

COURSE CODE - 1050123

UG DEGREE EXAMINATION – JAN 2009

B.SC (IT)

PASCAL AND DATA STRUCTURE

(For Candidate Admitted from Calendar 2007 Onwards)

Time: 3 Hours

Max.Marks:75

Section-A

Answer All the Questions:

15 X 1 = 15

1. What is statements?
2. What are input/output statements in Pascal?
3. Define operators
4. Define Records.
5. What is file?
6. What is pointer?
7. Write the definition of a Data structure
8. What is composite data type?
9. What are operations in stack?
10. What is meant by circular lists?
11. Give the operations in Queue?
12. Write the expansion of FIFO?
13. Define? Graph.
14. What is meant by Binary tree?
15. What are the types of tree traversals?

Section-B

Answer any Five Questions

5 X 6 = 30

16. a. Explain about formatting output data?

(Or)

b. Discuss in detail about data types in Pascal.

17. a. Differentiate procedures and functions?

(Or)

b. Explain about enumerated data types?

18. a. Explain the operation on STACK implementation

(Or)

b. Discuss in detail on circular Queue.

19. a. Explain the necessary operations on doubly linked list.

(Or)

b. Explain about doubly Linked list.

20. a. Explain about tree traversals and its types.

(Or)

b. Define Graph and its types?

Section- C

Answer any Two Questions

2 X 15 = 30

21. Explain about the structure of PASCAL program.

22. Discuss in detail about Arrays and its implementation

23. How the implementation of stack and Queue using Arrays.

Explain.

24. Write a Pascal program to polynomial addition.

25. Write the DIJISRA'S algorithm for final king shortest path