# ENTRANCE EXAMINATION FOR ADMISSION, MAY 2013.

## M.B.A. (BANKING TECHNOLOGY)

**COURSE CODE: 381** 

Register Number:		
	•	
	: .	Signature of the Invigilato (with date)

, 0001452 0052.00

Instructions to Candidates :

Time: 2 Hours

1. 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.

Max: 400 Marks

- 2. 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) in the relevant box of the ANSWER SHEET using HB pencil.
- 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.
- 7. 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.

### **ENGLISH**

Directions (Qs. 1-5): Read the following passages carefully and answer the questions given below each passage. Certain words/phrases in the passages are given in bold to locate them while answering some of the questions.

#### PASSAGE

True, it is the function of the Police to maintain law and order in abnormal times. But in normal times there is another force that compels citizens to obey the law and to act with due regard to the rights of others. The force also protects the lives and the properties of law abiding men. Laws are made to secure the personal safety of its subjects and to prevent murder and crimes of violence. They are made to secure the property of the citizens against theft and damage to protect the rights of communities and castes to carry their customs and ceremonies, so long as they do not conflict with the rights of others. Now the good citizen, of his own free will obey these laws and he takes care that everything he does is done with due regard to the rights and well-being of others. But the bad citizen is only restrained from breaking these laws by fear of the consequence of his actions. And the necessary steps to compel the bad citizen too act as a good citizen is taken by this force. The supreme control of law and order in a state is in the hands of a minister who is responsible to the state Assembly and acts through the Inspector General of police

- 1. A suitable title for the passage would be
  - (A) The function of the court
  - (B) Laws and the people's rights
  - (C) The fear of the law and citizen's security
  - (D) The functions of the police
- 2. According to the writer, which one of the following is not the responsibility of the police?
  - (A) To protect the privileges of all citizens
  - (B) To check violent activities of citizens
  - (C) To ensure peace among citizens by safeguarding individual rights
  - (D). To maintain peace during extra ordinary circumstances

u.	which of the following reflects the main thrust of the passage:
*	(A) It deals with the importance of the army in maintaining law and order
	(B) It highlights role of the police as superior to that of the army
-	(C) It discusses the roles of the army and the police in different circumstances
	(D) It points to the responsibility of the minister and the Inspector General of Police
<b>4</b> .	The expression" customs and ceremonies" means
	(A) fairs and festivals (B) habits and traditions
	(C) usual practices and religious rites (D) superstitions and formalities
<b>5</b> .	They are made to secure the property of citizens against theft and damage"- means that the law
	(A) Helps in recovering the stolen property of the citizens.
	(B) Assist the citizens whose property has been stolen or lost
	(C) Initiate process against offenders of law
	(D) Safeguard people's possessions against being stolen or lost
	Directions (Qs. 6-10) pick out the most effective pair of words from the given pair of words to make the sentence/sentences meaningfully complete
6.	Tea prices in the domestie — — — continue to rule high in the current year despite the expectation of a — — production as compared to the previous year.
	(A) Circle——Market
	(B) Current — Higher
	(C) Market — Higher
	(D) Country——Rainfall
<b>7.</b>	Nothing in the life is considered to be more worthy than being ————————————————————————————————————
	(A) Formal——— Smile (B) Educated——— Dishonest
	(C) Smile————————————————————————————————————
8.	The science have made modern life———and comfortable. But science has——the same time created new problems.
	(A) Marvelous———Expensive (B) Expensive———At
	(C) Exciting———— Expensive (D) Marvelous————————————————————————————————————

and the second s				<del>-</del>	and to make people dings and real world
	Aim	-	(B)	Aim-	
(C) Concept —		Educated	(D)	Duty	— concept
		orickly subject t laim that it is—			Those who want to
(A) Debate-	· · · · · · · · · · · · · · · · · · ·	Deterrence	(B)	Controversy—	Stop
(C) Talk——	———Dete	errence	(D)	Review	Debate
· •	•		_		APITALS and choose to the given word.
NOISY					
(A) Disturbed	(B)	Break Silence	(C)	Rowdy	(D) Sound
EATABLE				•	•
(A) Edible	(B)	Healthy	(C)	Fit	(D) Delicious
HEINOUS				,	•
(A) Most	(B)	Good	(C)	Magnificent	(D) Awful
TREASURE					
(A) Fortune	(B)	Mystery	(C)	Abhor	(D) Luck
. SPREE					
(A) Shopping	(B)	Jolly	(C)	Celebration	(D) Carny
· -	•	ad the list of wo with most OPPC	_		APITALS and choose given word.
. ABDUCT		-	,	•	
(A) Release	(B)	Custody	(C)	Grab	(D) Snatch
. BASHFUL	,			·	
(A) Chary	(B)	Coy	(C)	Confident	(D) Pressure

