a contextual usage is provide(D) Pick the word from the alternatives given that is most inappropriate in the given context.

<b>13</b> .	TEM	IPORAL: Do not get ter	npted by these ter	np	oral pleasures. They do not last long.
	(A)	Ephemeral	(]	3)	Immortal
	(C)	Everlasting	(1	<b>)</b> ) -	Eternal
	(E)	None of the above	·-·		
14.	FAT	UOUS: He is far too se	nsible to have don	e a	a fatuous thing like this.
	(A)	Stupid	(1	3)	Intelligent
	(C)	Inane	(]	))	Foolish
	(E)	None of the above	•		
15.		CABRE: The office word	e a macabre look	on	Friday after the company downsized
	(A)	Grisly	(1	3)	Gruesome
	(C)	Tropical	(]	))	Lugubrious
	<b>(E)</b>	None of the above	·	•	
	Over	lapping End (13 => 15	= 3)		
16.	(A) (C)	EQUIOUS servile fawning	·	3) <b>)</b> )	first supercilious
	(E)	None of the above			
17.		MINATION	· 		
	(A)	praise		3)	repetition
	(C)	escape	(1	<b>)</b> )	ratification
	(E)	None of the above	•		
18.	TOU	${f T}$	*		
	(A)	cast aspersions on	(]	3)	deny the relevance of
	(C)	misrepresent	(1	<b>)</b> )	withhold consent
	(E)	None of the above		•	•
19.	OUI	LANDISH			
	(A)	conventional	(	B)	prolific
٠	(C)	unchanging	(	D)	transparent
	<b>(E)</b>	None of the above			
÷			(	D)	transparent

20.	RAVEL		
	(A) knit	· (B	6) omit
	(C) remain silent	(D	)) measure
	(E) None of the above		
21.	PERSISTENCE		,
	(A) irrelevance	(B)	) inconstancy
	(C) inequality	(D)	) intemperance
	(E) None of the above	•	
22.	IGNOMINIOUS		
	(A) scholarly	(B)	) incognito
	(C) laudatory	( <b>D</b> )	) disgraceful
	(E) None of the above	•	
23.	CONTENTIOUS		
	(A) satisfied	(B)	) pacific
	(C) hungry	· (D)	) bellicose
	(E) None of the above		
24.	In his usual n (A) pensive	ast option. nanner, he had insure (B)	• •
	<ul><li>(C) indifferent</li><li>(E) None of the above</li></ul>	(D)	) circumspect
25.	always regarded him as a	· · · · · · · · · · · · · · · · · · ·	in order to achieve his goal; we
	(A) charm - insincere	(B)	) necromancy - pietistic
	(C) subterfuge – honest	( <b>D</b> )	) prestidigitation - articulate
	(E) None of the above		
26.		and the second s	have been responsible for the greatest proposition to
	(A) inventions - know-h		3) wars - viciousness
	(C) triumphs - civilizati	ions (D	) atrocities - development
	(E) None of the above		_
27.	fighting all these years. which have existed ever stand for; I invite my opp	We will work together since my opponent too oonent to	ing those changes for which I have been r to do away with the bureaucratic bogs ok office. Everyone of you knows what I
	(A) hand in his resigna	-	
	(C) make his stance cle	ar (D)	) get our city more federal aid
	(F) None of the above		

Directions (Questions X to X): Read the passages give below and answer the questions appropriate to the concerned passages.

Nine individuals - Z, Y, X, W, V, U, T, S and R - are the only candidates, who can serve on three committees - A, B and C The following are the rules regarding to constituting the committees:

- Each candidate should serve on exactly one of the committees.
- Committee A should consist of exactly one member more than committee (B)
- It is possible that there are no members of committee (C)
- Among Z, Y and X none can serve on committee (A)

	Among W, V and U none can serve on committee (B)				
	•	Among T, S and R none can serve			
	Witl	h the above base information answe			
28.		ase T and Z are the individuals seviduals should serve on committee	_	committee B, how many of the nine	
	(A)	3	(B)	4	
	(C)	5		6	
	(E)	None of the above	( <b>D</b> )	· ·	
29.	Of tl	he nine individuals, the largest nur	nber that	can serve together on committee C is	
	(A)	9	(B)		
	(C)	7	(D)	6	
	<b>(E)</b>	None of the above			
30.		ase R is the only individual servinuld serve on committee A?	g on com	mittee B, which among the following	
	(A)	W and S	(B)	V and U	
	(C)	T and S	( <b>D</b> )	U and S	
	(E)	None of the above			
31.		ase any of the nine individuals serv ald be the candidate to serve on con		nmittee C, which among the following	
	(A)	${f Z}$	(B)	Y	
	(C)	W	(D)	T	
	(E)	None of the above			
32.		case T, S and X are the only in abership of committee C should be:	dividuals	serving on committee B, the total	
	(A)	Z and Y	(B)	Z and W	
	(C)	Y and V	(D)	Y and U	
	<b>(E)</b>	None of the above			
33.		ong the following combinations mittee C?	which co	ould constitute the membership of	
		Y and T	<b>(B)</b>	X and U	
		Y, X and W	(D)	W, V and U	
	<b>(E)</b>	None of the above			
352			6		

