ENTRANCE EXAMINATION FOR ADMISSION, MAY 2012.

M.C.A. (MASTER OF COMPUTER APPLICATIONS)

COURSE CODE: 352

Register Number :		
		Signature of the Invigilator (with date)
	si thada	

COURSE CODE: 352

Time: 2 Hours Max: 400 Marks

Instructions to Candidates:

- Write your Register Number within the box provided on the top of this page and 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.
- 3. Read each of the question carefully and shade the relevant answer (A) or (B) or (C) or (D) or (E) in the relevant box of the ANSWER SHEET <u>using HB pencil</u>.
- 4. Avoid blind guessing. A wrong answer will fetch you −1 mark and the correct answer will fetch 4 marks.
- 5. Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- 6. 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.
- 8. 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.

1.		sum of numerator a nerator and 2 is subtra			If 1 is added to the s 2/3. The fraction is
	(A)	5/6	(B)	6/5	
	(C)	3/8	(D)	8/3	
	(E)	None of the above			
0	TC /1	11:			
2.		ne selling price of an ar		3	in the transaction is
	(A)	16 × 2/3%	(B)	$20 \times 1/2\%$	
	(C)	$25 \times 1/2\%$	(D)	$33 \times 1/3\%$	
	(E)	None of the above			
3.	oper				spectively. If they are many hours, the tank
	(A)	4	(B)	$4 \times 1/2$	
	(C)	5	(D)	$5 \times 1/2$	
	(E)	None of the above			
4.		area of a circle inscrib ne triangle	oed in an equilateral t	riangle is 154 cr	n ² . Find the perimeter
	(A)	71.5 cm	(B)	71.7 cm	
	(C)	72.3 cm	(D)	72.7 cm	
	(E)	None of the above			
5.		ne area of three adjace volume is 9000cu.cm, th			the ratio of 2:3:4 and
	(A)	10 cm	(B)	15 cm	
	(C)	20 cm	(D)	30 cm	
	(E)	None of the above			
6.	the	second customer he se comer he sells half of w ak any eggs. In the en	lls half of what he had that he had then left :	d left and half a and half an egg.	gs and half an egg. To n egg, and to the third By the way he did not nany did he start out
	(A)	29	(B)	31	
	(C)	33	(D)	35	
	(E)	None of the above	o rate official res		
7.		ay was Lakshmi's birt n Lakshmi was as old			
	(A)	19	(B)	18	
	(C)	17		16	
	(E)	None of the above			

8.	the	re is a number, the number was divided aber?								
	(A)	84		(B)	73					
	(C)	62		(D)	95					
	(E)	None of the above				of the above				
9.	coul	a sports day, if 30 d be formed. If 24 d be formed?								
	(A)	20		(B)	22					
	(C)	29		(D)	452					
	(E)	None of the above								
4.0	D	00 1 1 1 11	D 000 1	C		3371				
10.	Rs. 20 is the true discount on Rs. 260 due after a certain time. What will be the true discount on the same sum due after half of the former time, the rate of interest being the same?									
	(A)	Rs. 10		(B)	Rs. 10.40)				
	(C)	Rs. 15.20		(D)	Rs. 13					
		None of the above		1 110						
11.	betv	ratio between the p ween Q's present ag sent ages ?								
	(A)	46 years		(B)	48 years					
	(C)	52 years		(D)	56 years					
	(E)	None of the above								
12.	Find the odd man out: 385, 462, 572, 427, 671 and 264									
	(A)	385		(B)	671					
	(C)	427		(D)	264					
	(E)	None of the above		(-)						
19	Find out the wrong number in the sequence: 3, 5, 12, 39, 154, 772, 4634									
13.			nber in the sequer			104, 112, 40	104			
	(A)	39		(B)	154					
	(C)	5		(D)	3					
	(E)	None of the above								
14.	A cl	ock is started at no	on. By 10 minutes	past 5	, the hour	hand has t	urned th	rough		
	(A)	145°		(B)	150°					
	(C)	155°		(D)	160°					
	(E)	None of the above								

15.	In how many different ways can the letters of the word 'JUDGE' be arranged in such
	a way that the vowels always come together?