18.	MIS	ERLY						
	(A)	Liberal	(B)	Lax	(C)	Skinflint	(D)	Mean
19.	MAI	LICE						
-	(A)	Animus	(B)	Benevolence	(C)	Enmity	(D)	Beloved
20.	SEL	DOM		•			•	
	(A)	Often	(B)	Interval	(C)	Now and then	(D)	Whimsically
·				of the four alter Given word/Sente		es, choose the A	PPR	OPRIATE word
21.	A bo	ook published aft	er the	e death of its auth	or			. •
	(A)	Biography	(B)	Autobiography	(C)	Posthumous	(D)	Post Mortem
<b>22</b> .	A G	overnment by on	<b>e</b> , -		•		÷	
	(A)	Administrator	(B)	President	(C)	Autocracy	(D)	Barbarian
23.	A lo	ss of damage tha	t canı	not be compensat	ed			
	(A)	Recoverable	<b>(B)</b>	Return	(C)	Broken	(D)	Irreparable
24.	Belo	onging to Middle	Ages					•
	(A)	Medieval	(B)	Middle	(C)	Center	(D)	Century
25.	The	period between	Child	hood and Adultho	ood			
	(A)	Adult	(B)	Adolescence	(C)	Young	(D)	Infancy
				MATHEMA	TIC	S		
26.	The	equations of the	latus	rectum of $\frac{x^2}{16} + \frac{3}{1}$	$\frac{y^2}{6} = 1$	, are		
•	(A)	$Y = \pm \sqrt{7}$	(B)	$X = \pm 7$	(C)	$Y = \pm 7$	(D)	$X = \pm \sqrt{7}$
27.	The	eccentricity of tl	ne hyp	perbola $12y^2 - 4x$	<sup>2</sup> – 24	x + 48y - 127 = 0	is	
	·		(D)	0	(0)	0	(D)	c

28.	The surface area of radius, is	a sphere when the v	olume is increasing at	the same rate as its
	(A) 1	(B) $\frac{4\pi}{3}$	(C) 2	(D) 5
29.	The area of the region and $x = \frac{\pi}{4}$ is	on bounded by the gra	$aph of y = \sin x and y = 0$	$=\cos x$ between $x=0$
	(A) $\sqrt{2+1}$	(B) $\sqrt{2-1}$	(C) $2\sqrt{2-2}$	(D) $2\sqrt{2+2}$
30.	In the set of integer element is	ers under the operati	on * defined by a*b =	a+b-1, the identity
	(A) 0	(B) 1	(C) a	(D) b
31.	A discrete random v	ariable X has probabil	lity mass function p(x),	then

In 16 throws of a die, getting an even number is considered a success. Then the variance of the successes is

(A)

 $(A) \quad 0 \le p(x) \le 1$ 

**(B)** 

(B)  $p(x) \ge 0$ 

(C)

(C)  $p(x) \le 1$ 

(D) 256

(D) 0 < p(x) < 1

33. The rank of the diagonal matrix

$$\begin{bmatrix} & -1 & & & \\ & 2 & & \\ & & 0 & \\ & & -4 & \\ & & & 0 \end{bmatrix}$$
 is

(A) 0

**(B)** 2 (C) 3 (D) 5

Which of the following is not a binary operation on R?

