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B.C.A. (Semester - IV) (Old) (CGPA) Examination Nov/Dec-2018

	J.	SOFTWARE ENGINEERING	
Time	e: 2½	Hours Max. Marks: 7	0
Instr	uctic	2) Attempt any two questions from Q. 2 to Q. 4. 3) Attempt any one questions from Q.5 and Q.6. 4) Figures to the right indicate full marks.	
Q.1	A)	Choose correct alternatives. 1) Ais a visual means for showing how a rule (or set of rules) applies to repetitive situations. a) Decision Table b) Structured chart c) Flow Chart d) ERD	7
		 2)is quality of software in which for incorrect input also performs well. a) Reliability b) Robustness c) Correctness d) None of these 	
		 3) The output of one subsystem is the required input for another subsystem is called? a) Interdependence b) Independency c) Relation d) Both A and B 	
		 4) Which depicts flow of control in program modules? a) Flowchart b) DFD c) Both A & B d) None of these 	
		 5) Which type of DFD concentrates on the system process and flow of data in the system? a) Logical DFD b) Physical DFD c) Both A & B d) None of these 	
		6) The most creative and challenging phase of the system life cycle is a) Requirement Analysis c) System Testing b) System Design d) System Evaluation	
		 7) To successfully complete a project, the must monitor programs in relation to time, cost and quality. a) Analyst b) Programmer c) Designer d) All of these 	
Q.1	B)	State True or False 1) The third normal form (3NF) eliminates transitive dependencies. 2) In reality, a completely closed system is rare. 3) First level DFD contains single process. 4) Organization implies structure and order.	4

	C)	Fill in the blanks	03
	-	1) testing specifies the behavior of a system or a part of a	
		system. 2) The model is a risk-driven software process model. 3) maintenance involves adjusting the application to changes in the environment.	
Q.2	b)	What is system? Explain various system elements. Explain Spiral model in detail. Explain system requirement analysis.	05 05 04
Q.3	b)	Explain advantages and disadvantages of HIPO. Explain Data Flow Diagram with its symbols. Write a difference between white box and black box testing.	05 05 04
Q.4	b)	What is Flow chart? Write the principles of flowcharting. Explain software qualities in details. Explain the advantages of prototyping model.	05 05 04
Q.5	•	Explain the various roles of system analyst in detail. Draw a CLD and First level DFD for Mark sheet printing system.	07 07
Q.6	•	Explain the Fact Finding Techniques in detail. Draw Entity Relation Diagram for College Admission System.	07 07
Q.7	a) b)	ite short notes on the following (Any two) Data Dictionary Structured English Normalization	14

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B.C.A. (Semester - IV) (Old) (CGPA) Examination Nov/Dec-2018

RDBMS WITH ORACLE					
Time	21/2	≨ Hours		Max. Marks: 70	
Instr	ucti	ons: 1) Q.1 and Q.7 are compulsory.2) Attempt any two questions from Q3) Attempt any one question from Q			
Q.1		woose the correct alternatives: Which of the following is an invalid attribution a) % found c) %open	b)	of an explicit cursor? %notfound. %rowcount	
	2)	A column defined as a primary key can h a) True		a NULL. False	
	3)	It is possible to modify a datatype of a coa) true		n when column contains a data. False	
	4)	Which SQL statement is used to Modify (a) select c) modify	b)	a in a table? update save	
	5)	A procedure stored in the database a) In compiled form c) Both a and b	,	As source code None of these	
	6)	Delete index command is used to remove a) True		n index from the database. False	
7) Which SQL statement is used to select all records from a table named "Student" where the value of the column "FirstName" starts with "S"? a) select * from student where FirstName='S'; b) select * from student where FirstName='S%'; c) select * from student where FirstName like 'S%'; d) select * from student where FirstName like '%S';				stName" starts with "S"? S'; S%'; ke 'S%';	
	8)	is date function in SQL. a) date c) datetime	,	system date sysdate	
9) Which of the following is the concatenation operator? a) && b) c) + d) @				operator?	
	10)Which of the following is not a DML state a) insert c) delete	b)	nt? update create	
	11	Secondary key to represent relationship lateral () True		veen tables. False	
	12)Which of the following provides a way to database and then process each row ind a) Triggers c) Cursors	ivid b)	•	

	13	a) True by clause can be used in a sub-query. a) True b) False	
	14))Which of the following is advantage of view? a) To hide complexity of a query b) To hide complexity of a calculations c) To protect the data from other users d) All of these	
Q.2	b)	What is a DDL statement? Explain in detail. Define foreign key and give its advantages. What is the use of Aggregate functions in Oracle? Give one example.	05 05 04
Q.3	b)	What are sequences? Why it is used? Create a sequence. What is view? Give the syntax for creating a view. What do you mean by GROUP BY Clause? Give suitable example.	05 05 04
Q.4	b)	Explain with example concept of trigger. Give the syntax and example. 1) Delete 2) alter What is the difference between drop and truncate? Give its syntax.	05 05 04
Q.5	•	Describe the concept of PL /SQL function. Write a cursor to display all books having price more than 500 in ascending order of price.	07 07
Q.6	a)	Write a package specification and body which contains following.1) Procedure which accept a number and the calculate factorial of given number.2) A function which accept a number and return if it is odd or even.	07
	b)	List and explain various constraints used in Oracle.	07
Q.7	a) b) c)	Pite short note on :- Parameterized cursor Advantages of packages Relation and attribute Structure of PL/SQL	14