In an experiment conducted at a laboratory, 160 white mice were injected with Serum D 160 other white mice were injected with a harmless sugar solution. In two weeks time 39% of the white mice, who were injected with Serum D contracted the highly contagious and often fatal disease, jungle fever. Hence, it can be concluded that jungle fever is caused by some elements similar to the elements in Serum D

With the above base information answer the following questions:

- 34. The above discussion would be weakened most severely in case it is shown that
  - (A) People contracting jungle fever are usually the victims of the bite of the South American Lesser Hooded Viper.
  - (B) One among the 160 white mice had already contracted jungle fever prior to the laboratory experiment.
  - (C) The natural habitats of white mice does not contain any of the elements found in Serum D
  - (D) The scientists administered the injections being ignorant of the contents of the solutions used
  - (E) None of the above.
- 35. The above argument would be highly empowered in case it were shown that:
  - (A) Some of the elements in Serum D are extracted from the root of a certain poisonous jungle wildflower.
  - (B) Invariably the blood of the victims of jungle fever victims contains a high level of a certain toxic substance also found in serum D
  - (C) Almost all the white mice died within a period of two days after the first symptoms appeared
  - (D) Normally the rate of jungle fever among white mice is less than 0.01%.
  - (E) None of the above.
- 36. Distribution of leaflets and delivering speeches on government property should be outlawed. Radicals and fanatics have no right to use public property when peddling their unsavory views.

The argument above is based on the postulate

- (A) The general public has a special concern in the free exchange of different political views.
- (B) Every person who hands out leaflets and delivers speeches is a radical or fanati C
- (C) Radicals and fanatics prefer the use of public property while propagating their viewpoint.
- (D) Legal constraints which are applicable to one group need not be equally applicable to all.
- (E) None of the above

37. No national productivity measures are available for underground industries that may exist but remain unreported d. On the other hand, at least some industries that are run entirely by self-employed industrialists are included in national productivity measures.

From the information given above, it can be validly concluded that,

- (A) There are at least some industries run entirely by self-employed industrialists that are underground industries
- (B) No industries that are run entirely by self-employed industrialists operate underground
- (C) There are at least some industries other than those run entirely by self-employed industrialists that are underground industries
- (D) There are at least some industries run entirely by self-employed industrialists that are not underground industries
- (E) None of the above
- 38. Sally has never received a violation from the Federal Aviation Administration during her 16-year flying career. Sally must be a great pilot.

Which of the following can be said about the reasoning above?

- (A) The definitions of the terms create ambiguity.
- (B) The argument uses circular reasoning.
- (C) The argument works by analogy.
- (D) The argument is built upon hidden assumptions.
- (E) None of the above.
- 39. Cars are safer than planes. Fifty percent of plane accidents result in death, while only one percent of car accidents result in death.

Which of the following, if true, would most seriously weaken the argument above?

- (A) Planes are inspected more often than cars.
- (B) The number of car accidents is several hundred thousand times higher than the number of plane accidents.
- (C) Pilots never fly under the influence of alcohol, while car drivers often do.
- (D) Plane accidents are usually the fault of air traffic controllers, not pilots.
- (E) None of the above.
- 40. Dear Editor: I feel obliged to comment on the unfair review you published last week written by Robert Duxbury. Your readers should know that Mr. Duxbury recently published his own book that covered the same topic as my book, which you asked him to review. It is regrettable that Mr. Duxbury should feel the need to belittle a competing work in the hope of elevating his own book.

The author of the letter above makes her point by employing which method of argument?

- (A) Attacking the motives of the author of the unfavorable review.
- (B) Attacking the book on the same topic written by the author of the review.
- (C) Contrasting her own book with that written by the author of the review.
- (D) Questioning the judgment of the author of the unfavorable review.
- (E) None of the above.