(A) a \* b = ab (B) a\*b=a-b

(C)  $a*b = \sqrt{ab}$  (D)  $(a*b) = \sqrt{a+b}$ 

The value of C of Lagrange's mean value theorem for  $f(x) = \sqrt{x}$  when a=1 and b=4 is

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

A random variable X has the following probability distribution

X 0 1 2 3 4 5
$$P(X=x) \quad \frac{1}{4} \quad \text{2a 3a 4a 5a} \quad \frac{1}{4}$$

Then  $P(1 \le x \le 4)$  is

- (B)  $\frac{2}{7}$
- (C)  $\frac{1}{14}$
- (D)  $\frac{1}{2}$

A bag contains 6 red and 4 white balls if 3 balls are drawn at random, probability of getting 2 white balls, without replacement is

- (B)  $\frac{18}{25}$
- (C)  $\frac{4}{25}$
- (D)  $\frac{3}{10}$

The marks secured by 400 students in a mathematically test were normally 38. distributed with mean 65. If 120 students got marks above 85, the number of students securing marks between 45 and 65 is

- (A) 120
- (B) 20
- 80 (C)
- (D) 160

39. If a  $\begin{bmatrix} 0 & 0 \\ 0 & 5 \end{bmatrix}$  then  $A^{12}$  is

- (A)  $\begin{bmatrix} 0 & 0 \\ 0 & 60 \end{bmatrix}$  (B)  $\begin{bmatrix} 0 & 0 \\ 0 & 5^{12} \end{bmatrix}$  (C)  $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$
- (D)  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

If  $\vec{a}$  and  $\vec{b}$  are two unit vectors and  $\theta$  is the angle between them, then  $(\vec{a} + \vec{b})$  is a 40. unit vector if  $\theta =$ 

- (B)  $\frac{\pi}{4}$  (C)  $\frac{\pi}{2}$
- (D)  $\frac{2\pi}{3}$

The quadratic equation whose roots are  $\pm i\sqrt{7}$  is 41.

(A)  $x^2 + 7 = 0$ 

(B)  $x^2 - 7 = 0$ 

(C)  $x^2 + x + 7 = 0$ 

(D)  $x^2 - x + 7 = 0$ 

The directrix of the parabola  $y^2 = x + 4$  is 42.

- (A)  $x = \frac{15}{4}$  (B)  $x = -\frac{15}{4}$  (C)  $x = -\frac{17}{4}$
- (D)  $x = \frac{17}{4}$

									<del>-</del> -		
			•						•		
	•								•		
	43.	The	curve $y = ax^3 + b$	$bx^2 + c$	x+d has	a point	of inf	lexion at $x = 1$	then		
		(A)	a+b=0				(B)	a+3b=0			
		(C)	3a+b=0				(D)	3a+b=1			
	44.	Whi	ch of the followi	ng sta	tements i	s incorr	ect?				
		(A)	Initial velocity			·					
		(B)	Initial accelera	tion n	neans acc	eleratio	n at t	= 0			
		(C)	If the motion is	upwa	ard, at th	e maxin	num h	eight, the veloc	ity is not zero	·	
		(D)	If the motion is	horiz	ontal, v (	) when t	he pa	rticle comes to	rest		
	45.	In w	hich region does	the c	$urve y^2 (a$	(x+x)=x	$c^{2}(3a -$	x)not lie?			
; ;		(A)	x > 0				(B)	0 < x < 3a	•		
		(C)	$x \le -a$ and $x >$	· 3a			(D)	-a < x < 3a			·
	46.	The	value of $\int_{0}^{1} x(1-x)$	$d^4$ $dx$	is						
· ·		(A)	$\frac{1}{12}$	(B)	<del>1</del> <del>30</del>		(C)	$\frac{1}{24}$	(D) $\frac{1}{20}$		
	47.	Whi	ch of the followin	ng is r	iot a grou	ıp?					
		(A)	$(Z_n +_n)$	(B)	(Z,+)		(C)	$(Z,\cdot)$	(D) $(R, +)$	I	
	48.	The	order of [7] in (	Z <sub>9</sub> + <sub>9</sub> )	is	:					
		(A)	9	( <b>B</b> )	6		(C)	3	(D) 1	٠,	
	49.	Whi	ch of the following	ng is a	ın expres	sion for	g'(x)	when $g(x) = \int_{0}^{x} (x^2 + x^2)^{-x}$	$(5t^2-2t) dt$ ?		
								2			
		(A) (C)	$5x - 2x$ $5x^2 - 2x$		:	,	(B) (D)	$5x^2 - 3y$ None of these	·		
		(0)	0x - 2x	•			(D)	None of these			
•	50.	The	least possible pe	erimet	er (n me	tres) of	a recta	angle of area 10	0 sq.m is		
		(A)	10	(B)	20	•	(C)	40	(D) 60		
	381					8					
					·						
		-									

