Paper Code: BCA-302

Time: 3 Hours

Maximum Marks: 75

Subject: Data Warehouse and Data Mining

END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY 2018

Note: Attempt any five questions including Q.no.1 which is compulsory. Select one question from each unit. Q1 Answer the following questions in brief: $(2.5 \times 10 = 25)$ (a) What do you mean by Frequent Pattern mining in databases? (b) Define Quantile plot and scatter plot. (c) What do you mean by data transformation? Explain. (d) Define Regression technique for predictive analysis of data. (e) Explain support and confidence in relation to association rule mining. (f) What is a data warehouse? (g) What is Starnet Query Model for querying multidimensional databases? (h) What are the applications of data mining? (i) What is accuracy and error measure in relation to classification? (j) What are data mining task primitives? Q2(a) Discuss the benefits of data mining. (6.5)(b) How can you measure dispersion of data? Explain the concept of Range, Quartiles, Outliers, and Boxplots. Q3 (a) How are missing values and noisy data handled in data cleaning step of data mining? (b) Define Knowledge Discovery in Databases with suitable diagram. Unit-II Q4 (a) Explain star, snowflake schema for multidimensional data models. (6.5) (b) Compare OLAP and OLTP systems. (6)Q5 (a) What are typical OLAP operations? Explain in brief. (6.5) (b) Explain Apriori Algorithm of association rule mining. (6) (a) Explain decision tree in classification. Q6 (6.5)(b) Explain k-means algorithm in detail with suitable diagram. (6)Q7 (a) Differentiate between eager and lazy learners? Explain their different (6.5)(b) Explain k-medoid algorithm in detail with suitable diagram. (6)Unit-IV Q8 (a) What are the major issues in data mining? Explain. (6.5)(b) What are data mining applications in Telecom industry? (6)Q9 (a) Discuss social impacts of data mining in detail. (6.5)(b) Write short notes on: (6) (i) Mining the World Wide Web (ii) Mining spatial databases. ******

END TERM EXAMINATION

	SIXTH SEMESTER [BCA] MAY 2	
		Subject: Mobile Computing
	: 3 Hours	Maximum Marks: 75
Note:	: Attempt five questions in all including Q.n Select one question from eac	h unit.
	Scient one question y one case	
Q1	Answer the following:	(2.5×10=25)
	 (a) "Antenna is an isotropic radiator." Explainantenna. (b) What is delay spread? What are its consequence (c) What is meant by MEO? What are the advance (d) What is Handover? Explain in brief. (e) What is WAP Gateway? Explain. (f) What are the capabilities of WML Script? (g) Write the attributes of "Template" Tag in What is the price of the price	uences? antages of it? VML.
	 (i) Explain the concept of attenuation and sha (j) Explain in brief the applications of wireless 	adowing of radio signals.
	Unit-I	
Q2	What is Multiplexing? Explain various types of	of multiplexing in detail.(12.5
Q3	Explain the mechanism of spread spectrum Explain its types in detail.	n. What is its importance? (12.5)
	Unit-II	
Q4	(a) What do you mean by authentication in Go (b) Explain how a mobile terminated call is ro	SM? (6.5) tuted in GSM with diagram.(6
Q5	(a) Explain hidden and exposed terminal prob (b) Explain DAMA and PRMA.	olem in WLAN. (6.5) (6)
	Unit-III	
Q6	Explain WML events with the help of suitable	e examples. (12.5)
Q7	(a) Write WML Script to check a date.(b) Write a WML Script function to calculat and show its usage in WML Program.	(6.5) te the factorial of a number (6)
	Unit-IV	
Q8	(a) What are the challenges and pitfalls in ma (b) Draw WAP architecture. Explain the WSP	aking the internet mobile?(6.9) and WTP layers. (6)
Q9	(a) What are pragmas in WMLScript? Expla pragma with suitable example.(b) Explain WML Document Prologue and	(6.5)

suitable examples.