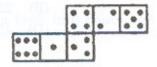
(A) 48

(B) 120

(C) 124

(D) 160

- (E) None of the above
- 16. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



(A) 2

(B) 4

(C) 5

(D) 6

- (E) None of the above
- 17. Three positions of a dice are given. Find out which number is found opposite to the number $\dot{2}$ in the given cube.



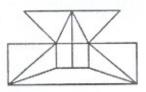
(A) 6

(B) 5

(C) 3

(D) 1

- (E) None of the above
- 18. Find the minimum number of straight lines required to make the given figure.



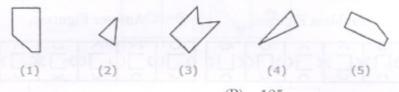
(A) 16

(B) 17

(C) 18

(D) 19

19. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.



(A) 124

(B) 125

(C) 234

(D) 245

- (E) None of the above
- Choose the alternative which is closely resembles the mirror image of the given combination.

Nu56p7uR (1) Nu26q7uR (2) Nn7q62nN (3) Nu7q62uN (4) Nu7d92uN

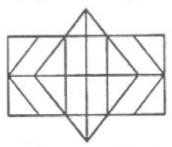
(A) 1

(B) 2

(C) 3

(D) 4

- (E) None of the above
- 21. Determine the number of rectangles and hexagons in the given figure.



(A) 30, 5

(B) 32, 3

(C) 28, 5

(D) 30, 3

- (E) None of the above
- 22. Find out the alternative figure which contains figure (X) as its part.



- (X)
- (1)
- (2)
- (3) (4)

(A) 1

(B)

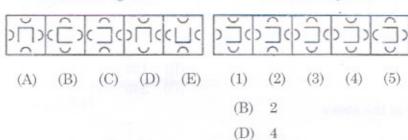
(C) 3

(D) 4

23. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures:

Answer Figures:



(E) None of the above

(A) 1

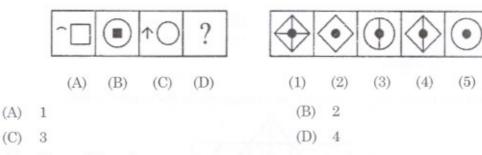
(C)

(C)

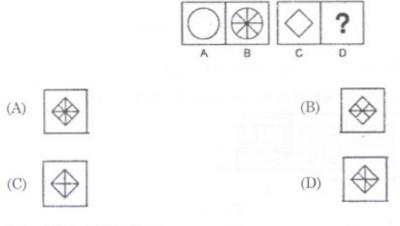
Select a suitable figure from the Answer Figures that would replace the question 24. mark (?).

Problem Figures:

Answer Figures:

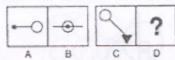


- None of the above (E)
- Select the figure from the set of answer figures which would replace the sign of 25. question mark (?).

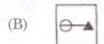


None of the above

26. Select the figure from the set of answer figures which would replace the sign of question mark (?).



(A)

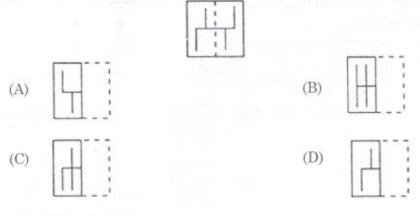


(C) **%**



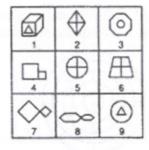
(E) None of the above

27. One out of these four options resembles the figure which is obtained by folding transparent sheet along the dotted line.



(E) None of the above

28. Group the given figures into three classes using each figure only once.

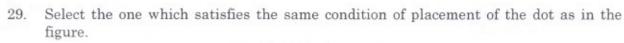


(A) 1,3,9; 2,5,6; 4,7,8

(B) 1, 3, 9; 2,7,8; 4,5, 6

(C) 1, 2, 4; 3,5,7; 6,8,9

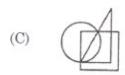
(D) 1, 3, 6; 2,4,8; 5,7,9







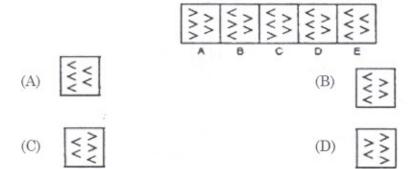






(E) None of the above

30. Select one figure from the Answer figures which will continue the same series as given in the Problem figures.



(E) None of the above

31. What is the minimum number of different colours required to paint he given figure such that no two adjacent regions have the same colour?



