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Roll No.

rial No.:

873

B. Tech (Computer Science & Engineering)

8th Semester 1117

Co-432 Programming Languages

(From the Session 2016-17)

ne allowed: 3 Hours

Maximum Marks: 60

te: Attempt any five questions by selecting at least one question from each section. Each question carries 12

marks.

SECTION-A

What are elementary data types? Explain specification

and implementation of elementary data types available in

programming languages by giving suitable examples.

p.T.O.

12

3/30

- 2. (a) What is type casting? Explain different methods of type casting available in programming languages. 6
 - (b) What is enumeration data type? Why it is required?

 Explain enumeration by providing a suitable example in any programming language.

SECTION-B

- 3. Describe different types of operations which can be applied over the following structured data types: 12
 - (i) Sets
 - (ii) Strings
 - (iii) Files
 - (iv) Union

What are generic data types? Describe how generic (a) data types are applied over functions. 6

(b) Explain the concept of abstraction, encapsulation and information hinding by giving suitable examples.

SECTION-C

activation record. With the help of a suitable example and diagram explain how activation records are created in the 12 case of recursion.

What is activation record? Describe the structure of

Describe following parameter passing method with the help 12 ^{of sutiable programming examples:}

(i) Call by value

p.T.O. (ii) Call by value-result

(iii) Call by reference

SECTION-D

- 7. Describe different constructs required for working with following programming languages:
 - (i) Object oriented programming languages
 - (ii) Functional languages
- 8. Differentiate among the following storage management schemes in programming languages:
 - (i) Heap storage and stack storage management
 - (ii) Programmer and system controlled storage management