Paper Code: BCA-306

END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY- JUNE 2018

Subject: Linux Environment

Tim	e: 3 Hours	Maximum Mari	
BTo	ote: Attempt any five question including Q.No1 w	hich is compuls	ory.
IVO	ite: Attempt any five question including t		
Q1	Answer following in brief (Any five) (a) Why is Linux more portable than other operatin (b) What is Inode in Linux? Differentiate betwee Link.	ig system?	5=25) d soft
	(c) Explain the following process related commands (i) PS (ii) TOP (iii) Nice		
	(d) Differentiate between standard Input and Output(e) What is shell? What is difference between BASH(f) What is the role of the free software foundation Linux? Who developed the Linux kernel?	and Kon?	ient of
Q2	(a) What is ordinary file system? Difference between(b) Explain the following commands.(i) whoami (ii) man (iii) bc	n ext3 & ext4.	(8) (4.5)
Q3	(a) Describe briefly the UNIX architecture. Expla	ain any four dir	(0)
	(b) Explain the navigation commands. (i) mv (ii) rm (iii) cat		(4.5)
Q4	(a) What is an archieve file. How do you creat advantages of using gzip & bzip2. What is tar, §(b) Define the three modes of vi. How you can sweanother?	gunzip?	(6.5)
Q5	(a) Explain the changing permissions & default per copy the file?	ermission. How o	do you (8) (4.5)
	(b) What are pipes? Write some pipe commands.		(4.5)
Q6	(a) Explain the following commands: (i) tail (i) wc (iii) init o (iv) sort (v) diff		(7.5)
	(b) Which two environment variables are set by read	ding/etc/passwd	(5)
Q7	(a) What is the difference between an interactive shell? Define significant features in an interactive (b) Find the special permissions of SUID and SGID.	ve shell.	ractive (7.5) (5)
Q8	(a) What is the process of Linux? Explain the role of Linux.(b) What is system call? Explain any four system call.		ptor in (6) (6.5)
2 9	(a) Explain the process state in Linux.(b) Explain the Linux Kernel in brief. Explain the Kernel in brief.	ernel debuggers.	(6) (6.5)

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END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY- JUNE 2018

-	er Code: BCA-308	Sui	bject: Mu	timedia d	and its appl	ication
	: 3 Hours				Taximum Mo	
Note:	Attempt any five que	stion incl	uding Q.	No 1 whic	ch is compu	isory.
2	Attempt any ten: (a) Which are the various (b) Explain the Application (ii) Pravel and Tourism (iii) Engineering Application (iii) Explain the types of Mark is meant by Quality (iii) Explain the requirement (iv) What is MP3 and how (iv) Differentiate between (iv) Which are the various (ii) List any four ways in useful.	ons of Multimedia pality of Servents of COD it is different and seditors available.	media in the projects. * ice in MMI DEC. * Int from M XML. * ailable to d	DB systems P1 and MP2 evelop Web	elop Multimed 3?* 2? pages?	
	(k) What is Keyfram Ani: (k) What is the special r multimedia projects?	equirement	with resp	ect of proc	essor and me	mory for
Q2	(a) What is meant by Autorious. (b) Which are the various					uthoring (6.5 (6
Q3	(a) What is Data Comprocompression. Explain(b) Explain the steps reconcept help of diagram representation.	n the variou quired for the senting eac	s Lossy Da he process h phase.	of Digitiza	tion in detail	with the (6.5
Q4	(a) What are the various Multimedia Projects? (b) Differentiate between	Media Com	munication	n and Medi	a Consumptio	on. (5
25	(a) What is meant by Virt (b) What are the advanta	ges of Multi	media con	iciciiciig.		(6.5
Q6	(a) Differentiate between (b) A document contains	Shannon-F letters A th	ano coding rough F w	and Huffn	CICS as marca	(5 ted: (7. 5
	A B	С	D	E 0.3	F 0.12	
	(i) Derive a code v (ii) Find average n (iii) Find the mini- code words.			n Coding.		
	/	plain variou	as WWW T	ools.	launching M	ultimedi
d	(a) What is WEB 2.0? Ex (b) What is the role of H' on web?	TML and H	ITP in der	voing care		(6.5
28	(b) What is the role of H	I'ML and H	IIP in der			(4.5 (4.5 (4

Time: 3 Hours

Subject: Artificial Intelligence

END TERM EXAMINATION

SIXTH SEMESTER [BCA] MAY JUNE 2018 Paper Code: BCA-312

Maximum Marks: 75	Natural Management of the Author of the Auth
ng Q.no.1 which is compulsory.	Note: Attempt five questions in all inc Select one question
n each unit.	solver one question
(5x5=25)	Write short notes (Any five):- (a) Heuristic Approach (b) Task domain (c) Expert System (d) Hill Climbing (e) Role Learning (f) Robotic Architecture (g) DFS (Depth First Search)
	UNIT
ntelligence? Describe it. (6.5) ogram. (6.5)	Q2 (a) What is the importance of Artific (b) Discuss issues in design of sear
duction System. (6) various Application areas of AI.(6)	Q3 (a) Explain the various categories of (b) What are the elements of AI? Di
	UNIT
viedge Representation System?(6) owledge Representation can be rate. (6.5)	(a) What are the qualities of a good (b) What is predicate logic? How achieved using predicate logic?
wledge & Inferential Knowledge.(6.5)	Q5 (a) Differentiate between Inheritable (b) Describe mapping between facts
	UNIT
ng. Explain various types of NLP	(a) Describe Natural Language Pro
161	techniques. What is learning? Explain how l
ssing & Semantic Processing.(6.5 ssing. (6)	Q7 (a) Comparison between Syntactic (b) Explain discourse & pragmatic parts of the contract of
	UNIT
riate language for AI technique? (12.5)	Q8 Why LISP is considered to be ap Write a LISP program to print facto

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