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B.C.A. (Semester - IV) (Old) (CGPA) Examination Nov/Dec-2018 OPERATING SYSTEM

Time	: 2½ l	Hours Max. Marks: 7	7 0
Instr	uctio	 ns: 1) Q.1 and Q.7 are compulsory. 2) Attempt any two questions from Q. 2 to Q. 4. 3) Solve any one questions from Q.5 and Q.6. 4) Figures to the right indicate full marks. 	
Q.1	a)	 In a segmentation scheme the logical memory will be divided into a) Pages b) Frames c) Blocks d) Segments 2)algorithm has lowest page fault rate. a) FIFO b) LRU c) Optimal page replacement d) None of the above 3)memory allocation scheme suffers from external fragmentation. a) Segmentation b) Pure demand paging 	9
		c) Swapping d) Paging 4)allows directories to share subdirectories and files. a) Acyclic graph b) Single level directories c) Two level directories d) Tree structure directories 5) The number of processes completed per unit time is known as a) Output b) Throughput c) Efficiency d) Capacity	
		6) Resources are allocated to the process on non-sharable basis is a) Mutual exclusion b) Hold and wait c) No pre-emption d) Circular wait 7) The information about all files is kept in a) Swap space b) Operating system c) Separate directory structure d) None	
		 8) Which of the following memory management scheme loads all pages of a program from disk into main memory? a) Paging b) Demand paging c) Segmentation d) Demand segmentation 9) File type can be represented by a) File name b) File extension 	
Q.1	b)	 c) File identifier d) None of the above. State True or False:- 1) Direct access files are used for immediate access to large amounts of information. 2) Wait for graph is used for deadlock avoidance. 3) The Process Control Block is data structure. 4) A page fault occurs when the page is in the memory. 5) Linked allocation method solves external fragmentation.)5

			Process	Allocation	Max	Available		
	-,		ource types	A, B, C, D		` ` ` `	· · · /	••
Q.6	•		•	ous directory s		g 5 processes (P	O-P4)	07 07
Q.5	•		•	nents to solve ods of allocatin	the critical sec og disk space.	tion problem?		07 07
	•	•	•	communicatior m components		system in detail.		
Q.4		Calculate the total number of page fault using optimal page replacement and LRU Page replacement algorithm on following reference string having maximum 03 frames- 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7, 0, 1					14	
Q.3	a) b)	Explain ro What is an		cheduling algorain the types o	rithm with exan of operating sys	•		14
Q.2	a) b)	nswer any two the following. What is deadlock? Explain 4 necessary conditions of deadlock. Describe different types of file access methods. What is swapping? Why does one need to swap areas of memory?						14

Process	Allocation	Max	Available
	ABCD	ABCD	ABCD
P0	0012	0012	1520
P1	1000	1750	
P2	1354	2356	
P3	0632	0652	
P4	0014	0656	

Answer the following questions using the banker's algorithm:

- 1) What is the content of the matrix Need?
- 2) Is the system in a safe state?
- 3) If a request from process P1 arrives for (0, 4, 2, 0), can the request be granted immediately?

Q.7 Write short notes on the following: (Any Two)

- a) Process Control Block
- b) Semaphore
- c) Priority Scheduling

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B.C.A. (Semester - IV) (Old) (CGPA) Examination Nov/Dec-2018 WEB TECHNOLOGY - II

Time:	2½	4 Hours		M	ax. Marks: 70
Instru	cti	ons: 1) All questions are compulsory.2) Figures to right indicate full marks.			
		altiple Choice Questions: PHP Scripts starts with a) <php> </php> c) ?php ?php		php? 	14
	2)	What is the use of strlen() function in PHP a) It returns the type of a string b) It returns the value of a string c) It returns the length of a string d) It returns the subset value of a string	?		
	3)	PHP is a typed language. a) User c) Server	,	Loosely System	
	4)	Where session_ start() function must appeaa) Anywhere c) After <html>tag</html>	b)	in PHP? With <html> tag Before <html> tag</html></html>	
;	5)	Variables are case-sensitive in PHP? a) True	b)	False	
1	6)	Which function displays the information ab a) Info() c) phpinfo()	b)	: PHP? sysinfo() php_info()	
	7)	How PHP files can be accessed? a) Through Web Browser c) Through Web Server	,	Through HTML files All of Above	
,	8)	Data for a cookie stored in in a) In ISP Computer c) In Server Computer	b)	P? In User's Computer It depends on PHP Cod	ling
!	9)	Which of the following is the Concatenatio a) + (Plus) c) & (Ampersand)	b)	perator in PHP? .(dot) % (Percentage)	
	10)	Which of the following is not the scope ofa) Localc) Static	b)	riable in PHP? Global Extern	
	11)	Which of the following statements prints in a) Out c) Echo	b)	ੀP? Write Display	
	12)	What will be the result of combining a striga) intc) string	b)	with another data type in float double	PHP?