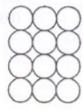
(A) 3

(B) 4

(C) 5

(D) 6

32. In the adjoining figure, if the centres of all the circles are joined by horizontal and vertical lines, then find the number of squares that can be formed.



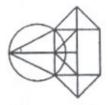
(A) 6

(B) 7

(C) 8

(D) 1

- (E) None of the above
- 33. Find the number of triangles in the given figure.



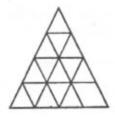
(A) 10

(B) 12

(C) 14

(D) 16

- (E) None of the above
- 34. Find the minimum number of straight lines required to make the given figure.



(A) 9

(B) 11

(C) 15

(D) 16

- (E) None of the above
- 35. Find the number of triangles in the given figure.



(A) 5

(B) 6

(C) 8

(D) 10

- 36. Synonyms: RESTIVE
 - (A) Restful
 - (C) Crucial
 - (E) None of the above

- (B) Restless
- (D) Pause

- 37. Synonyms: CRAVEN
 - (A) Cowardly
 - (C) Politely
 - (E) None of the above

- (B) Laziness
- (D) Arrogant

- 38. Antonyms: PERFIDY
 - (A) To impure
 - (C) Purification
 - (E) None of the above

- (B) Thoroughness
- (D) Loyalty

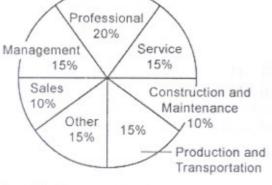
- 39. Antonyms: EFFICACY
 - (A) Strange
 - (C) Inefficiency
 - (E) None of the above

- (B) Well-known
- (D) Effectiveness

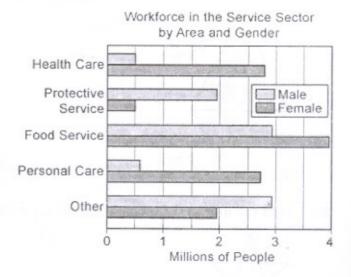
[For Questions 40-42]

WORKFORCE OF COUNTRY X

Percent Distribution of Workforce by Employment Sector



Total Workforce: 140 million people



- 40. Approximately how many people are in the production and transportation sector of the workforce?
 - (A) 9 million

(B) 12 million

(C) 15 million

(D) 21 million

41.		roximately what fraction of or is male?	of the workforce	in the food service area of the service						
	(A)	1/4	(B)	1/3						
	(C)	3/7	(D)	4/7						
	(E)	None of the above								
42.	sam Whi	e for the sales sector as it ch of the following is closes	is for the protects to the number of	nales to the number of females is the tive service area of the service sector of females in the sales sector?						
	(A)	2.9 million	(B)							
	(C)	10.4 million	(D)	11.1 million						
	(E)	None of the above								
	[For	Questions $43-47$]								
	Seve	en persons live in a street,	having houses in	line. Consider the following:						
	1. A	lives in the corner's house								
	2. C is between E and G									
	3. There is 1 house between D and F									
	4. F is neighbor of G									
	5. T	here are two houses betwe	en A and G							
43.	Who lives in the second corner?									
	(A)	В	(B)	C						
	(C)	D	(D)	E						
	(E)	None of the above								
44.	Who lives in the middle?									
	(A)	C	(B)	D						
	(C)	G	(D)	F						
	(E)	None of the above								
45.	Who	o lives between B and G?								
	(A)	C	(B)	D						
	(C)	E	(D)	F						
	(E)	None of the above								
46.		is neighbor of A?								
	(A)	В	(B)	G						
	(C)	E	(D)	F						
	(E)	None of the above								