41. Many people argue that the death penalty deters murder. However, the notorious killer Ned Grandy deliberately moved to a state that imposes the death penalty just before embarking on a series of ferocious murders. Thus, it seems clear that the existence of the death penalty does not serve as a deterrent to murder.

The argument above may best be characterized as:

- (A) an appeal to emotion.
- (B) a flawed analogy.
- (C) a general conclusion based on a specific example.
- (D) circular reasoning.
- (E) None of the above.

### 42. Consider the following:

- James weighs more than Kelly.
- Luis weighs more than Mark.
- Mark weighs less than Ned
- Kelly and Ned are exactly the same weight.

If the information above is true, which of the following must also be true?

- (A) Luis weighs more than Ned
- (B) Luis weighs more than James.
- (C) Kelly weighs less than Luis
- (D) James weighs more than Mark
- (E) None of the above.
- 43. Man: I've heard that the new Chemistry class is really difficult.

Woman: Oh, I wouldn't say that.I took Chemistry 402 last quarter, and I think the course went very smoothly.

Question: What does the woman mean?

- (A) The chemistry class is very tough.
- (B) The chemistry class is not teaching this quarter.
- (C) The chemistry class is easier than the man thinks.
- (D) The chemistry class should be avoided if possible.
- (E) None of the above.
- 44. Woman: I've heard great things about that movie that just came out. You want to go see it tonight?

Man: I'd love to, but I've got a history final in two days, and I haven't studied all quarter. I think I'd better take a rain check this time.

What does the man mean?

- (A) He needs to take a break from his studying.
- (B) He loves the woman very much.
- (C) He doesn't like going out in the rain.
- (D) He will not be able to accompany the woman.
- (E) None of the above.

Woman: The milk in the refrigerator is sour. I don't think it's drinkable.

Man: No joke. The expiration date was three weeks ago.

Question: What does the man imply?

- The woman has an extremely sour disposition.
- (B) They need to replace the refrigerator.
- (C) The woman is just kidding.
- It's not surprising the milk has ruined (D)
- **(E)** None of the above.

Directions (Questions X to X): Observe the series of patterns given in each question and find the appropriate one which can replace the concern Question Mark.

46. Which letter replaces the question mark?

6	4	4	1
4	N	L	7
5	U	?	1
6	10	14	2

(A)

(B) Q

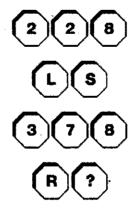
 $\mathbf{R}$ (C)

(D) S

- (E) None of the above.

47.

Which letter replaces the question mark?



(A) S (B) M

(C) U (D) P

**(E)** None of the above. 48.

Which number replaces the question mark?

6		1
L	P	D
2		4

5		1
j	М	C
2		3





(A) 1

(B) 2

(C) 3

(D) 4

(E) None of the above.

**49**.

Which letter replaces the question mark?

- 3 P 8
- 9 G 11
- 2 U 4
- 3 W 1
- 7 ? 18
- (A) Q

(B) B

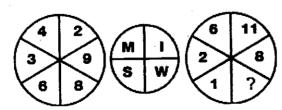
(C) S

(D) K

(E) None of the above.

50.

Which number replaces the question mark?



(A) 1

(B) 2

(C) 3

(D) 4

(E) None of the above.

Directions (Questions 51 to 54): Choose the odd one out from the following series of patterns.

- 51. 3, 5, 11, 14, 17, 21
  - (A) 21

(B) 17

(C) 14

(D) 3

- (E) None of the above.
- 52. 8, 27, 64, 100, 125, 216, 343
  - (A) 27

(B) 100

(C) 125

(D) 343

- (E) None of the above.
- 53. 10, 25, 45, 54, 60, 75, 80
  - (A) 10

(B) 45

(C) 54

(D) 75

- (E) None of the above.
- 54. 396, 462, 572, 396, 427, 671, 264
  - (A) 396

(B) 427

(C) 671

(D) 264

(E) None of the above.

Directions (Questions 55 to 60): For each question, compare between the given Two quantities and choose the appropriate answer from the given options.