	 13)What does fopen () function do in PHP? a) It used to open files in PHP b) It used to open Remote Server c) It used to open folders in PHP d) It used to open Remote Computer 	
	 14) What does the PHP Interpreter do? a) It translates User Language to System Language b) It creates connection between ISP & Server c) It processes the HTML and PHP files d) All of these 	
Q.2	 a) Answer the following (Any Four) 1) What is require() and require once()? 2) What is abstract keyword? 3) Explain function 4) Explain Session 5) Explain Method Overloading. 	80
	 b) Write Notes on (any Two) 1) Multidimensional array. 2) String Manipulation functions 3) Grep Function 	06
Q.3	 a) Answer the following (Any two) 1) Write note on PHP Datatypes 2) Write a short note on Basic Regular Expression. 3) What is a function in PHP? Explain Passing arguments to a function by value. 	80
	b) Answer the following (Any One)1) Explain Cookies with proper example2) Explain Constructor and Destructor in details.	06
Q.4	 a) Answer the following (Any Two) 1) What is inheritance? Explain Final Keyword along with proper example. 2) Define Array. Explain Associative array with proper example 3) Explain \$_POST, \$_GET and \$_REQUEST arrays with proper example b) Answer the following (Any One) 	10 04
	b) Answer the following (Any One)1) Explain any 4 math function with proper example in PHP.2) What is My SQL? Explain Database Connectivity with PHP.	04
Q.5	 Answer the following (Any two) a) Define inheritance? Explain Types of inheritance in PHP b) Write a program to accept a number through text box and print the number is prime or not using PHP. 	14
	c) Explain PHP framework in details.	

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B.C.A. (Semester - IV) (Old) (CGPA) Examination Nov/Dec-2018 E-COMMERCE

Time: 2½	∕₂ Hoι	urs	Max. Marks: 70
Instruct	ions:	2) Attempt any two questions from Q. 2 to Q.4. 3) Attempt any one question from Q. 5 and Q.6	
Q.1 A)		elect the correct alternatives: () E-commerce is not suitable for. (a) Sale / purchase expensive jewellery and and b) Sale/purchase of mobile phone. (b) Sale/purchase of branded cloths (c) Online job searching	tiques.
	2)	,	urate Invoice f the above
	3)	, , , , , , , , , , , , , , , , , , , ,	erentiation f the above
	4)	,	path to a previously sonal contact t document
	5)	Amazon.com comes under the following mode a) B2B b) B2C c) C2C d) C2B	
	6)	·	tomer not payment e of the above
	7)		are dit/Debit f the above
Q.1 B)	1) 2) 3) 4) 5) 6)	ill in the blanks:-) EDI stands for) How the transaction occur in e-commerce) The key used to encrypt data is called) Which will not harm computer resources) EFT stands for) Unsolicited e-mails is called what) The E-payment mechanism widely used in B2E	_•
a) b)	Exp Exp	a short note. (Any Two) Delain the porter's value chain model Delain strategy formulation and implementation pla Delain the implementation of e-commerce.	nning.

		3LK-CH-3
Q.3	Answer the following:a) Future of electronic market.b) Explain Airline Booking System	14
Q.4	Answer the following:-a) Explain the internet book shop and e-shopsb) Explain E-visibility.	14
Q.5	Answer the following:-a) Explain the web site evaluation model.b) Introduction to business strategy	14
Q.6	Answer the following:-a) Explain the factors of business environment.b) Explain the scope of e-commerce	14
Q.7	Write a short note:- (Any two)a) What is credit transaction trade cycleb) Define B2C electronic commercec) Internet Banking	14

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B.C.A. (Semester - V) (Old) (CGPA) Examination Nov/Dec-2018 ADVANCED JAVA - I

	ADVANCED JAVA – I			
Time	: 2½ l	Ηοι	urs Max. Marks:	70
Instr	uctio	ns:	 1) Q.1 and Q.7 are compulsory. 2) Solve any two questions from Q. 2 to Q. 4. 3) Solve any one questions from Q.5 and Q.6. 4) Figures to the right indicate full marks. 	
Q.1	a)	1)	is used in web.xml to pass parameters to servletconfig. a) <init-param> b) <context-param> c) <web-app> d) <servlet-mapping>- Which of these methods can be used to output a sting in an applet? a) display() b) print()</servlet-mapping></web-app></context-param></init-param>	07
		3)	c) drawString() d) transient() Which of these packages provides classes and interfaces of servlet? a) javax.servlet.* b) javax.servlet.http.* c) javax.servlet.api.* d) both a) and b)	
		4)	Which method is used for an SQL statement that is executed frequently? a) prepareStatement() b) prepareCall() c) createStatement() d) SQLStatement()	
		5)	Which is the immediate super class of an Applet? a) Object b) Window c) Panel d) Component	
		6)	What is/are true about type-4 driver? a) Pure and auto downloadable b) Also called thin driver c) Not required native library to be installed d) All of these	
		7)	XML stands for? a) Extensible Markup Language b) Extended Mashup Language c) Extensible Mashup Language d) X-Markup Language	
	b)	1) 2) 3) 4) 5) 6)	DTD stands for Document Type Definition. In Applet, start() method is used to initialization of an applet. Cookies are maintained at client side or server side. RequestDispatcher interface provide the facility of dispatching the request to another resources it may be html, servlet or jsp. JDBC stands for Java Data Base Connectivity. XML is a self-descriptive language.	07