47.	The	re are houses between	B and E?						
	(A)	0	(B)	1					
	(C)	2	(D)	3					
	(E)	None of the above							
	[For	Questions $48-52$]							
	Stat	ement: In a group of five persons A	A,B,C,D, a	and E					
	(a)	A and C are intelligent in English	n and Rea	asoning.					
	(b)	B and C are intelligent in English	n and Ger	neral Awareness.					
	(c)	E and D are intelligent in Arithm	etic and	Interview.					
	(d)	E is intelligent in Interview, reasoning and Arithmetic.							
	(e)	B and D are intelligent in Arithm	netic and	General Awareness.					
48.	Who	is intelligent in English, arithmet	ic, and ge	eneral awareness?					
	(A)	A	(B)	В					
	(C)	C	(D)	D					
	(E)	None of the above							
49.	Who	is intelligent in English and reaso	oning but	not in general awareness?					
	(A)	A	(B)	В					
	(C)	C	(D)	D					
	(E)	None of the above							
50.	Who	is intelligent in Arithmetic, Gener	ral Aware	eness and Interview?					
	(A)	A	(B)	В					
	(C)	C	(D)	D					
	(E)	None of the above							
51.	Who	is intelligent in English General A	Awarenes	ss and Reasoning?					
	(A)	A	(B)	В					
	(C)	C	(D)	D					
	(E)	None of the above							
52.	Who	is intelligent in Arithmetic, Reaso	oning and	Interview?					
	(A)	C	(B)	В					
	(C)	E	(D)	D					
	(E)	None of the above							

[For Questions 53 - 56]

Who must be a Zulu?

None of the above

58.

(A)

(C)

(E)

A

Statement: Five persons A, B, C, D and E were traveling in a car. They were two ladies in the group. Of them who knew the car driving one was a lady. A is brother of D. B wife of D, drove at the beginning. E driven at the end.

53.	Whi	ch of the following is a pair of brother	s?	
	(A)	AD	(B)	DE
	(C)	CA	(D)	CD
	(E)	None of the above		
54.	Who	was the other lady in the group?		
	(A)	AE	(B)	В
	(C)	C	(D)	D
	(E)	None of the above		
55.		he case of which the following pairs, in the group?	no rel	ationship can be established with one
	(A)	CE	(B)	DE
	(C)	CA	(D)	CD
	(E)	None of the above		
56.	Hov	v was E related to A?		
	(A)	Brother	(B)	Sister
	(C)	Wife	(D)	Father
	(E)	None of the above		
	[For	Questions 57 – 58]		
	pers	sons A, B& C. A met B and says "I an	n a Zu	tus always speak lies. There are three lu or I am Hutu". We don't know wha at "A is a Zulu". Then C replied "No, A
57.	Hov	v many Zulus are there?		
	(A)	1	(B)	2
	(C)	3	(D)	4
	(E)	None of the above		

(B)

(D) D

В

59. In a total of 36 vehicles after one car there is one scooter. After 2nd car there will be two scooters and after 3rd car there will be 3 scooters so on , then find the number of scooters in the right half of arrangement. (A) 11 (B) 12 (C) 13 (D) 14 (E) None of the above Statement: Sachin wrote to his brother at Bangalore to collect personally the application form from the University for the Post-graduation Course in Mathematics. Assumptions: The University may issue application forms to a person other than the I. prospective student. Sachin's brother may receive the letter well before the last date of collecting II. application forms. (A) Only assumption I is implicit Only assumption II is implicit (B) Either I or II is implicit (C) (D) Both I and II are implicit (E) None of the above Statement: There is an unprecedented increase in the production of wheat this kharif season in most parts of the country. Courses of Action: The government should immediately lower down the procurement price of II. The farmers should be asked to store the excess produces with themselves to be used for future. III. The government should make its best efforts to export wheat to augment its presence in international market. Only I and II follow (B) Only II and III follow (A) Only I and III follow (D) All follow (C) None of the above (E) Statements: In a recent survey report, it has been stated that those who undertake 62. physical exercise for at least half an hour a day are less prone to have any heart ailments. Conclusions: Moderate level of physical exercise is necessary for leading a healthy life. II. All people who do desk-bound jobs definitely suffer from heart ailments. Only conclusion I follows (A) (B) Only conclusion II follows Either I or II follows (D) Neither I nor II follows (C)

(E)