55. Quantity A: (-6)<sup>4</sup>

Quantity B: (-6)<sup>5</sup>

- (A) Quantity A is greater
- (B) Quantity B is greater
- (C) Two quantities are equal
- (D) The relationship cannot be determined from the information given
- (E) None of the above
- 56. Quantity A: Time to travel 95 miles at 50 miles per hour

Quantity B: Time to travel 125 miles at 60 miles per hour

- (A) Quantity A is greater
- (B) Quantity A equals Quantity B
- (C) Quantity B is greater
- (D) The relationship cannot be determined from the information given
- (E) None of the above
- 57. Quantity A: (9/13)<sup>2</sup>

Quantity B: (9/13)1/2

- (A) Quantity A equals Quantity B
- (B) The relationship cannot be determined from the information given
- (C) Quantity B is greater
- (D) Quantity A is greater
- (E) None of the above

Quantity A: 4/100 58.

Quantity B: 0.012/3

- (A) Quantity B is greater
- Quantity A equals Quantity B (B)
- (C) Quantity A is greater
- The relationship cannot be determined from the information given **(D)**
- None of the above **(E)**

59. x = 2y + 3

y = -2

Quantity A: x

Quantity B: -1

- Quantity in Column A is greater (A)
- Quantity in Column B is greater **(B)**
- The two quantities are equal (C)
- The relationship cannot be determined from the information given **(D)**
- **(E)** None of the above

60.

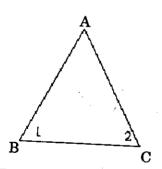


Diagram is illustrative and is not drawn to scale.

Given AB = AC and angle BAC =  $60^{\circ}$ 

Quantity A: Length of side AB

Quantity B: Length of side BC

- Quantity A equals Quantity B (A)
- Quantity B is greater (B)
- The relationship cannot be determined from the information given (C)
- Quantity A is greater (D)
- (E) None of the above

If the radius of a circle is increased by 20	% then	the area is increased by
· · · · · · · · · · · · · · · · · · ·		120%
	-	40%
	(-)	
(-)		
A plot of land is in the shape of a trapezi	um wh	ose dimensions are given in the figure
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ropo dimensiones are Bright in one right.
. 0 m		
<u></u>		
13 m		•
12 m		
-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\		
E		•
		•
	(T)	
	-	64 m
	(D)	84 m
(E) None of the above		•
Lengths for the triangle below are given	m teet.	. What is the value of x?
<u>2√3</u>		
30°		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
600	-	
(A) 2	<b>(B)</b>	√3
(C) 4	(D)	5
(E) None of the above		
Occuracy of Stant (64 × 50 × 11)		
Overlapping Start (04 => 13 = 11)		
A person starts multiplying consecuti	ive nos	sitive integers from 20 How many
numbers should be multiply before the w	rill hav	re result that will end with 3 zeroes?
numbers should he multiply before the w (A) 11	vill hav (B)	re result that will end with 3 zeroes?
	(A) 44% (C) 144% (E) None of the above  A plot of land is in the shape of a trapezi below:  A plot of land is in the shape of a trapezi below:  A plot of land is in the shape of a trapezi below:  A plot of land is in the shape of a trapezi below:  A plot of land is in the shape of a trapezi below:  (B) Mark B C C  (C) 4 (E) None of the above  Overlapping Start (64 => 73 = 11)	(C) 144% (E) None of the above  A plot of land is in the shape of a trapezium wholelow:  A plot of land is in the shape of a trapezium wholelow:  A plot of land is in the shape of a trapezium wholelow:  A plot of land is in the shape of a trapezium wholelow:  B property and B

What is the reminder when  $91 + 92 + 93 + \dots + 99$  is divided by 6?

(A) 0 (B) 3

, (C)

(D) 2

None of the above

How many numbers are there between 100 and 1000 such that atleast one of their digits is 6?

(A) **64**8

**(B)** 258

(C) 654 **(D)** 252

None of the above

67.	Find (A) (C) (E)	the sum of all the integers which are 8729 8428 None of the above	multi (B) (D)	iples of 7 and lie between 200 and 400. 8700 8438
68.	the			surface area of B is 300% higher than to be k% lower than the volume of B.
	(A)	85.5	(B)	92.5
	(C)	90.5	( <b>D</b> )	87.5
٠	( <b>E</b> )	None of the above		
69.	wro		g a qu	nark for a correct answer, -1/3 for a nestion. If the net score of a student is by that student cannot be less than 12
70.	,	$v$ many even integers n, where $100 \le n$	≤ 200	, are divisible neither by seven nor by
	(A)	40	(B)	37
	(C)	39	(D)	38
	(E)	None of the above		
71.	Let	g(x) = max(5 - x, x + 2). The smallest p	ossib	le value of g(x) is
	( <b>A</b> )	4.0	(B)	4.5
	(C)	1.5	(D)	3.5
	<b>(E)</b>	None of the above		
72.		en that $-1 \le v \le 1$ , $-2 \le u \le -0.5$ and $-2$ wing is necessarily true?	≤ <b>z</b> ≤	-0.5 and $w = vz/u$ , then which of the
	(A)	$-0.5 \le w \le 2$	(B)	$-4 \le w \le 4$
	(C)	$-4 \le w \le 2$	(D)	$-2 \le w \le -0.5$
	<b>(E)</b>	None of the above		·
73.		many three digit positive integers, w unit's place respectively, exist such th 245 240 None of the above		igits x, y and z in the hundred's, ten's $x, y, z < y$ and $x \ne 0$ ?  285  320
	_			
74.	that			459,467) and S be a subset of T such  The maximum possible number of
	(A)	32	<b>(B)</b>	28
	(C)	29	(D)	30
	<b>(E)</b>	None of the above		