Q.2	 Attempt any two of the followings: a) What is an Applet? Explain Applet HTML tags. b) Write a program to navigation (last, first, next, previous) employeerecords such as eid, ename, designation, DOB, etc from employee table. c) What is XML? Explain XML Tree in details. 	14
Q.3	Attempt any two of the followings: a) List the advantages and disadvantages of HttpSession. b) Explain JDBCcomponents in detail. c) Write a program to design an applet that displays the following shapes. 1) circle 2) triangle 3) rectangle 4) oval 5) line	14
Q.4	 Attempt any two of the followings: a) Explain Applet Life cycle with example. b) Explain JDBC statements and methods. c) Write a demonstration program to use of include () and forward () method of 'RequestDispatcher'. 	14
Q.5	a) Explain types of JDBC drivers with examples.b) Differentiate between GenericServlet and HttpServlet .	07 07
Q.6	a) What is servlet? Explain features and advantages of servlet.b) What is Cookies? Explain advantages and disadvantages and use of 'Cookies' in Servlet with example.	07 07
Q.7	Write a short note on the following:- (any 2)a) XMLvalidationb) Features of JDBCc) servlet API	14

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B.C.A. (Semester - V) (Old) (CGPA) Examination Nov/Dec-2018

	VISUAL PROC	•
Time:	2½ Hours	Max. Marks: 70
Instru	uctions: 1) Q.1 and Q.7 are compulsory. 2) Attempt any two questions from 3) Attempt any one question from 4) All questions carry equal mark	Q.5 and Q.6.
Q.1	Select the correct alternatives: 1) event occurs when cont a) MouseClick c) MouseDown	rol is double clicked by mouse. b) MouseDoubleClick d) MouseEnter
	2) method terminates the example a) Abort () c) Suspend ()	xecution of thread. b) Start () d) Sleep ()
	3) specially designed for accessing a) For loopc) Do-while loop	ng the value of an array or a collection. b) While loop d) Foreach loop
	 4) compiler compiles MSIL i a) Just In Time c) Dot.Net Compiler 	
	5) Which of the following method is used place in arraylist?a) Remove()c) Delete()	to remove the element at the specifiedb) RemoveAt()d) RemovePosition()
	6) control is used to select onea) CheckBoxc) RadioButton	option from a set of options. b) ListBox d) None of these
	7) The DataAdapter object is used as an object and the data provider.a) True	intermediary between the DataSet b) False
	8) Which of the classes provide the operations console C#.NET? a) System.Array c) System.ReadLine	,
	9) Sealed class cannot be inherited.a) True	b) False
	10) The try block followed by the multiple a) True	catch blocks b) False
	11)) JIT stands for just in Time compiler.a) True	b) False

	12)is read only, forward only s a) DataReader c) Dataset	b)	am of data from database. DataAdapter None of above	
	13))Which of the following converts a type to a) ToInt64 c) ToSingle	to s b)		
	14]	Storage locations used by computer measurement application is a) Pointers c) Variable	b)	ory to store data for usage by an Constants None of these	
Q.2	b)	What is a window service? Explain in d What is generic class? Explain with diff What is Boxing and Unboxing? Explain	ere	nt examples.	05 05 04
Q.3	b)	What is Exception? Explain importance try, catch and finally block.			05 05 04
Q.4	b)	What is Lambda expression? Explain types of lambda expressions.			05 05 04
Q.5	•	1) Checkbox 2) ComboBox 3) ListBox 4) TextBox			07
Q.6	•	Create a windows application for addin What is event? Explain Multicast event	_	•	07 07
Q.7	,			14	

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B.C.A. (Semester - V) (Old) (CGPA) Examination Nov/Dec-2018

		LINUX AND SHELL P	
Time:	21/2	2 Hours	Max. Marks: 70
Instru	ıcti	ons: 1) Q.1 and Q.7 are compulsory.2) Attempt any two questions from 3) Attempt any one questions from	
Q.1		In what file can you specify which users via FTP? a) /etc/ftpusers c) /etc/ftpaccess	are not allowed to access a system b) /etc/hosts.deny d) All of the above
	2)	The location for subdirectories for local pand administrative commands is ina) /temp c) /opt	-
	3)	Case statement ends with a) end c) esac	b) end case d) None of these
 4) The command "chmod 532 computer" is equivalent to a) chmod u=5, g = 3, o = 2 computer b) chmod a=532 computer c) chmod u=rx, g=wx, o=w computer d) chmod ugo=532 computer 5) You need to change some settings on your Apache server. Which is the tool to use for logging in remotely? a) rsh b) ssh c) rlogin d) telnet 		equivalent to	
		tool to use for logging in remotely?	·
	6)	How would you avoid accidentally remova) rm -i c) rm -a	ring files? b) rm –chk d) rm –r
 7) What is the purpose of the >> operator? a) Used to send the output of one command becomes the input of a second command. b) Used to send both input and output to the same file. c) Used to overwrite the contents of a file. d) Used to append data to a file without overwriting it. 8) Which of the following below are true functionalities of shell? a) Authenticates user b) Interprets commands c) Allocates time and memory to programs 		o the same file. e.	
	9)	d) Only a and bWhich one of the following is used to repa) Oc) r	lace a single character in "vi"? b) x d) N

