Reg. No. ☐☐☐☐☐☐☐☐☐☐☐☐

B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2023

Seventh Semester

OE18801 – IT ESSENTIALS FOR ENGINEERS

(Common to all branches except IT)

(Regulation 2018)

TIME: 3 HOURS   **MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Design the web-sites for simple web applications.	6
CO 2	Develop web based applications using suitable client side and server side web technologies.	6
CO 3	Examine the database connectivity with an appropriate database.	4
CO 4	Distinguish the basic features of Unix, Linux and Windows OS.	4
CO 5	Identify the suitable mobile communications technology for applications.	3

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	Compare Static website with Dynamic website.	1	2
2.	Write a HTML code to display the paragraph along with the floating image as below: SVCE is one of the top ranked engineering institutes affiliated to Anna University. SVCE is offering 11 UG programs and 7 PG programs and programs are accredited by NAAC and NBA.	1	3
3.	Write a JavaScript program to change over the color of a text when the cursor moves.	2	3
4.	Ram is debugging a web application which was written in PHP. He identified a logical error in a statement in a particular function. Write the PHP statement to display the line number and function name.	2	3
5.	Illustrate the use of data model and mention any two data models.	3	3
6.	Consider the college database system has department table with set of attributes. Write an SQL query to find all the instructors in IT department.	3	3
7.	How the processes are managed by kernel in BSD UNIX systems?	4	4
8.	Summarize the Design principles of LINUX operating system.	4	2
9.	List out the disadvantages of GSM cellular network technology.	5	2
10.	Examine the hidden Terminal Problem with an example.	5	3

PART- B (5 x 14 = 70 Marks)

				Marks	CO	RBT LEVEL
11. (a)			Create a HTML page to display student details such as personal, educational, co-curricular and extracurricular details with neat web page layouts. Use different HTML elements such as list, table to display the student details.	(14)	1	3
			(OR)			
(b)	(i)		Organize the types of authoring tools with examples for creating webpages and sites.	(7)	1	3
	(ii)		Explain the process involved in fetching the relevant web site when an URL is given in the web browser.	(7)	1	3
12. (a)	(i)		Write a PHP program to declare an array of integers, to sort them in ascending order and to display the sorted array using for-each.	(7)	2	3
	(ii)		Write a PHP program embedded in HTML to convert values between Fahrenheit and Celsius.	(7)	2	3
			(OR)			
(b)	(i)		Write a PHP program to connect student database using MySQL DBMS and perform insertion, update and selection operations using PHP program and display the results.	(7)	2	3
	(ii)		With suitable example, explain the different type of arrays supported by PHP.	(7)	2	3
13. (a)	(i)		Explain in detail about relational database and create, add and display the records of the following student table with necessary constraints:	(7)	3	3

STU_ID	NAME	SUB1	SUB2	SUB3	TOTAL	AVERAGE

				Marks	CO	RBT LEVEL
	(ii)		To maintain the total and Average attribute in the following student table, create the trigger to handle insert on student details in student table.	(7)	3	3

STU_ID	NAME	SUB1	SUB2	SUB3	TOTAL	AVERAGE

(OR)

(b)	**(i)**	Explain the different components available in database systems with neat sketch.	(7)	3	3
	(ii)	Write a Java program using JDBC metadata features that prints all the department name and their average salaries in the university database. Analyze each of the statements in the java program.	(7)	3	3
14. (a)	**(i)**	Explain Memory Management and I/O Management System of Windows 8 Operating System.	(14)	4	2

(OR)

(b)	**(i)**	Explain Process Management and File System of LINUX Operating System.	(14)	4	2
15. (a)	**(i)**	Explain with a block diagram in detail how different services are provided by GSM.	(7)	5	3
	(ii)	Briefly discuss how call roaming service is carried out in cellular network.	(7)	5	3

(OR)

(b)	**(i)**	Illustrate the cell phone frequency reuse technique in detail.	(7)	5	3
	(ii)	Explain the functionalities of digital cell phone components in detail.	(7)	5	3

PART- C (1 x 10 = 10 Marks)
(Q.No.16 is compulsory)

		Marks	CO	RBT LEVEL
16.	Design a personal information application which maintains your personal details, contacts, appointments, and favorite music. Choose the appropriate application design, layout, hyperlinks used for the above application.	(10)	1	5

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