ENTRANCE EXAMINATION FOR ADMISSION, MAY 2011. M.B.A. (BANKING TECHNOLOGY) COURSE CODE: 381

Register N	umber.					
				-	Signature of the In (with date)	vigilator

COURSE CODE: 381

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 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.
- 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.
- 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.

Choose the right Synonyms from the following :

1.	EAGER						
	(A) Clever	(B)	Enthusiastic	(C)	curious	(D)	devoted
2.	TARNISH						
	(A) Ornate	(B)	Blemish	(C)	destroy	(D)	Scrub
3.	AMPLE						
	(A) sufficient	(B)	shift	(C)	detailed	(D)	Huge
4.	DEPLETE						
	(A) Destroy	(B)	Finish	(C)	Exhaust	(D)	Vanish
5.	PREDICT						
	(A) Explain	(B)	Foretell	(C)	Assert	(D)	Observe
6.	DISPARITY						
	(A) Injustice	(B)	Unlikeness	(·C)	Partiality	(D)	Distortion
	Choose the right and	tonym	s from the follow	ing:			
	1						
7.	PRIDE						
	(A) Humility	(B)	Shame	(C)	Humbleness	(D)	Debasement
8.	ENOUGH						
	(A) Inadequate	(B)	Scarce	(C)	Deficit	(D)	Less
9.	MISERLY						
	(A) a Hospitable	(B)	Generous	(C)	Extravagant	(D)	Philanthropic
10.	HAPPINESS						
	(A) Contentment	(B)	Grief	(C)	Renunciation	(D)	Beatitude
11.	ENRICH						
	(A) Diminish	(B)	Poor	(C)	Change	(D)	Affluent
12.	AUDACIOUS						
	(A) Timid	(B)	Vulgar	(C)	Low	(D)	Unpracticed

13.	(A)	We discussed about the problem so thoroughly	
	(B)	On the eve of the examination	
	(C)	That I found it very easy to work it out.	
	(D)	f I had known	
14.	(A)	An Indian ship (B) Laden with merchandise	
	(C)	Got drowned in the Pacific Ocean (D) Due to heavy rain	
15.	(A)	could not put up in a hotel	
	(B)	Because the boarding and lodging charges	
	(C)	Were exorbitant and	
	(D)	cannot afford that	
16.	(A)	The Prime Minister has said that India would not have spent so much lefense	01
	(B)	f some of the neighboring countries	
	(C)	Adopted the policy of	
	(D)	Restricting defense expenditure	
17.	(A)	f I had known (B) This yesterday	
	(C)	will have helped him. (D) Without much delay	
18.	(A)	Unless you stop to make noise at once (B) I will have no option but to	
	(C)	Bring the matter (D) To the attention of the police.	
		the most effective word from the given words to fill in the blank to make to meaningfully complete:	h
19.	We:	and him very ———— even at the age of seventy nine.	
	(A)	Drowsy (B) Young (C) Active (D) Old	
20.	The	project was accepted and therefore they are very ————.	
	(A)	Ecstasy (B) relevant (C) Pleasure (D) Elated	
21.	We	d to face a lot of ———— because of heavy rain.	
	CAN	Duchlama (P) Compliments (C) Sympathy (D) Results	

Find the sentence having the grammatical error for the following six questions:

22.	His		– arrival ga	ave all of us	s pleasant s	urprise.		
	(A)	Planned	(B)	Informed	(C)	Sudden	(D)	Irregular
23.	Fort	unately, the	accident d	id not caus	se her any		injury.	
	(A)	Minor	(B)	Small	(C)	Serious	(D)	Remarkable
24.	Desj	pite repeated	1 ———	— he did	not give up	his efforts.		
	(A)	Victories	(B)	Failures	(C)	Attempts	(D)	Practices
25.		Military ha	d to use A	rmy force to	0	— the agita	tors to m	aintain the la
	(A)	Provoke	(B)	Control	(C)	Punish	(D)	Walk away
				3.5.1.000				
				MATE	IEMATICS			
26.	The	number of r	ows in the	fourth tabl	e of ~ [p^(~	q)] is		
	(A)	2	(B)	4	(C)	6	(D)	8
27.	Eve	ry homogeno	us system	(linear)				
	(A)	is always c	onsistent		(B)	has only tri	vial solut	ion
	(C)	has infinite	ely many s	olutions	(D)	need not be	consister	nt
28.	The	order of mat	trix B = [1]	2 5 7] is				
		1 * 4			(C)	2 * 1	(D)	1 * 1
29.	Nun	nber of eleme	ents in a m	atrix of or	der 2 * 3 is			
	(A)	5	(B)	2	(C)	3	(D)	6
		[8	5 7]					
30.	The	matrix 0						
			0 2					
	(A)	the upper t	riangular		(B)	lower triang	gular	
	(C)	square mat	trix		(D)	null matrix		
31.	If th	he $n^{ m th}$ term of	f an A.P. is	(2n-1) th	en the sum	of n terms is	3	
	(A)	$n^2 - 1$	(B)	(2n - 1)	(C)	n^2	(D)	$n^2 + 1$
32.	The	sum of n ter	ms of an A	.P. is n2. T.	hen its com	mon differen	ce is	
	(A)	2	(B)	-2	(C)	± 2	(D)	1

	(A)	25	(B)	625	(C)	3125	(D)	625 * 25
34.		first term of of the G.P	of G.P. is 1	. The sum of th	nird an	d fifth terms is	s 90. Fi	nd the common
	(A)	± 2	(B)	$\sqrt{10}$	(C)	± 3	(D)	-3
35.	Whe	en the terms	of a G.P.	are written in r	everse	order the prog	ression	formed is
	(A)	A.P.	(B)	G.P.	(C)	H.P.	(D)	A.P. and H.P.
36.	Give	en that (1 , -	-1) is the co	entre of the circ	$e^{2} + e^{2}$	$y^2 + ax + by - 9$	$\theta = 0.$	
	(A)	3	(B)	$\sqrt{2}$	(C)	$\sqrt{11}$	(D)	11
37.	The	equation of	a circle wi	th centre (0,0) a	and pas	ssing through t	he poin	t (5, 0) is
	(A)	$x^2 + y^2 - 10$	0x = 0		(B)	$x^2 + y^2 = 25$		
	(C)	$x^2 + y^2 + 1$	0 x = 0		(D)	$x^2 + y^2 - 10y =$	= 0	
38.	The	radius of th	e circle x	$x^2 + y^2 - 2x + 4y - $	-4=0 i	s		
	(A)	1	(B)	2	(C)	3	(D)	4
39.	Ider	ntify the cor	rect statem	nents of the follo	owing:			
	(i)	a relation	is a functio	on .				
	(ii)	a function	is a relatio	on				
	(iii)	a function	which is n	ot a relation is	not pos	sible		
	(iv)	a relation	which is n	ot a function is	possibl	e		
	(A)	(ii), (iii), (i	v) (B)	(ii) and (iii)	(C)	(iii), (iv)	(D)	all
40.	Whi	ich of the fol	lowing cur	ves is concave o	lown?			
	(A)	$y = -x^2$	(B)	$y = x^2$	(C)	$y = e^x$	(D)	$x^2 + 2x - 3$
41.		mean of a see of n and p		listribution is 5	and it	ts standard de	viation	is 2. Then the
	(A)	(4/5,25)	(B)	(25,4/5)	(C)	(1/5, 25)	(D)	(25,1/5)
42.				ard deviation			bution	are 12 and 2

The third term of a G.P is 5, the product of its first five term is

1/4

(D)

