

- (iii) Write note on virtual computers.
- (iv) Discuss various classes of binding time.
- (v) What do you understand by software simulated computers?
- (vi) What are language translators? Discuss the need of language translators.
- 3 Attempt any two parts of the following: $10 \times 2 = 20$
 - (i) Describe sequence control and its types. What are recursive subprograms?
 - (ii) What is parameter passing what are actual and formal parameters? Explain call by value and call by reference.
 - (iii) Describe implicit and explicit sequence control with example.
- 4 Attempt any two parts of the following: $10\times2=20$
 - (i) Describe heap storage management and its advantages.
 - (ii) Describe various syntactic criteria.
 - (iii) Differentiate interpreters and compilers.
- 5 Attempt any two parts of the following: $10 \times 2 = 20$
 - (i) Describe in detail the object oriented programming methodology and its advantages.

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- (ii) What do you understand by operating and programming environment. List various attributes of a good operating and programming environment.
- (iii) Compare C and LISP on the basis of various attributes.

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