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L – 2448

Reg. No. : .....

Name : .....

**Fourth Semester B.A. Degree Examination, May 2021**

**First Degree Programme Under CBCSS**

**Music**

**Complementary Course IV – Sanskrit**

**SK 1431.3 — POETRY AND NATYA SASTRA**

**(2019 Admission Regular)**

Time : 3 Hours

Max. Marks : 80

Instruction : Answer should be written either in Sanskrit or in Malayalam or in English.

I. Answer the following questions in **one** or **two** sentences.

1. पुत्रकामेष्टि आरेभे - कः ?
2. दशरथस्य कति भार्याः आसन् ?
3. इष्टान् वरान् वत्रिरे - के ?
4. मयसुता का ?
5. अभिनयानि कति ?
6. नाट्यशास्त्रस्य कर्ता कः ?
7. शृङ्गारस्य स्थायिभावः कः ?

P.T.O.

9. What is a graph?
10. Name the different types of tree traversal.

(10 × 1 = 10 Marks)

SECTION – B (Short Answer)

(Not to exceed **one** paragraph, answer any **eight** questions. Each question carries **two** marks).

11. What do you mean by space complexity?
12. What is column major ordering?
13. What are the advantages of linked list over arrays?
14. What is a binary search tree?
15. What is a connected graph?
16. What are the applications for a stack?
17. What is Big oh notation?
18. How will you create a node in a singly linked list?
19. What do you mean by linked list representation of binary tree?
20. What is a sparse matrix? How will you represent sparse matrix using linked list?
21. How will you represent polynomials using arrays?
22. What do you mean by dynamic memory allocation?

(8 × 2 = 16 Marks)

### SECTION – C (Short Essay)

(Not to exceed **120** words, answer any **six** questions. Each question carries **four** marks).

23. Explain the characteristics of an algorithm.
24. Explain two dimensional arrays.
25. Explain with algorithm, the PUSH operation on stack.
26. Differentiate prefix and postfix notations.
27. Write down the algorithm to delete an element from a circular queue.
28. Explain a circular singly linked list.
29. Explain AVL trees.
30. Explain linked list representation of a graph.
31. Write the algorithm for quick sort.

**(6 × 4 = 24 Marks)**

### SECTION – D (Long Essay)

(Answer any **two** questions. Each question carries **15** marks).

32. Explain with algorithm the concept of binary search.
33. Explain with algorithms the operations on Queue.
34. Explain Depth First Search Algorithm.
35. Explain merge sort algorithm.

**(2 × 15 = 30 Marks)**

41. रामभरतसमागमः।
42. रसभाववैविध्यम् निरूपयत।
43. Life and works of Muthuswamidikshita.
44. श्रीरामोदन्तस्य वैशिष्ट्यम् निरूपयत।

(2 × 15 = 30 Marks)