	a) Socket b) Soft link c) Inode d) FIFO	
	11)To create a group use command. e) Addgroup f) Groupadd g) Create group h) None of the above	
	12)Which of the following is generally regarded as the standard GUI for Linux? a) Red Hat Desktop b) CDE c) GNOME d) Star Office	
	13)Which type of security provide by Linux? a) Login & password b) File permission c) File encryption d) All of these	
	14)"?" Wild character is used for matchingcharacter. a) One or more	
Q.2	a) What is Operating System? Explain Linux OS Structure.b) How to create archive or tar file in Linux?c) Explain the different types of Shell.	05 05 04
Q.3	 a) Explain Output of following command. 1) Is > Ipr 2) cut -d " " bca sort uniq -d 3) find -size 10 -print 4) tail -c14 bca 5) cut -f 2,7 bca b) What is shell script? Give its Advantages. c) Write a short note DHCP. 	05 05 04
Q.4	 a) Explain the Linux distributions. b) Explain different boot loaders. c) Give the use and example of following commands. 1) Iprm 2) ping 	05 05 04
Q.5	a) Write a shell script to check entered number is Armstrong or not.b) Explain the job control facilities in Linux. Write the commands for each facility.	07 07
Q.6	 a) Write a menu driven shell Script 1) To Sort a file by 5 field with 2 column 2) To assign the Write & Read permission to a owner, add execute to all 3) To remove directory with its subdirectories. 4) Find files from current directory by inode number. b) What are the three mode of vi editor and briefly describe Exit mode. 	07
Q.7	 Write short notes on :- (any two) a) Role of system administrator b) Mounting and Unmounting Hard drive device c) Group management commands 	14

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B.C.A. (Semester - V) (Old) (CGPA) Examination Nov/Dec-2018

		INTRODUCTION TO DATA	ΜI	NING & WAREHOUSING
Time:	2½	Hours		Max. Marks: 70
Instru	ıctio	ons: 1) All questions are compulsor 2) Figures to the right indicate	-	marks.
Q.1	C h	noose correct alternatives:of the following is not a a) Metadata c) Component Key	b)	mponent of a data warehouse. Current Detail Data Summarised Data
	2)	The partition of overall data wareho a) Data Mart c) Data Cube	b)	e is Database All of these
	3)	The next stage to data selection in a) Data Coding c) Data Reporting	b)	D process Data Cleaning Data Visualisation
	4)	In Data warehousing, noise is refer a) Data Repetition c) Meta Data	b)	
	5)	Any subset of a frequent set is a frequent set is a frequent set is a frequent set by Maximal frequent set c) Downward closure property d) None of these	equ	ent set. This is
	6)	refers to the process of d a) Text Mining c) Database Mining	b)	ing high-quality information from text. Web Mining Spatial Mining
	7)	 A data warehouse is a) Contains only current data b) Contains numerous naming corc. c) Updated by end users d) Organized around important su 		
	8)	of the following is a pre a) Association Rule c) Summarization	b)	ive model Regression Clustering
	9)	The core of the multidimensional mof a large set of facts and a number a) Data Model c) Data Cube	r of b)	•
	10)Confidence is nothing but subset (spercentage of transactions in the day). True	átal	

	11). Distance-related data can be mineda) Web Miningc) Text Mining	d using technique. b) Unstructured Mining d) Spatial Mining	
	12)Spreadsheet is one of visualization ta) True	echnique used in data warehousing. b) False	
	13)3. Data mining can also applied to daa) Sequencec) Data Stream	ata forms such as b) Network d) All of These	
	14)Snowflakes scheme consist of multipa) True	ole fact tables. b) False	
Q.2	Answer the following:a) What is spatial data mining? Explainb) What is Data Cube technology? Expused in data cube.		07 07
Q.3	Answer the following:a) What kind of data you can mine? Exb) Explain different component used in	•	07 07
Q.4	Attempt any one:-a) What is data pre-processing? Why it preprocessing technique in detail.b) Explain in detail different significant in the significant in the	·	14
Q.5	Attempt any one:- a) What is Association Rule? What is no frequent item sets from following tab min_confidence=7 /9)		14

Tr. ID	List of Items
T1	M1, M2, M5
T2	M2, M4
T3	M2, M3
T4	M1, M2, M4
T5	M1, M3
T6	M2, M3
T7	M1, M3
T8	M1, M2, M3, M5
T9	M1, M2, M3

b) Explain Data mining functionality and issues in data mining in detail.