None of the above

63.	Stat	ement: Should India become a permai	nent n	nember of UN's Security Council?
00.		uments:		ionisol of olive booking, committee
	I.	Yes. India has emerged as a country	which	loves neace and amity
	II.	No. Let us first solve problems of our		
	(A)	Only argument I is strong		Only argument II is strong
		Either I or II is strong		Neither I nor II is strong
	(C)		(D)	Neither I nor II is strong
	(E)	None of the above		
64.		tement: Should India encourage expo rnal use itself?	orts, v	when most things are insufficient for
	Arg	uments:		
	I.	Yes. We have to earn foreign exchan	ge to p	pay for our imports.
	II.	No. Even selective encouragement w	ould l	ead to shortages.
	(A)	Only argument I is strong	(B)	Only argument II is strong
	(C)	Either I or II is strong	(D)	Neither I nor II is strong
	(E)	None of the above		
65.	If x	=10 ⁻¹ , what is the value of $\{x+1/x\}\{1/x\}$?)	
	(A)	91	(B)	101
	(C)	121	(D)	131
	(E)	None of the above		
66.	priv inst stuc trar	dents, 34 transferred from two-year rate four-year institutions, and the itutions. If two different students a	comre rest re to oth st	erred from other institutions. Of these nunity colleges, 25 transferred from transferred from public four-year be selected at random from the 100 udents selected will be students who
	(A)	15/150	(B)	16/150
	(C)	17/150	(D)	18/150
	(E)	None of the above		
	cert on a hav	ain relationship between two given wanother side of :: while another word	ords o	of the following questions there is a on one side of :: and one word is given be found from the given alternatives, e words of given pair bear. Choose the
67.	Hor	ise : Garbage :: Ore : ?		
UI.	(A)	Rubbish	(B)	Gangue
	(C)	Sand	(D)	Dregs
	(E)	None of the above	(1)	Diogo
	(12)	TYONG OF THE ADOVE		

68.	Tax	onomy : Classification :: Pedology : ?								
	(A)	Nature	(B)	Farming						
	(C)	Soil	(D)	Mountain						
	(E)	None of the above								
69.	Archipelago : Islands :: Massif : ?									
	(A)	Mountains	(B)	Caves						
	(C)	Forests	(D)	Hillocks						
	(E)	None of the above								
70.	mat			dy in the photograph is my nephew's photograph related to the man's sister						
	(A)	Cousin	(B)	Sister-in-law						
	(C)	Mother	(D)	Mother-in-law						
	(E)	None of the above								
	dire	ction from the starting point? South – East	(B)	5 meters. Now, Shankar is in which North – East North – West						
	infe			statement is given followed by four se definitely follows from the given						
72.	Soldiers serve their country									
		(A) Those who serve their country are soldiers.								
	(B)									
	(C)	Men generally serve their country								
	(D)	Some men who are soldiers serve t	heir cou	intry						
	(E)	None of the above								
73.	Mar	ny smokers get cancer.								
	(A)	Cancer patients are smokers								
	(B)	Smoking may lead to cancer								
	(C)									
	2 /	tur .								

(D)

(E)

Smoking is injurious to health

None of the above

74.	'Most	t of the	e pens in	n the shop ar	e expensi	ve'				
	(A)		-	cheap pens i						
	(B)									
	(C)			eap pens also	S					
	(D)			n that shop		-	P			
	(E)		of the a							
75.	minu	ites. If	the spe		in is redu	ced by	6 kmph, how		tation B in 45 e time will the	
	(A)	5 min				(B)	6 min			
	(C)	8 min				(D)	9 min			
	(E)	None	of the a	bove						
76.	The	day on	5th Ma	rch of a year	is the sa	me day	on what dat	e of the san	ie year?	
	(A)	5 th Au	gust			(B)	5 th Novemb	er		
	(C)	5 th Ja	nuary			(D)	5 th Februar	у		
	(E)	None	of the a	bove						
77.	At w	hat tin	ne betw	een 5 and 6	O' clock a	re the h	ands of a clo	ck coincide	nt?	
	(A)	20 mi	nutes p	ast 5		(B)	23 minutes	past 5		
	(C)	27 3/1	1 minu	tes past 5		(D)	21 minutes	past 5		
	(E)	30 mi	nutes p	ast 5						
78.	Each edge of a cube is increased by 50%. Find out the percentage increase in the surface area									
	(A)	250 %	5			(B)	240 %			
	(C)	125 %	5			(D)	160 %			
	(E)	(E) None of the above								
				estions 79 - en the existi			he missing	number by	analyzing the	
79.	Find	out th	e missi	ng number i	n the box.					
	7	4	2							
	7	4								
	36	6 ?	1							
	13	3 7	3							
	(A)	16				(B)	9			