### COMPUTER SCIENEC AND ENGINEERING

51. In the batch processing environment, data is

				•
	(A)	Entered directly into the computer		
-	(B)	Held in a temporary computer file		
	(C)	Processed immediately		
	(D)	Collected over a period of time		
<b>52</b> .	The	first task in the System Analysis is	,	
٠	(A)	Programming		
	(B)	Orientation and fact finding		
	(C)	The study of the processing operation	n	
	(D)	Environmentally dependent		
<b>5</b> 3.	The	Central Processing Unit consists of		•
	(A)	Input, output and processing control storage	unit, p	orimary storage and secondary
	(B)	Control unit, arithmetic logic unit, p	rimary	storage
	(C)	Control unit, processing, primary sto	orage	
	(D)	All of the above		
<b>54</b> .	ENI	AC belongs to the	- '	
	(A)	First generation computers	(B)	Second generation computers
	(C)	Third generation computer	(D)	Fourth generation computer
55.	Aux	iliary memory is		
	(A)	Memory slot	·(B)	Extended memory
	(C)	Secondary memory	<b>(D)</b>	Cache memory

```
Consider the following function.
56.
     double p(double b, unsigned int e)
     if (e = = 0)
        return 1.0;
     else
        if (even(e))
         return p(b*b, e/2);
      else
         return p(b*b, e/2)*b;
     How many multiplications are executed as a result of the call p(5.0, 12)?
     (A)
          6
                           (B)
                                                (C)
                                                                      (D) 12
57...
     The minimum time delay required between the initiation of two successive memory
     operations is known as
         Memory cycle time
                                                (B)
                                                      Memory access time
     (C)
          Transmission time
                                                (D)
                                                      Waiting time
58.
     Which of the following is widely used in Bank Cheque?
          MICR
                           (B) POS
                                                (C)
                                                    OCR
                                                                      (D) OMR
     (A)
     Spooling is most beneficial in multiprogramming environment where
59.
     (A)
          Most jobs are CPU bound
          Most jobs are I/O bound
     (B)
     (C)
          Jobs are evenly divided as I/O bound and CPU bound
          There is limited primary memory and need for secondary memory
     (D)
     Object program is
          A program written in machine language
     (B)
          A program to be translated into machine language
           The translation of high level language into machine language
     (C)
          None of the above
     (D)
```

61.	Whi	ch of the following sort	ting procedure i	s the s	lowest?					
	(A)	Quick tree (B)	Heap sort	(C)	Shell sort	(D) E	Bubble sort			
62.		omplete binary tree we as the values at its c			the value of ea	ach node	is atleast a	ıs		
	(A)	Binary search tree		(B)	AVL—tree					
	(C)	Completely balanced	tree	(D)	Heap					
63.	A tr	igger is								
	(A)	A statement that ena	ibles to start an	y DBM	is					
	(B)	A statement that i	s executed by	the u	ser when debu	igging ar	applicatio	n		
	(C) A condition the system tests for the validity of the database user									
	(D)	A statement that is modification to the d		natical	ly by the syster	n as a si	de effect of	а		
64.	Entity Relationship model comes under									
	(A)	Object based logical	model	(B)	Record based	logical m	odel			
	(C)	Physical data model		(D)	None of the al	oove	•			
65.	The action of parsing the source program into the proper syntactic classes is known as									
	(A)	Syntax analysis	÷.	(B)	Lexical analys	sis	•			
	(C)	Interpretation analys	sis	(D)	General synta	ıx analysi	s			
66.	A to	p-down parser generat	tes				90 ×			
	(A)	Right-most derivatio	n							
	(B)	Right-most derivatio	n in reverse							
	(C)	Left-most derivation								
	(D)	Left-most derivation	in reverse	•						
67.	The	main advantage of int	errupt concept	is elim	ination of					
	(A)	Spooling					,			
	(B)	Polling					٠.			
	(C)	Job scheduling								
	(D):	Blocking the current	ly running proce	ege e						

