Enrollment Number	•
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Dr. Babasaheb Ambedkar Open University

Term End Examination January - 2015

Course : BCA Numerical Code: 0065 Subject Code : BCA – 201 Numerical Code: 0556

Subject : Data Base Management System Total Marks : 70

Section A (30)

Answer the following (any three)

- 1. What is DBMS? Explain advantages and Disadvantages of DBMS.
- 2. List out types of Normalization and explain 1NF with example.
- 3. Explain types of Transaction in detail.
- 4. Explain 3-schema architecture in detail with necessary figures.
- 5. Why password protection is needed?

Section B (20)

Answer the following (any four)

- 1. Comparison between file processing and DBMS.
- 2. Explain commit, rollback and save point.
- 3. Explain ER diagram of store System.
- 4. What are data models? List name of data models and explain any one type of data model.
- 5. Explain limitation of data ware housing.

Which is not a type of lock?

(B)

Null lock

(C)

Write-lock

(D)

Not null lock

Read-lock

6. Comparison between RDBMS and OODBMS.

Section C

8

(A)

	(A) Cho	ose correct ansv	ver.		(10)					
1	Full na (A)	nme of DDl is Data Duration	(B)	Data Define	(C)]	Data Definition	(D)	None of this		
2	Which (A)	of the following Relational	is not d (B		(C) Network	(D)	All of above		
3	Which (A)	is level of abstra View level	ction? (B)	Create level	(C)	Relational leve	l (D)	None level		
4	Which (A)	of the following CREATE	is not a (B)	DDL command DROP	1? (C)) ALTER	(D)	SELECT		
5	More t (A)	han one column i Foreign key	making (B)			n as Composite key	(D)	Null key		
5	Which (A)	data type is type LONG	of char (B	• •	(C	C) VARCHAR2	2 (D)	All of above		
7	(A) R			-	-	e, select and delet Consistency (D)				

9	Data warehouse is (A) Subject oriented (B) Volatile (C) Inconsistence (D) Non-integrated
10	Who gives basic rules of DBMS? (A) E.F.Codd (B) Graham bell (C) Einstein (D) None of above
	(B) Give Answer in One/Two Sentence. (10)
	1. Define DBMS.
	2. Define Attribute.
	3. Define Entity set.
	4. Write any two names of built-in function access.
	5. Is a symbol of in ER diagram?
	6. Which command is used to control access to data? (GRANT/COMMIT)
	7. Query used retrieve data using SELECT command. (True/False)
	8. Write syntax to create table in SQL.
	9. What is Function Dependency?
	10. Give any two examples of database system application.

D	r. Babasaheb Term End	Ambedka Examination J	r Open l				
Course Subject Code Subject		Nui Tot	merical C merical C tal Marks	ode: 05 :			
Date	: 21/01/2015		Tin	ne 	: 03.00	to 06	.00
 Explain ray Give definit Explain cirqueue. 	ving (Any Three) pes of analysis. w major and columnition of stack and execular Queue and walk list operation.	xplain PUSH a	nd POP fun	ction.	ction in ((30)	ır
 Difference List out tre Explain typ Explain bu 	plication of stack. between single link e traverse method a pes of graph with figure	ınd explain any	-			(20)	
Section C Answer the follow (A) Choose co	• •					(10)	
Which is not (A) Arra	user define data typy (B)		(C)	Union		(D)	Double
` ′	s entries are mostly		` ,	full	(D)	, ,	fault
a + b * c is ir (A) Infix	the form of(B)	 Prefix	(C) Po	ostfix	(D)	None	of above
The Linked l (A) End	ist also contains a li	ist pointer varia Start	able called (C)			(D)	Null
(A) Cont	nked list, all nodes a inuous circle (B)	Non contin	uous circle	hout using	null.		
, ,	inuous line (D)	Non contin	uous circle				
	DFS flow search (B)	Data file sy	stem				
` /	h first search (D)	•					

(A)

(A)

Truncation

 $O(n^2)$

Complexity of insertion sort.

Which of the following is not a method of building hash function?