Overlapping End  $(64 \Rightarrow 74 = 11)$ Already Overlapping End  $(13 \Rightarrow 15 \Rightarrow 3)$ So, Total overlapping is equal to 11 + 3 = 14. The average of 5 quantities is 6. The average of 3 of them is 8. What is the average of the remaining two numbers? (A) 6.5 (B) (D) 3.5 (C) None of the above  $(\mathbf{E})$ The average age of a family of 5 members is 20 years. If the age of the youngest member be 10 years then what was the average age of the family at the time of the birth of the youngest member? (A) 13.5 (B) 14 15 (D) 12.5 (C) **(E)** None of the above If ABC is a right angle triangle with angle A = 900 and 2s = a + b + c, where a > b > cwhere notations have their usual meanings, then which one of the following is Correct? (A) (s-b)(s-c) > s(s-a)(B) (s-a)(s-c) > s(s-b)(C) (s-a)(s-b) < s(s-c)(D) 4s(s-a)(s-b)(s-c) = bcNone of the above Daal is now being sold at Rs. 20 per kg. During last month, its rate was Rs. 16 per kg. By how much percent should a family reduce its consumption so as to keep the expenditure fixed? (A) 15 **(B)** 18 20 (C) (D) 33 (E) None of the above Find the least value of 3x + 4y if x2y3 = 6. (A) 15 (B) 8 (C) 10 (D) 12 None of the above (E) One fast typist type some matter in 2hrs and another slow typist type the same matter in 3hrs. If both do combine in how much time they will finish? (A) 1hr 14 mints 1hr 18 mints **(B)** (C) 1hr 12 mints (D) 1hr 02 mints

(E) None of the above

01.	(A)	64	(B)	128
	(C)	192	(D)	204
	(E)	None of the above		
82.	In a	fraction, if 1 is added to both the n	umer	ator at the denominator, the fraction
	beco	mes 1/2. If numerator is subtracted fi	rom t	he denominator, the fraction becomes
	3/4.	Find the fraction.		
	(A)	6/5	(B)	1/5
	(C)	3/7	( <b>D</b> )	7/8
	(E)	None of the above	·	
83.	Five	years ago, Beth's age was three times	that	of Amy. Ten years ago, Beth's age was
	one	half that of Chelsea. If C represents C	helse	a's current age, which of the following
	repr	esents Amy's current age?		
	(A)	c/6 + 5	(B)	2c
	(C)	(c-10)/3	(D)	· 3c-5
	(E)	None of the above		
84.	A pe	erson who decided to go weekend trip	shoul	d not exceed 8 hours driving in a day
	Ave	rage speed of forward journey is 40 i	mph.	due to traffic in sundays, the return
	jour	ney average speed is 30 mph. how far	he cai	n select a picnic spot
	(A)	90 miles	( <b>B</b> )	120 miles
	(C)	115 miles	(D)	112 miles
	(E)	None of the above		
85.	The	monthly incomes of A and B are in th	e rati	to 4:5, their expenses are in the ratio
	5:6.	If 'A' saves Rs.25 per month and 'I	3' sav	es Rs.50 per month, what are their
	resp	ective incomes?		
٠	(A)	Rs.400 and Rs.500	(B)	Rs.240 and Rs.300
	(C)	Rs.320 and Rs.400	(D)	Rs.440 and Rs.550
•	(E)	None of the above	•	