68.	Rou	nd robin is a									
	(A)	Kind of magnetic dram	(B)	Process scheduling policy							
	(C)	Process synchronization policy	(D)	Memory allocation policy							
69.	Thra	ashing									
	(A)	Reduces page I/O									
	(B)	Decreases the degree of multiprogra	mming								
	(C)	Implies excessive page I/O									
	(D)	Improve the system performance	•								
70.	Banker's algorithm for resource allocation deals with										
	(A)	Deadlock prevention	(B)	Deadlock avoidance							
	(C)	Deadlock recovery	(D)	Mutual exclusion							
71.	ICM	IP is									
•	(A)	(A) A protocol used to dynamically bind IP address to a low level physical hardward address									
	(B)	(B) A high level protocol for transferring files from one machine to another									
	(C)	A protocol used to monitor computers									
	(D)	D) A protocol that handles error and control messages									
72.	Whi	nich of the following protocol is used for remote terminal connection service?									
	(A)	TELNET (B) FTP	(C)	RARP (D) UDP							
73.	The	logic of Pumping lemma is a good exa	mple o	f							
	(A)	The pigeon-hole principle									
	(B)	The divide-and-conquer technique									
	(C)	Recursion									
	(D)	Iteration									
74.	In w	which model advantage of better testin	g in so	ftware development is available?							
	(A)	Waterfall model	(B)	Prototyping							
	(C)	Iterative	(D)	All of the above							

<b>75</b> .	Which of the following methods can be executed more than once on the same Applet object by the applet context?										
	(A)	destroy()	(B)	init()	(C)	main()	(D)	star()			
		ELECTRI	CAL, E	ELECTRONICS	SANI	COMMUNIC	CATION	. •			
76.				connection have nH. The equival					ıd a		
	(A)	5.7 mH	(B)	5.85 mH	(C)	6 mH	(D)	6.15 mH			
77.		nnected networ		> 2 nodes has a the network	at mos	t one branch o	directly o	connecting	any		
	(A)	must have at l	least N	branches for on	e or m	ore closed pat	hs to exis	st			
	(B)	can have an u	nlimite	d number of bra	nches						
	(C)	can only have	at mos	t N branches		·					
	(D)	can have a mi	nimum	number of bran	iches r	ot decided by	N				
78.	A tw	vo-port device is	define	d by the followin	ng pain	of equations:		. •			
	$i_1 = 2$	$2v_1 + v_2$ and $i_2 =$	$=2\dot{v_1}+\dot{v_2}$	Its impedance	paran	neters (z11,z12	2, z21,z22	2) are giver	by		
	(A)	(2,1,1,1)	(B)	(1,-1,-1,2)	(C)	(1,1,1,2)	(D) (	(2,-1,-1,1)			
79.	resp	- <u>-</u>		ncentrations in					_		
	(A)	$n+p=n_i+p_i$	(B)	$n + n_i = p + p_i$	(C)	$np_i = n_i p$	(D)	$np = n_i p_i$			
80.	· Isola	ation in ICs is r	equired	l				· ·			
	(A)	to make it sin	ipler to	test circuits			•				
	(B)	to protect tran	isistor :	from possible "tl	nerma	l run away"					
	(C)	to protect the	compoi	nents mechanica	ıl dam	age					
	(D)	to minimize e	lectrica	l interaction bet	ween	circuit compon	ents				

81.	A tw	A two stage amplifier with negative feedback has an overshoot when damping factor k is									
	(Å)	less than unity			(B)	greater than u	nity				
	(C)	zero			(D)	negative					
82.	Min	-terms correspon	ding	to decimal numb	e <b>r 15</b> i	is					
	(A)	ABCD	(B)	$\overline{A}\overline{B}\overline{C}\overline{D}$	(C)	A+B+C+D	(D) $\overline{A} + \overline{B} + \overline{C} + \overline{D}$				
83.		ıll-adder can be i er without any in	_		f-adde	ers and OR gates	s. A 4-bit parallel ful				
	(A)	8 half-adders,	4-OR	gates	(B)	8 half-adders,	3-OR gates				
	(C)	7 half-adders, 4	l-OR	gates	(D)	7 half-adders, 3	3-OR gates				
84.		Q output of a J- oplied. The input	_	<del>-</del> .	_	_	ge when a clock-pulse n't care state)				
	(A)	0 and X	(B)	X and 0	(C)	1 and 0	(D) 0 and 1				
85.	If a	counter having 1	0 FFs	s is initially at 0,	what	count will if hole	d after 2060 pulses?				
	(A)	000 000 1100	(B)	000 001 1100	(C)	000 001 1000	(D) 000 000 1110				
86.	The	data-bus width	of a 20	04 X 8 bits is		•.	÷ .				
ı	(A)	8	(B)	10	(C)	12	(D) 16				
87.	Whe	en HLT instructi	on of	a 8085 microproc	essor	is executed, the	microprocessor				
	(A)	is disconnected	l from	the system bus	till th	e reset is presse	d				
	(B)	halts execution	of th	e program and re	turns	to monitor					
	(C)	enters into a h	alt sta	le and the buses	are t	ri-stated					
	(D)	reloads the pro	gram	from the location	ns 002	24 and 0025H					
88.	The	address range to	whic	h I/O chip will re	espon	d, is					
	(A)	0000H to 1FFF	Ή		(B)	0000H to 5FFI	H				
	(C)	4000H to 5FFF	H		(D)	3000H to FFFI	r H				