(B)

(B)

Transaction

O(n)

Folding

log n

(C)

(C)

(D)

(D)

Mid-square

log n²

1

2

3

4

5

6

7

8

9	Amo (A)	ong following ex	xpression (B)	which is havin	ng the high (C)	est priority.	(D)	*		
10	Whi (A)	ch is not a liner Stack		ture? Queue	(C)	Tree	(D)	Linked list		
	(B) G i	ive Answer in (One/Two	Sentence.			(10)			
	1. Define data.									
	2. Convert following linfix expression to postfix.									
	(a	+b)*(c+d)								
	3. Gi	ve full form of	LIFO.							
	4. In	circular queue i	f the front	t = rear, the ci	rcular queu	ie will be co	onsider as empty	7		
	T)	rue/False).								
	5. De	efine overflow f	or link list							
	6. A	graph is a pair o	of (V, E),	where V =	, I	E =	·			
	7. Q	uick sort method	l is also kı	nown as partit	ion exchan	ige sort. (Tr	ue/False)			
	8. Gi	ve full form of	LB and U	В.						
	9. Gi	ve types of hash	ning.							
	10. Gi	ve full form of	BFS.							

Enrollment Number	:
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Dr. Babasaheb Ambedkar Open University

Term End Examination January-2015

Course : BCA **Numerical Code: 0065 Subject Code**: BCA-203 Numerical Code: 0562 : Financial Accounting Management **Total Marks**: 70 **Subject**

Date : 22/01/2015 Time : 03.00 to 06.00

Section - A

Attempt any three of the following

(30)

- 1. Financial and management function.
- 2. Explain debenture capital with advantages and disadvantages.
- 3. Explain trading on equity with example.
- 4. Explain features of computer accounting system.
- 5. Prepare a bank reconciliation statement from the following data as on 30/11/1988
 - a. Balance as per pass book on 31/11/1988 overdrawn Rs. 9204
 - b. Cheques drawn on 30/11/1988 but not cleared till Dec. 1988, Rs. 3225, Rs. 745 and Rs. 926
 - c. Bank overdraft interest charged on 28/11/19 not entered in cash book Rs. 1610.
 - d. Cheques received on 29/11/1988 entered in cash book but not deposited to bank till 3rd December, 198 Rs. 11322 and Rs. 1730
 - e. Cheque reviewed amounting to Rs. 35 entered in the cash book twice.
 - f. Bills receivable due on 29/11/1988 was sent to bank for collection on 28/11/88 and was entered in cash book forthwith but the proceeds were not credited in bank pass book till 3rd Dec. 1988 Rs. 290.
 - g. Cheaur deposited on 30th nov. 1988 dishonoured but the entry there of was not made in the cash book Rs. 1890

Section - B

Attempt any Five in brief

(20)

- 1. Functions of accounting
- 2. Wealth maximization
- 3. Warrants
- 4. Capital expenditure
- 5. Estimation cash flow for new project
- 6. Profit and loss account items debit side

Section C

(A) Choose correct answer.

(10)

- 1 Book keeping is the art of recording business transaction in a systematic manner given by a) A. H. Rose kempff
- b) L. C. Copper
- c) R. N. Crater
- d) Hoagland
- 2 Financial management may be considered to be the management of the finance function.
 - a) Hoagland b) Paul G. Husingd c) Raymond chambers
- d) Archer and ambrosia
- The details of changes in financial position of a corcern between two balance sheet date is 3 called.
 - a) Cash flow analysis
- b) Ratio analysis
- c) Capital budgeting techniques
- d) Fun flow analysis
- The purpose to buy a fixed number of ordinary shares at a particular price during a specified 4

