



Vidya Jyothi Institute of Technology (Autonomous)

(Accredited by NAAC & NBA, Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTU, Hyderabad)
(Aziz Nagar, C.B. Post, Hyderabad - 500075)

R18

Subject Code: A22502

B.Tech. I Year II Semester Examinations-MAY 2019

SUBJECT NAME: PPS -II

BRANCH : Common to All Branches

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two *Parts A and B*.

Part A is compulsory which carries 25 Marks. Answer all the questions.

Part B consists of 5 questions. Answer all the questions.

Bloom Levels:

Remember	L1	Analyze	L4
Understand	L2	Evaluate	L5
Apply	L3	Create	L6

PART - A

ANSWER ALL THE QUESTIONS

		Bloom Levels	25M
1	Define string and write the syntax to declare the string.	1	3M
2	What is the purpose of enumerated datatype?	3	2M
3	How to initialize a structure. Explain with an example?	1	3M
4	Compare structure and union.	2	2M
5	What are the uses of pointers?	4	3M
6	Differentiate malloc() and calloc().	2	2M
7	Define Data structure. What are linear Data structures?	2	3M
8	Which Data structure comes under FIFO? Define.	1	2M
9	Write the syntax to open a file in C?	2	2M
10	Define a linked list. Write the syntax of declaring a single linked list	4	3M

PART - B

ANSWER ALL THE QUESTIONS

		Bloom Levels	50M
11.i.	Explain string manipulation functions with suitable programs	2	10M
[OR]			
ii.a)	Write a program to add two matrices?	2	5M
b)	Write a program to find whether given string is palindrome or not?	2	5M
12.i.a)	Define structure and how to access a structure? Write a program on Nested structure?	2	5M
b)	Explain the use of union with an example program	2	5M
[OR]			
ii.	How are structures passed as arguments to functions? Illustrate with suitable examples.	4	10M
13.i.a)	What is a pointer. Write a program on pointer arithmetic?	3	5M
b)	Describe call by reference with an example program?	3	5M
[OR]			
ii	Clearly explain dynamic memory allocation functions in C.	2	10M
14.i.a)	Explain stack and its operations with an example program.	3	10M
[OR]			
ii.	Define Queue? Implement its operations using an array?	3	10M
15.i.	Mention various operations on Single Linked List? Write a program to create and insert a node at the end of the list?	3	10M
[OR]			
ii.	Define File. Explain how to perform read and write operations with an example	4	10M

VJIT(A)