	(A)	an impulse	(B)	a parabola	(C)	a ramp	(D) a doublet				
90.	The	trigonometric F	ourier	series of aperi	odic fun	ction can hav	e only				
	(A)	Cosine term			(B)	Sine term					
	(C)	Cosine and sin	e term		(D)	None of the	above				
91.	The	transfer functio	n of a	linear system	is the						
	(A) ratio of the output, $v_0(t)$ , and the input $v_1(t)$										
	(B)	(B) ratio of the derivatives of the output and the input									
	(C) ratio of the Laplace transform of the output and that of the input with all initial conditions zeros										
	(D)	none of these		•							
92.	The transfer function of a system is 10/(1+s). When operated as a unity feedback system, the steady state error to a unit step input will be										
	(A)	zero	(B)	1/11	(C)	10	(D) infinity				
93.	Nois will	_	RF am	plifier when o	perated	at RF with n	oise temperature 150K				
	(A)	1.42	(B)	1.52	(C)	1.62	(D) 1.72				
94.	In F	M sound broade	asting	system, the m	ıaximun	n frequency de	viation is usually				
.•	(A)	15 kHz	(B)	75 kHz	(C)	$200~\mathrm{kHz}$	(D) 5.2 MHz				
95.	The	difference betw	een a l	OSB and SSB	transmis	ssion is					
	(A)	DSB has two s	idebar	nds and SSB or	ne sideb	and					
	(B)	DSB has a car	rier ar	nd two sideban	ds and S	SSB, a carrier	and a sideband				
	(C)	(C) DSB may or may not have a carrier with two side band and SSB either of the two sidebands without carrier									
	(D)	DSB has a car	rier ar	ıd two side bar	ids and S	SSB without c	arrier and two different				
				*			•				

Double integration of a unit step function would lead to

89.

96.	Which of the following sets of equations is independent in Maxwell's equations?	
	(A)	the two curl equations
	(B)	the two divergence equations
	(C)	both the curl and divergence auditions
	(D)	the two curl equations combined with the continuity equations
97.		20/440 V, 50Hz, 5kVA single phase transformer operates on 220V, 40Hz supply secondary winding. Then
	(A)	the eddy current loss and hysteresis loss of the transformer decrease
	(B)	the eddy current loss and hysteresis loss of the transformer increase
	(C)	the hysteresis loss of the transformer increases while eddy current loss remains the same
	(D)	the hysteresis Loss remains the same whereas eddy current loss decreases
98.	Open slots are used in DC machine armature because	
	(A)	of the ease with which the winding can be placed inside the slots
	(B)	it increases the induced emf per coil
	(C)	it reduces the armature voltage drop
	(D)	it reduces the coil reactance emf and hence aids in commutation
99.	Corona loss can be reduced by the use of hollow conductors because	
	(A)	the current density is reduced
	<b>(B)</b>	the eddy current in the conductor is eliminated
	(C)	for a given cross-section the radius of the conductor is increased
	(D)	of better ventilation in the conductor
	Rectifier moving coil instruments respond to	
	(A)	peak value, irrespective of the nature of the wave form
	(B)	average value for all wave forms
	(C)	rms value for all wave forms

(D) rms value for symmetrical square waveform