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B.C.A. (Semester - V) (Old) (CGPA) Examination Nov/Dec-2018 MANAGEMENT INFORMATION SYSTEM

		MANAGEMENT INFO	RMATION SYSTEM	
Time	: 2½ Ho	urs	Max. Marks: 70	
Instr	uctions	: 1) Q.1 and Q.7 are compulsory.2) Attempt any two questions from 3) Solve any one questions from 6		
Q.1	•	pose the correct alternatives:ls a component.	10	
	.,	a) Hardwark c) Information	b) Hardwared) None	
	2)	a) Data c) People	organization. b) User d) Information	
	3)	A manager has overall all all all all all all all all all	ullocation and distribution of sections. b) Power d) Lead	
	4)	is a set of processes relationship with customer. a) CRM c) SMS	and technology for managing a b) SCM d) None	
	5)	,	b) Redundancy d) Clustering	
	6)	ES stands for a) Export System c) Easy System	b) Expert Systemd) None	
	7)	KMS stands for a) Knowledge Measurement System b) Knowledge Management System c) Knowledge Message System d) Knowledge Movement System	em	
	8)	Strategic information is required a) Top Management c) Lower Management	b) Middle Management d) None	
	9)	SCM stands for a) Supply Cyber Management c) Supply Client Management	b) Supply Chain Managementd) None of the above	
	10) is characteristics of info a) Relevant c) Incomplete	ormation system. b) Environment d) Unavailable	

	 State true or False OLAP stands for On Line Application Processing The security challenges are met through prevention, limitations and protection. The lower management is concerned with actual administration. IS stands for Identification System. 	04
Q.2	 Answer the following (Any Two): a) Describe the decision making life cycle. b) Explain the characteristics of DSS. c) Explain the levels of organization. 	14
Q.3	 Answer the following (Any Two): a) Write down the role of manager in an organization b) Write down the features of an organization. c) Explain the features of SCM 	14
Q.4	 Answer the following (Any Two): a) Write down advantages and disadvantages of ESS. b) Write down advantages and disadvantages of ERP c) Explain the characteristics of computerized MIS. 	14
Q.5	a) Write down advantages and disadvantages of CRM.b) Explain the applications in Hotel Management	07 07
Q.6	a) Explain the applications in Hospital Managementb) Explain the System Vulnerability.	07 07
Q.7	 Write a short note on (any Two): a) Benefits of BIS b) Security Control c) Objectives and Characteristics of MIS 	14

Seat	Sat	D
No.	Set	

B.C.A. (Semester - VI) (CGPA) Examination Nov/Dec- 2018 ADVANCED JAVA - II

	ADVAIGED SAV	^ –	11	
Time: 21	∕₂ Hours		Max. Marks: 7	70
Instruct	ions: 1) Q.1 and Q.7 are compulsory.2) Solve any two questions from Q.2 to 3) Solve any one question from Q.5 and 4) Figures to the right indicate full marks	Q.6		
	noose correct alternatives: Which JSTL tag removes the variable from escope a) <c:set> c) <c:delete></c:delete></c:set>	b)		14
2)	The syntax of scriptlet tag element. a) <%@ %> c) <%= %>	,	<% %> <%! %>	
3)	All Hibernate annotations are defined in the _ a) javax.hibernate.* c) javax.persistence.*	b)	package. javax.hibernate.annotation.* None of these	
4)	object can be used to get initiali configuration file (web.xml) a) application c) both a) and b)	b)	on parameter from config none of these	
5)	WAP is designed for a) Internet explorer c) Micro browser	,	Web browser Macro browser	
6)	Which JSP Action Element is used to forward another resource. a) jsp:include c) both (a) and (b)	b)	request and response to jsp:forward none of these	
7)	A JSP can be embedded HTML well as XML a) True		s. False	
8)	Which is not a Annotation in Hibernate. a) @Entity c) @Column	b) d)	@Table @hibenate	
9)	Which JSP tag is used to run an applet progra) jsp:useBeab c) jsp:applet	b)	jsp:plugin jsp:set	