86.	Whi	ch of the following features are im	plemente	d directly by virtual memory?			
	(i)	A larger virtual address space tha	an physic	al memory			
	(ii)	Allow multiple processes to share	a physic	al memory			
	(iii)	Higher bandwidth access to disk					
	(iv)	A larger number of auto vectored	interrup	ts			
	(v)	Protection between processes					
	(A)	i, ii & iii	(B)	i, ii,v			
	(C)	i, ii, iv	(D)	i, iv, v			
	<b>(E)</b>	None of the above					
87.	How	many bits are required to address	a 4M x 3	32-bit main memory if,			
	(i). I	Main memory is word-addressable (	ii). Main	memory is byte-addressable			
	(A)	22, 24	(B)	24, 22			
	(C)	22, 22	( <b>D</b> )	24,24			
	(E)	None of the above					
88.	What will be the output of the following program?						
	#include <stdio.h></stdio.h>						
	main()						
	{ float a=12,b=12;						
		= b)					
		.tf("\n a and b are equal ");					
	}	•					
	(A)	Nothing will be printed	(B)	a and b are equal			
	(C)	compilation error	( <b>D</b> )	Syntax error			
	(E)	None of the above		· ·			
89.	What will be the output of the following program?						
		#include <stdio.h></stdio.h>					
	main()						
	{static char a[]="Bombay";						
		r *b="Bombay";					
		.tf("%d %d",sizeof(a),sizeof(b));					
	}	• • • • • • • • • • • • • • • • • • • •		•			
•	, (A)	16	(B)	11			
	(C)	2 2	(D)	<b>7 2</b>			
		None of the above					

90.	The open source language used with Mozilla is							
	(A)	M++	(B)	XUL				
	(C)	Mo Basic	(D)	All of the above				
	(E)	None of the above						
91.	Thunder bird is a							
	(A)	Spreadsheet application	( <u>B</u> )	Debugging tool				
	(C)	Testing Tool	( <b>D</b> )	E-mail client	•			
	<b>(E)</b>	None of the above						
92.	If R=(A,B,C,D,E) with AB as the primary key and F=(B->F, A->C, AB->DE, AB->F),							
		n the relation is in normal		a .				
	(A)	First	(B)	Second	•			
	(C)	Third	(D)	All of the above	•			
	(E)	None of the above						
93.	In a FCFS Disk Scheduling, Consider, a disk queue with requests for I/O to blocks							
	on cylinders in the order 98,183, 37,122, 14,124, 65, 67. Make an assumption that disk							
	head	l is initially at cylinder 53, Then th	e total he	ead movement involve	d is			
	(A)	640	(B)	740				
	(C)	840	(D)	940				
	<b>(E)</b>	None of the above						
	Overlapping End $(86 \Rightarrow 93 \Rightarrow 8)$							
	Already Overlapping End (13 => 15 = 3)							
	Already Overlapping End (64 => 74 = 11)							
	So, Total overlapping is equal to $8+3+11=22$ .							
94.	What will be the output of the following program?							
	#include <stdio.h></stdio.h>							
	#def	fine PRODUCT(x) (x*x)			•			
	mai	<b>n</b> ()		•				
	{							
	int i	=3,j=0,k=0;			•			
	clrs	er();	•					
	j=PRODUCT(i++);							
	k=P							
	prin	itf("%d %d ",j,k);						
	}	<del>~</del> · · ·	•					
	(A)	9 49	(B)	49 9				
	(C)	9 9	(D)	0 0				
	(13)	NTC-1.	` ′					

95.	Business Intelligence is the industrial terminology for  (A) Data Structures (B) Database normalization						
	(C)	Data encryption	(D)	Neural Networks			
	(E)	None of the above	( <b>D</b> )	Neural Networks			
				•			
96.	On a movable-head system, the time it takes to position the head at the track is						
	knov	vn as					
	(A)	Latency time	(B)	Transfer Time			
	(C)	Rotational Delay	(D)	seek time			
	(E)	None of the above					
97.	Which is not true in the following?						
	(A)	<u> </u>					
	(B)						
	(C)						
	(D)						
	(E)	None of the above.					
			•				
98.	Half	Half-adder is also known as					
	(A)	AND gate	(B)	NAND gate			
•	(C)	NOR gate	(D)	XOR gate			
	(E)	None of the above					
99.	Trap door						
	(A)	Could be included in a compiler	-				
	(B)						
	(C)						
	(D)	Both A and B		•			
	(E)	None of the above					
100	Every BCNF decomposition is						
200.	(A)	Dependency preserving	(B)	Not dependency preserving			
	(C)	Need to be dependency preserving	(D)	All of the above			
		•	( <b>L</b> )	THI OF THE ADOVE			
	$(\mathbf{E})$	None of the above					