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## **IT-5002-CBGS**

### **B.E. V Semester**

Examination, June 2020

### **Choice Based Grading System (CBGS)**

### **Principles of Programming Languages**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) Each question carry equal marks.

1. a) What are the different factor that influence the evolution of programming languages?  
b) Explain in detail different stages in language translation.
2. a) Discuss the various programming language paradigm.  
b) What is sequence control? Explain various categories of sequence control?
3. a) Define pointer? Explain various design issues of pointers in C/C++.  
b) Explain various attributes of a variable? What do you understand by binding of a variable?
4. a) Explain different conditional and looping statements used in C language.  
b) What do you understand by coroutines? How do we achieve control transfer between coroutines?

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5. a) State various components of referencing environment.  
b) Explain stack dynamic local variables and static local variables with their advantages and disadvantages.
6. a) Explain different elements which require storage during program execution.  
b) What is Monitor? What are its advantages and disadvantages over semaphores?
7. a) Explain Heap based storage management?  
b) Explain the rules for expression evaluation in function programming.
8. a) What are exceptions? How are they handled in Java?  
b) Write short notes:
  - i) 4 GL
  - ii) Basic elements of prolog.

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