Reg. No.

B.E / B.TECH. DEGREE EXAMINATIONS, MAY 2024

Fifth Semester

OE18801 – IT ESSENTIALS FOR ENGINEERS

(Common to All Branches except IT)

(Regulation 2018 / 2018A)

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.	3
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.	Describe the role of DNS.	1	2
2.	Examine how authoring tools are used in designing web content? List some examples of authoring tools.	1	4
3.	Discuss the use of $ symbol in PHP, explain with an example.	2	2
4.	Illustrate the use of 'let' variable in javascript with example program.	2	3
5.	Examine the role of keys in DBMS. List the different types of keys in DBMS.	3	4
6.	Inspect the role of trigger in DBMS.	3	4
7.	List the functions of operating system.	4	2
8.	Illustrate various equivalent system calls for Windows and UNIX operating systems.	4	3
9.	Compare and Contrast CDMA and GSM.	5	4
10.	Examine the hidden Terminal Problem with an example.	5	4

PART- B (5 x 14 = 70 Marks)

	Marks	CO	RBT LEVEL

11. (a) Construct the below given form using HTML 5 tags.　　　　(14)　1　3

(OR)

(b) Develop a HTML program to create the below given table. Also explain all the tags in detail.　　(14)　1　3

12. (a) Develop a PHP program to connect Employee database using MySQL DBMS and perform insertion, updation and selection operations using PHP program and display the results.　　(14)　2　3

(OR)

(b)	**(i)**	Develop a PHP program to check given number is palindrome or not.	**(07)**	**2**	**3**
	(ii)	Construct a PHP program embedded in HTML to convert values between Fahrenheit and Celsius.	**(07)**	**2**	**3**

13. (a)	Develop a Java program using JDBC metadata features that prints the entire department name and their average salaries in the university database. Analyze each of the statements in the java program.	**(14)**	**3**	**3**

(OR)

(b) Illustrate in detail about relational database and create, add and display the records of the following student table with necessary constraints: **(14)**   **3**   **3**

STU_ID	NAME	SUB1	SUB2	SUB3	TOTAL	AVERAGE

14. (a)	Explain Memory Management and I/O Management System of Windows8 Operating System.	**(14)**	**4**	**2**

(OR)

(b)	Explain Process Management and File System of LINUX Operating System.	**(14)**	**4**	**2**

15. (a)	Illustrate the role of GSM in telecommunication systems. Sketch a neat system architecture of GSM and explain the various sub-system in detail.	**(14)**	**5**	**3**

(OR)

(b)	Illustrate under which condition handover procedures happens in GSM. List the various types of handovers that occurs in GSM with a neat sketch.	**(14)**	**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**	**6**