Subject Code-6816

M.C.A. (Fifth Year) EXAMINATION

(Main/Re-appear)

(5 Years Integrated Course)

MCA-501

PRINCIPLES OF PROGRAMMING LANGUAGES

Time: 3 Hours Maximum Marks: 100

Note: Attempt any Five questions. All questions carry equal marks.

- (a) Discuss about various types of data and variables.
 - (b) Discuss various factors influencing language design.

- 3. Describe about language paradigms. Show scope rule and procedure activation in structured programming with the help of suitable example.
- What do you mean by object, class and object oriented programming? Also discuss about various concepts and design issues for 00 languages.
- What is functional programming? Describe about its applications and write a program to show functional programming.
- What do you mean by logic and logical system? Discuss various formal logical systems.

- What is Database, Relational database and SQL?
- What is parallel processing? How does this affects design of language? 10

Write short notes on the following:

- a) Abstraction
- b) Push down Automata
- c) Language design trade-off
- d) Ambiguous Grammar.

5×4=20