a) JSP implicit object fout is an object ofa) JspWriterc) OutputStream	class. b) PrintWriter d) Object	
11)) Which is /are types of Inheritance Mappinga) Table per Hierarchyc) Table per subclass	in hibernate. b) Table per concrete d) All of these	
12) Which is /are true about spring?a) an open source frameworkc) developed by Rod Johnson in 2003	b) a lightweightd) All of these	
13) SimpleJdbcTemplate offers a convenient baa) Vectorc) Map	tch update method in the form of: b) Set d) List	
14)TLD stands for Tag Library Definition.a) True	b) False	
b) Explain WAP models.		14
b) What is ORM? Explain use of ORM in details		14
Attempt any two of the followings:-a) Explain Hibernate Annotation.b) Write a program to display current date and tc) Explain JSP life cycle with suitable example.	ime in JSP (use custom tag)	14
Intostd table using Hibernate.		07 07
a) Explain hibernate inheritance mapping.b) Explain steps to create Spring Application wi	h example.	07 07
Write short notes on the following (Any two)a) Advantages of JSP over servlet.b) Internationalizationc) Spring framework		14
	a) JspWriter c) OutputStream 11)) Which is /are types of Inheritance Mapping a) Table per Hierarchy c) Table per subclass 12) Which is /are true about spring? a) an open source framework c) developed by Rod Johnson in 2003 13) SimpleJdbcTemplate offers a convenient bata) Vector c) Map 14)TLD stands for Tag Library Definition. a) True Attempt any two of the followings:- a) Explain JSTL networking core tags with examb) Explain WAP models. c) Write a JSP page to display simple 'applet' per Attempt any two of the followings:- a) Explain different types of JSP directive elements by What is ORM? Explain use of ORM in details c) What is spring? Explain advantages and disa. Attempt any two of the followings:- a) Explain Hibernate Annotation. b) Write a program to display current date and the complex of the program to store student information. Intostd table using Hibernate. b) Explain 'ResultSetExtractor' interface of spring a) Explain hibernate inheritance mapping. b) Explain steps to create Spring Application with Write short notes on the following (Any two) a) Advantages of JSP over servlet. b) Internationalization	a) JspWriter c) OutputStream d) Object 11) Which is /are types of Inheritance Mapping in hibernate. a) Table per Hierarchy b) Table per concrete c) Table per subclass d) All of these 12) Which is /are true about spring? a) an open source framework b) a lightweight c) developed by Rod Johnson in 2003 d) All of these 13) SimpleJdbcTemplate offers a convenient batch update method in the form of: a) Vector b) Set c) Map d) List 14) TLD stands for Tag Library Definition. a) True b) False Attempt any two of the followings:- a) Explain JSTL networking core tags with example. b) Explain WAP models. c) Write a JSP page to display simple 'applet' program. Attempt any two of the followings:- a) Explain different types of JSP directive elements with example. b) What is ORM? Explain advantages and disadvantages of spring. Attempt any two of the followings:- a) Explain Hibernate Annotation. b) Write a program to display current date and time in JSP (use custom tag) c) Explain JSP life cycle with suitable example. a) Write a program to store student information such as rollno,sname,class,etc. Intostd table using Hibernate. b) Explain 'ResultSetExtractor' interface of spring JDBCTemplate. a) Explain hibernate inheritance mapping. b) Explain steps to create Spring Application with example. Write short notes on the following (Any two) a) Advantages of JSP over servlet. b) Internationalization

Seat	Set	В
No.	Set	

B.C.A. (Semester - VI) (CGPA) Examination Nov/Dec-2018 CYBER LAWS AND SECURITY CONTROL

		CIBER LAWS AND SECURITY CONTROL	
Time	: 2½	Hours Max. Marks: 70	,
Instr	uctic	ns: 1) Q.1 and Q.7 are compulsory. 2) Attempt any two questions from Q. 2, Q.3 and Q.4. 3) Attempt any one question from Q. 5 and Q.6. 4) Figures to the right indicate full marks.	
Q.1	A)	Choose the correct alternatives: - 1) It is stealing ideas or creations of others. a) Plagiarism b) Intellectual Property Rights c) Piracy d) All of above	,
		 2) Information Technology Act in India is amended in a) 2000 b) 2004 c) 2008 d) 2010 	
		 3) Firewalls are used to protect against a) Data driven attack b) Fire attacks c) Virus attacks d) Unauthorized access 	
		 4) The altering of data so that it is not usable unless the changes are undone is a) Compression b) Biometric c) Encryption d) None of these 	
		5) Authentication is a) Modification b) Insertion c) Identify user d) None of these	
		 6) Which of the following is a cyber crime against individual? a) Email spoofing b) Cyber Defamation c) Cyber stalking d) All of above 	
		7) backup all selected data. a) Full b) Incremental c) Copy d) None of these	
		8) Scope of e-commerce is a) Global b) Local c) Both a and b d) None of these	
		9) converted data from plain text to cipher text. a) Decryption b) Encryption c) Both a and b d) EDI	
		10)Linux is software. a) Public Domain b) Freeware c) Both a & b d) All of above	
Q.1	B)	State true & false. 1) Internet commerce cannot used for once-off transactions 2) Data means representation of facts & instructions. 3) Only private key is used in digital certificate 4) Bugs mean software error.	•

Q.2	b)	Explain information society. Explain digital signature in detail. Write a short on copy right	05 05 04
Q.3	b)	What is back-up? Explain its types. What is model law? Explain its scope & objective. Write a short note on information society	05 05 04
Q.4	b)	What are the duties of subscriber of digital signature certificate? What is e-commerce? Explain its application. Short note on Cyber crime.	05 05 04
Q.5	•	Write a note on security aspects and contract aspect of cyber law. Explain difference between intranet & extranet security.	07 07
Q.6	Í	Explain about encryption techniques & differentiate between secret key encryption & public key encryption. Explain information technology 2000.	07 07
Q.7	Wı	rite short notes on: -	
	,	EDI	04
	•	Security audit	04
	,	Authentication	04
	d)	E-commerce	02

Seat	Set	D
No.	Sei	<u> </u>

B.C.A. (Semester - VI) (CGPA) Examination Nov/Dec-2018 SOFTWARE PROJECT MANAGEMENT