(B) 1/3

(A) 1/2

(C) 2/3

43.	In 16 throws of a variance of the suc			even nu	ımbeı	r is considered a	a succe	ess. Then	the
	(A) 4	(B)	6		(C)	2	(D)	256	
44.	A box contains 6 probability of getting				. If	3 balls are dra	awn a	t random,	the
	(A) 1/20	(B)	18/125		(C)	4/25	(D)	3/10	
				6					
45.	If 2 cards are draw are of the same cold		a well sh	nuffled	pack	of 52 cards, the	probab	oility that th	ney
	(A) 1/2	(B)	26/51		(C)	25/51	(D)	25/102	
46.	The eccentricity of	the hyp	perbola 12	y^2-4x	2 - 2	4x + 48y - 12z =	0 is		
	(A) 4	(B)	3		(C)	2	(D)	6	
47.	The equation of $4x^2 - 6y^2 = 24$ is	chord	of consta	ant of	tange	ents from (5,	1) to	the hyperb	ola
	(A) $9x + 10y + 12 =$	= 0			(B)	10x + 9y - 12 =	0		
	(C) $9x - 10y + 12 =$	= 0			(D)	10x - 9y - 12 =	0		
48.	The slope of the nor	rmal to	the curve	y = 3x	2 at t	he point whose x	-coord	inate is 2,	is
	(A) 1/13	(B)	1/14		(C)	-1/12	(D)	1/12	
49.	Which of the follow	ing is r	not a binar	ry opera	ation	on R?			
	(A) $a * b = ab$				(B)	a * b = a - b			
	(C) $a*b = \sqrt{ab}$				(D)	$a*b = \sqrt{a^2 + b^2}$			
50.	The velocity v of a								
	origin is given by a	$+by^2 =$	x^2 , where	$e \alpha$ and	b are	constants. Ther	the ac	cceleration i	s

(A) b/x

(C) x/b

(D) x/a

(B) a/x

COMPUTER SCIENCE

51.	The Second	Generation Co	mputer was bas	sed on			
	(A) Vacuur	m Tube		(B)	Silicon Chips		
	(C) Transi	stor		(D)	Bio Chips		30
52.	What do yo	u call the pro	grams that are	used t	to find out poss	sible faults and t	heir
		ing system ext	tensions	(B)	Cookies		
	(C) Diagno	ostic software		(D)	Boot diskettes		
53.	Punched car	ds were first i	ntroduced by				
	(A) Powers	S		(B)	Pascal		
	(C) Jacqua	ard		(D)	Herman Holle	rith	
54.	Programs a	re executed on	the basis of a p	riority	number in a		
	(A) Batch	processing sys	tem	(B)	Multiprogram	ming	
	(C) Time s	haring		(D)	None of these		
55.	What is the	first stage in s	oftware develo	pment?			
	(A) Specifi	ication and des	sign	(B)	Testing		
	(C) System	n Analysis		(D)	Maintenance		
56.	B7 : B9 indi	cates					
	(A) Cells I	B7 and cell B9	only.	(B)	Cells B7 throu	igh B9.	
	(C) Cell B	8 only.		(D)	None of the ab	oove.	
57.	The box on (A) cell	the chart that	t contains the r		f each individua axis (D)	al record is called legend	d the
58.	Which lang	nage is used to	create macros	in Exce	1?		
50.	(A) Visual				Visual C++	(D) Java	
59.		orkbook is a co	ollection of ——	+			
	(A) Work	oooks		(B)	Worksheets		
	(C) Chart	S		(D)	Worksheets an	nd Charts	