		period is called.					
		a) convertible b) warr	ants	c) Term loa	ans	d) Equity	y capital
5		The rat of interest payable on a) Cost of preferred capital c) Cost of equity	b) Cos	obtained that t of realized t of debt	_	ssue of de	ebenture is called.
5		A summary of various leger b	· · · · · · · · · · · · · · · · · · ·				
		•	ense account		tructuring	d) Presei	nt value
7		All transaction sales on credit		c) cupiture		<i>a)</i> 11000	
			s book c) Pure	chase return	book	d) sales 1	eturn book
3		The index number of the mov	*			,	
		for more than one accounting		•	1		
			b) Trend ratio		flow analys	sis d) Ratio analysis
)		A long term promissory note:					,
		a) Debenture b) Prefe	erence share ca	apital c) T	Term loan	d) Warra	ants
10		The dividend expected by its	nvestors is cal	lled.			
		a) Cost if realized earnings	b) Cost of deb	t			
		c) Cost of preferred capital	d) Capital asso	et pricing mo	odel		
	(B)) Do as directed.				((10)
	1.	Full for of AAA					
	2.	Full form of APB					
	3.	Give full form of AICPA					
	4.	Give full form of NCADs					
	5.	Give full form of FCDs					
	6.	Give full form of CAPM					
	7.	Give full form of WACC					
	8.	Give full form of MCC					
		Give full form of EPS					
	10	. Give full form of APV					
		_					

Dr. Babasaheb Ambedkar Open University

Term End Examination January - 2015

Course: BCANumerical Code: 0065Subject Code: BCA-204Numerical Code: 0564Subject: MathematicsTotal Marks : 70

Section - A

Attempt any three of the following

(30)

- 1. Find equation of the circle through (-1,-3) & touching the line 4x + 3y 12 = 0 at (3,0).
- 2. Solve the equation $\begin{vmatrix} x+2 & 2x+3 & 3x+4 \\ 2x+3 & 3x+4 & 4x+5 \\ 3x+5 & 5x+8 & 10x+17 \end{vmatrix} = 0$
- 3. For what values of a, b, c $\begin{bmatrix} 0 & 2b & c \\ a & b & -c \\ a & -b & c \end{bmatrix}$ is orthogonal.
- 4. Prove that (1) $nPr = \frac{n!}{(n-r)!}$
 - (2) nCr = nCn r
 - $(3) nCr + nCr 1 = n + 1C_r$
- 5. Find standard eq^n of hyperbola

Section - B

Do as directed (any 4)

(20)

- 1. If $A \subseteq B \& B \subseteq C$ than $A \times B \subseteq B \times C$ Prove this.
- 2. Examine for consistency

$$x + y + Z = 1$$

 $x + 2y + 4z = 2$
 $x + 4y + 10z = 4$

- 3. Find center and radius of the circle $x^2 + y^2 + 6x 4y + 4 = 0$
- 4. If $A = \left\{ \frac{x}{x} \le 7, x \in N \right\} \& B = \left\{ x \in \frac{N}{2} < x \le 5 \right\}$ Prove that $A \cup B = b \cup A = A \text{ and } A \cap B = B \cap A = B \text{ find } A B \text{ and } B A$
- 5. Without expanding the determinant, show that $\begin{vmatrix} 0 & b & -c \\ -b & 0 & -a \\ c & -a & 0 \end{vmatrix} = 0$
- 6. How many different arrangements can be made using all letters of the word 'ENGLISH'?
 - a. How many of these begin & end with a Conexant?
 - b. In how many of these, vowels occupy even places?
 - c. How many begin with vowel & end with Conexant?

Section - C

(A) Answer in Short.

(10)

- 1. If A and B are two sets then $\overline{(A \cup B)} = \overline{B} \cap \overline{A}$. (True or False)
- 2. Give two examples of infinite sets.
- 3. State properties of binary operations.

5. What can be the value of angle between two lines if they have same slope? (B) Select an appropriate answer: (10)It m1 &m2 are slopes of two lines and m1m2=-1 then lines are 1 Parralled (B) Perpendicular (C) Coinsident (D) A & C both What is an eccentricity of ellipse whose latus rectum is one half of its major axis. 2 (A) (B) (C) (D) None of the above Inverse of a matrix A is defined 3 $\frac{1}{|A|}adj A$ adj A (A) (B) (D) What can be the value of $15C_{10} + 15C_a + 16C_9 + 17C_{11} + 18C_{12}$ 4 (B) **18**C₁₀ $18C_{12}$ (D) If A is a subset of B and C is a superset of B then A is a _____ C. 5 Subset (B) Superset (C) Equal Set (D) None of the above (A)