	SOFTWARE PROJECT	MANAGEMENI	
Time: 21/2 H	lours	Max. Marks: 70	1
Instruction	1) Q.1 and Q.7 are compulsory.2) Attempt any two questions from Q3) Attempt any one question from Q4) Figures to the right indicate full m	.5 and Q.6.	
, 1	c) Complex Path Method 2) pass is carried out to ca each activity may be started and com	Ilculate the earliest dates on which appleted.	
	a) The backward passc) The blackwork pass.		
3	Which of the following is/are conside process?a) Customerc) External to the project team	b) Internal to the project team	
4			
5	The return on investment (ROI), alsoa) Accounting rate of returnc) Audit rate of return	b) Accounting return	
6	 a) DSDM stands for a) Dynamic Study development Met b) Diamond System Development M c) Dynamic System Development M d) Dynamic System Deployed Metho 	lode ethod	
7	 modifying objectives. a) Project steering committee c) Developer 	for setting, monitoring and b) Designer d) Analyst	
1 2 3 4 5 6	A plan for an activity must be based (2) SSADM stand for structured system (3) Software quality assurance is an umber of the waterfall model not begins with for PERT Stands for Program Entry and (3) Gantt chart is not simplest and oldes progress. (7) Elapsed time is the time between the	analysis and design. orella activity. easibility study. Review Technique. t technique for tracking project	

Q.2	a) b)	What are the activities covered by software project management? What is V-Process model?	07 07
Q.3	a) b)	Where are estimates done of software project? Explain the Plans, Methods and Methodologies.	07
Q.4	a) b)	What is risk management? Explain its planning in detail. Explain the Oldham-Hackman job characteristics model.	07 07
Q.5	a) b)	Explain the step wise project planning in detail. What is software process model? Explain waterfall model in detail.	07 07
Q.6	a) b)	Explain cost benefit evaluation techniques in detail. Explain the COCOMO model in detail.	07 07
Q.7	Write note on (any four)		
	a)	Leadership	
	b)	Stakeholders	
	c)	Software quality Measures	
	d)	Cash flow forecasting	
	e)	Setting Objectives and Goals of project	

Seat	Set	D
No.	Set	

		B.C.A. (Semester - VI) (CGPA) I WEB TECHNO			
Time	21/2	∕₂ Hours		Max. Marks: 70)
nstr	ucti	ions: 1) All questions are compulsory. 2) All questions carry equal marks			
Q.1	C h		ion Ir	14 Information in Current Application	Ļ
		Domain. a) SessionData c) InProc	,	SessionServer SqlServer	
	2)	a) Timer c) ScriptControl	b)	CExtensions controls. ScriptManager ScriptAjax	
	3)	personalization allows the identifying themselves. a) Anonymous c) Form	b)	to personalize the site before Windows User	
	4)	event in calendar control valendar. a) EachDay c) SelectDate	b)	each and every day in the DayRender EachDate	
	5)	 UDDI is nothing but a) Universal Description, Discovery and Integral Data, Discovery and Integral Unique Data, Description and Integral Unique Data, Discovery and Integral 	ratio atior	n	
	6)	validation control is used to even numbers. a) RegularExpression c) Custom	b)	eck whether entered data value is RequireField Compare	
	7)	 AJAX is nothing but a) Advance Javascript and Xml b) Auto Javascript and Xml c) Asynchronous JSP and Xml d) Asynchronous javascript and Xml 			
	8)	Default value for ShowCheckBoxes pro a) Root c) All	b)	of TreeView control is Leaf None	
	9)	The element specifies the configuration section. a) System c) Configuration	b)	System.Web System.Configuration	

	10) Every master page must contain at least one <asp:contentplaceholder></asp:contentplaceholder>			
	tag. a) True	b) False		
	11) element of Advertisement	file specify category of		
	advertisements.	h) Altornatatovt		
	a) Impressionc) Filter	b) Alternatetextd) Keyword		
	12) property of BulletedList co	ntrol is used to display item in the		
	form of HyperLink a) SelectionMode	b) DisplayMode		
	c) HyperlinkMode	d) BulletStyle		
	13) folder is used to display conbrowser's language.	ntent of our Web page according to		
	5 5	b) App_ WebReferencesd) App_Data		
	14) method of FileUpload contr	ol is used to upload file at server		
	location. a) Upload() c) SaveAs()	b) Save() d) Store()		
Q.2	Attempt the following.			
	 a) What is Dynamic compilation? Explain c ASP.Net. 	ompilation technique used is	07	
	b) Why Master page required? Explain nes	ted master pages with example.	07	
Q.3	Attempt the following:-			
	a) Explain detail steps used in using web s		07	
0.4	b) Explain client and server architecture of	AJAA.	07 14	
Q.4	Attempt the following. (Any One)a) Explain with example1) List class2) Button Class		14	
	b) Explain SiteNevigation techniques with 6	example.		
Q.5	Attempt the following. (Any One)a) Explain with example1) Membership and role provider2) Web Service		14	
	b) What is state management? Explain different in detail.	erent state management techniques		