60.	Whi	ch Chart can be created in Excel?		
	(A)	Area	(B)	Line
	(C)	Pie	(D)	All of the above
61.	user			n your DBMS. You do not want your actures. At the same time you want to
	Refe	erring to the above scenario, what str	ucture v	will you deploy?
	(A)	Cursor table	(B)	Table filter
	(C)	Dynamic procedure	(D)	View
62.		are defining the operational processes, which one of the following is a val		r RDBMS. Referring to the scenario
	(A)	OS requirement	(B)	User analysis
	(C)	Performance monitoring	(D)	Data dictionary specification
63.		have been asked to construct a cloyed a Right Outer Join operation.	query in	the company's RDBMS. You have
		erring to the scenario above, what w match between the tables?	vill happ	en to the final results when there is
	(A)	The right table will return ALL ro	ws.	
	(B)	The right table will return NULL.		
	(C)	Both tables will return NULL.		
	(D)	The left table will return ALL rows		
64.	Whi	ch one of the following is NOT a char	racterist	ic of metadata?
	(A)	Data about data	(B)	Describes a data dictionary
	(C)	Self-describing	(D)	Includes user data
65.	You	are running a query against a relati	onal dat	abase.
		erring to the scenario above, what cloavoid a costly table scan?	ause or	command do you use in the query to
	(A)	GROUP BY clause	(B)	INDEX command
	(C)	HAVING clause	(D)	FROM clause
66.	Whi	ch was the first electronic spreadshe	et?	
	(A)	Visicale (B) Lotus 1-2-3	(C)	QUATRAPRO (D) Ms-Excel
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67.	How	many steps are	mvor	vea .	ın meai	icai tra	mscri	ption:			
	(A)	2	(B)	4			(C)	3		(D)	Many
60	Whi	ch of the following	og pro	mido	g gogur	ity to	lata?				
68.		Class	ig pro	viue	s secur	ity to t	(B)	Data hie	ding		
	(A)						(D)	Derived			
	(C)	Base class					(1)	Derived	Class		
69.	Whi	ch one of the foll	owing	; is a	n exan	iple of	objec	t oriente	d progr	rammir	ng?
	(A)	BASIC	(B)	C			(C)	Pascal		- (D)	C++
70.		many classific	ations	s of	operat	ions a	re th	ere base	d on o	perant	requirement
	in C		E							(D)	
	(A)	13	(B)	4			(C)	3		(D)	14
71.	Wha	at is the maximu	m rar	ige o	of unsig	med in	teger	data typ	e?		
	(A)	255	(B)	65	535		(C)	32768		(D)	3.4e + 10
								T . 0			
72.		ch escape seque				resent				(D)	\-
	(A)	\1	(B)	۱n	1		(C)	\m		(D)	\X
								5.0			
73.	Whi	ch of the followi	ng fur	ctio	ns initi	alizes	the c	lass objec	t?		
	(A)	Destructor					(B)	Pointer			
	(C)	Constructor					(D)	Operato	or over	loading	g
74	3371. :	ch of the followi	or tow		maana	o nome	hov	ing two o	r moro	dietin	et magnings?
74.				ms	means	а паше	(B)	Encaps			ct meanings:
	(A)	Data abstracti	on				(D)	Overloa		1	
	(C)	Inheritance					(D)	Overioa	unig		
75.	Whi	ch algorithm de	sign t	echn	iques i	s used	in m	erge sort	algorit	hm?	
	(A)	Dynamic progr	ramm	ing			(B)	Back tr	acking	;	
	(C)	Divide and cor	nquer				(D)	Greedy	metho	od	

ENGINEERING AND BUSINESS

76.	In moving iron instrument the deflecti	ng torque	is proportional to
	(I = current through the coil)		
	(A) <i>l</i> (B) <i>l</i> ²	(C)	$l^{3/2}$ (D) $l^{1/2}$
77.	The electromagnetic flow meter works	based on	
	(A) Faraday's law	(B)	Kirchhoff's law
78.	(C) Lenz's law The torque developed in a PMMC met	(D) er is	Ampere's law
	(A) directly proportional to the flux of	lensity in t	the air gap
	(B) inversely proportional to the flux	density in	n the air gap
	(C) does not change with the flux der	nsity with	the air gap
	(D) None of the above		
79.	Mathematical expression of a controll	er is given	below
	$m = k_p \left(e + \frac{1}{T_i} \int_0^t e dt\right)$. It represents		
	(A) PD controller	(B)	PI controller
	(C) PID controller	(D)	Proportional controller
80.	If low pressure of the order of 10-6 mm instrument you select?	of Hg is to	o be measured, which of the following
	(A) Compound pressure gauge	(B)	Thermocouple vacuum gauge
	(C) Pirani gauge	(D)	Ionisation type vacuum gauge
81.	A cathode ray oscilloscope cannot be u	sed for the	measurement of
	(A) voltage	(B)	current
	(C) frequency	(D)	power
82.	A $3\frac{1}{2}$ digit instrument can have maximal	mum read	ing of
	(A) 100 (B) 999	(C)	9999 (D) 1999

