

R09

Code: 9A05101

B.Tech I Year (R09) Supplementary Examinations June 2017

PROGRAMMING IN C & DATA STRUCTURES

(Common to all branches)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the advantages and disadvantages of using high level languages over machine level languages.
(b) What is an integrated development environment (IDE)? Explain its features.
- 2 (a) Explain about various data types in C language with their memory and storage requirements.
(b) Write a C program to evaluate the power series.
$$E^x = 1 + x + x^2 + \dots + x^n, \quad 0 < x < 1$$
- 3 (a) Explain function with arguments and no return value with an example.
(b) What is a built in function? Explain any two built in functions.
- 4 (a) What is pointer to an array? Explain with an example.
(b) Write a program to compute the largest number and its position using pointer.
- 5 (a) Write a program in C to declare a pointer as a structure member and displaying the contents of the structure?
(b) How to pass the member of a structure to a function as an argument. Give an example?
- 6 What are the different errors that may occur during I/O operations on file? How it can be dealt in a file management system?
- 7 Write a C program implementing queue using dynamic implementation?
- 8 Define Searching and discuss in details different types of searching techniques with an example.