(D) 36

(C)

25

	5	co	0.4									
	5	69	84									
	7	59	90									
	4	?	50									
(1	1)	34			(B)	38						
((C)	12			(D)	90						
(H	Ξ)	None	of the a	above								
V	What least value should be assigned to \$ so that 683\$32 is divisible by 8?											
		0			(B)	1						
((2)	2			(D)	3						
(H		None	of the a	above								
	Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and respectively. In 30 minutes how many times do they toll together?											
(<i>E</i>	1)	17			(B)	16						
((2)	21			(D)	18						
(H	Ξ)	None	of the a	above								
С	COSE is nothing but											
(1	(A) Common Operating System Environment											
(I	3)	Cost (Of Softv	ware Enrichm	ent							
((2)	Calcu	lation (Of Single Equ	ation							
(I	0)	All of	the abo	ove								
(I	Ξ)	None	of the a	above								
Т	The first Network Access System was developed by											
(1	(A	Xerox			(B)	Microsoft						
((C)	IBM			(D)	HP						
(I	E)	None	of the a	above								
F	Find out the odd item											
(4	(A) FireFox (B) Opera											
((C)	Interr	et Exp	lorer	(D)	Apache						
(I	Ξ)	None	of the a	above								
Т	he s	tudy o	of intera	action betwee	n people and ma	chines is						
			nology		(B)	InterSys						
			omics		(D)	Electrology	,					
((رز (Ergon	Office		(D)	Liectiology						

37.	Whi	ch of following is a/are s	earch engine	e(s) deve	eloped in India?						
	(A)	Kirfi		(B)	Guruji						
	(C)	Indus		(D)	All of the above						
	(E)	None of the above									
38.	Whi	Which of the following is/are used to map URL address with IP?									
	(A)	IP Finder		(B)	DNS						
	(C)	IP+		(D)	All of the above						
	(E)	None of the above									
89.	SAT	SATA bus supports									
	(A)	Hot Swapping		(B)	Soft Swapping						
	(C)	Synchronous Swapping	g	(D)	All of the above						
	(E)	None of the above									
0.	Which of the following is/ are online document manipulation service?										
	(A)	ScribD		(B)	Documentor						
	(C)	E-docs		(D)	All of the above						
	(E)	None of the above									
1.	Rollyo is a /an										
	(A)	Image editing tool		(B)	Web mailing tool						
	(C)	Web Search Engine		(D)	All of the above						
	(E)	None of the above									
2.	Вус	By default the port that FTP uses is									
	(A)	21		(B)	80						
	(C)	44		(D)	All of the above						
	(E)	None of the above									
3.	Whi	ich of the following progr	am is not ar	n utility	?						
	(A)	Debugger		(B)	Editor						
	(C)	Spooler		(D)	All of the above						
	(E)	None of the above									
4.	The	highest decimal number	r that can be	repres	ented with 10 binary digits is						
	(A)	1023		(B)	1024						
	(C)	512		(D)	All of the above						
	(E)	None of the above									

95.	PARAM is a			
	(A)	DBMS package		
	(B)	Parallel computer		
	(C)	Programming Language		
	(D)	Parallel Random Access Memory		
	(E)	None of the above		
96.	Which is an American data communication network?			
	(A)	LAN	(B)	Telenet
	(C)	BBS	(D)	ARCnet
	(E)	None of the above		
97.	In C Language, the string HELLO WORLD needs			
	(A)	11 bytes	(B)	12 bytes
	(C)	10 bytes	(D)	8 bytes
	(E)	None of the above		
98.	The first Mechanical Calculator built by			
	(A)	Joseph Marie Jacquard		
	(B)	John Mauchly		
	(C)	Blaise Pascal		
	(D)	Harward Ailken		
	(E)	None of the above		
99.	Which is the first process that will be executed immediately after PC is switched on?			
	(A)	POST	(B)	INIT
	(C)	CMOS	(D)	All of the above
	(E)	None of the above		
100.	MODEM is a			
	(A)	DCE	(B)	DTE
	(C)	DCE for first few minutes	(D)	DTE for the first few minutes
	(E)	None of the above		