4. State standard equation of Ellipse.

			En	rollm	ent Numbe	er:		
\mathbf{L}	r. Babasaheb	Ambed	kar O	pen	Univers	sity		
	Term En	d Examinati	on Janua	ary-20	15			
Course	: BCA	Numerical Code: 0065						
Subject Code	: BCA – 205			Nu	merical C	ode: 05	566	
Subject	: Introduction	to Multimed	lia Syste					
					tal Marks			
Date	: 24/01/2015			Tir	ne	: 03.0	0 to 06	5.00
Section A							(30)	
Attempt any Thr	ee of the following	;:						
 List different 	ent graphics file for	mat and exp	olain its ı	usage.				
2. Explain w	ww in detail.							
3. What are t	he input devices us	ed in multin	nedia sys	stem?	Explain in	brief.		
4. What is m	ultimedia Informati	on system?	Give sch	nemati	ic represen	tation o	of	
multimedi	a information flow.							
5. Explain ro	le of multimedia in	different ar	eas.					
Section B							(20)	
Write short notes	s on any Four.						()	
	he Desirable Featur	es for a Mu	ltimedia	syste	m?			
	ate Traditional anim			•				
	rtual Reality list the		-					
	ort note on: MPEG							
5. Write a sh	ort note on: Interac	tive media.						
6. What is fin	re wire?							
Section C								
	orrect answer.						(10)	
1 MIDI stands	for:							
	sical Instrument dig	ital interface	e (B)	Music	al instrum	ent digi	ital inst	ruction
• /	3 instrument digital		, ,			Ū		Information
, ,	C				incura msu	umem	uigitai	mormation
Which of fol (A) Text	llowing can be cont t (B) Au	ent or muiti idio	media 11 (C)	ie: Ima	ges	(D)	Allo	of the above
,	` /		` /		_		1 222 0	
Which graph (A) GIF	nics file format is us (B)	EPS	_	n-post (C)	TIFF	itei.	(D)	PICT
4 Which anim	ation software can	easily create	SWFfi	ile				
	be Flash (B)	3D Studio I		(C)	Maya		(D)	Paint
` '	resented as a series			` /	•		` /	
(A) Pics		Shots	•		Frames		(D)	Snaps
` '	` '		`	(0)	Tallies		(2)	ышры
	isadvantages of mu bility (B)			(C)	Relativi	tv	(D)	Adaptively
. ,	•		1.4-	` ′		•	, ,	
	can be added to co , email address etc.	ncept of a fi	ne to go	to var	iety of loca	ation III	ke some	e document,
(A) Slidelin		ollink	(C) Hy	nerlin	k	(D) M	[enulin]	k
, ,	, ,			-		` /		
8 A di (A) Viev	splays a list of com (B)		usuany a	appear (C)	s in the too	oidar at	(D)	of the screen. List
(Δ)	(D)	, iviciiu		(\mathbf{C})	IXIL		(\mathbf{D})	List

9		multi A)	imedia CBT s Cathode base		:	(B)	Comp	outer l	based testing	ğ		
	`	C)	Computer ba	sed traini	ng	(D)	•		tmap Ttf			
10		hich (A)	of the following .BMP	_	an im PCX	age fo		(C)	.GIF		(D)	.AUX
	(B) l	Do as	s directed. (A	ll Compu	ılsory	7)					(10))
	1. [True/False]: Animation can be used to emphasize the three-dimensional nature of											
	objects.											
	2. V	What	is Mbone use	d for?								
	3. V	Write	common vec	tor forma	ts use	ed in r	nultime	edia.				
	4. V	What	is Pixar?									
	5. I	Defin	e: Hypermedi	a.								
	6. I	Digiti	izing tablet is	a	i	nput d	levice.	[chara	cter, pointin	ng]		
	7. [[True	/False]: JPEG	can com	press	image	es from	2:1 to	o 160:1 usin	g symme	etrical	1
	C	comp	ression algori	thm.								
	8. (Give	full form of M	IMX.								
	9. 1	Name	e any three vec	ctor draw	ing pı	rogran	nme.					
	10. [[True	/False]: Multi	media file	e cont	tains t	ext, im	ages,	audio, datab	ase etc.		
								_				