83.	HAI	RT is an acronym for		
	(A)	Heart Acknowledge Ready Trans	ducer	
	(B)	High Altitude Remote Transduce	r	
	(C)	Highway Addressable Remote Tr	ansmitter	
	(D)	Highway Addressable Remote Tr	ansducer	
84.	The	controller that produces sluggish,	long oscill	atory response is
	(A)	Proportional controller	(B)	Derivative controller
	(C)	Integral controller	(D)	None of the above
85.	In a	VTVM the alternating voltage mea	asurement	t corresponds to
	(A)	Sawtooth wave inputs	(B)	Square wave inputs
	(C)	Sine wave inputs	(D)	input of any waveform
86.	Whi	ch of the following is piezo-electric	material?	
	(A)	Sodium sulphate	(B)	Rochelle salt
	(C)	Blue salt	$^{\circ}(D)$	Sodium hexa meta phosphate
87.	The	velocity static error constant for a	type-0 sys	etem is
	(A)	zero (B) k	(C)	infinity (D) 1
88.	The	electrical analogous for gear train	is	
	(A)	Amplifier	(B)	Transformer
	(C)	Filter	(D)	Equalizer
89.	A br	ridge used for measuring dielectric	loss of cap	pacitor is
	(A)	Schering bridge	(B)	Maxwell bridge
	(C)	Anderson bridge	, (D)	Hay bridge
90.	Sem	niconductor strain gauge has		
	(A)	Low fatigue life	(B)	Complete linearity
	(C)	Poor hysterisis	(D)	High gauge factor
91.	The	ripple factor of a half wave rectifie	r is	
	(A)	0.485 (B) 0.287	(C)	1.51 (D) 1.21

92.	Whi	ch of the following conf	figuration can be	used	as a buffer?
	(A)	CEC		(B)	CCC
	(C)	CBC		(D)	None of the above
93.	The	following relationships	s between α and	β an	re correct except
	(A)	$\alpha = \frac{\beta}{1 + \beta} \tag{B}$	$1-\alpha=\frac{1}{1+\beta}$	(C)	$\beta = \frac{\alpha}{1 - \alpha}$ (D) $\alpha = \frac{\beta}{1 - \beta}$
94.	RC l	ow pass filter can also	be known as		
	(A)	Differentiator (B)	Integrator	(C)	Schmitt trigger (D) Clipper
95.	Whi	ch of the following use	least power?		
	(A)	TTL (B)	ECL	(C)	CMOS (D) DTL
96.	The	Governor of RBI is			
	(A)	Mr. D Subbha Rao		(B)	Mr. C.B. Bhave
	(C)	Mr. Rangarajan		(D)	Mr. Y.V. Reddy
97.	The	union budget is presen	ited in the parlia	ment	by
	(A)	Home minister		(B)	External affairs minister
	(C)	Finance Minister		(D)	Minister for Parliamentary affairs
98.	Whi	ch of the following regu	lated by SEBI?		
	(A)	Public sector Banks		(B)	Provident fund
	(C)	Stock Market		(D)	All the above
99.	Whi	ch one of the following	is not a public se	ector	bank?
	(A)	SBI		(B)	IOB
	(C)	OBC		(D)	ICICI
100.	Whi	ch of the following look	s after the pensi	on re	formation in India?
	(A)	RBI		(B)	TRAI
	(C)	FICCI		(D)	PFRDA