

(i) Debugging

(ii) Documentation.

7. Differentiate :

(a) High level language, Assembly language, Machine language.

(b) Loader and linker.

Unit-IV

8. What is network topology? What are the various types of network topology? Discuss benefits and limitations of these topologies over one another.

9. (a) What are the modes of data transmission? Explain.

(b) What is intranet ? Describe the applications and uses of intranet.

97661-9400-(P-4)(Q-9)(16) (4)

Roll No.

97661

B.C.A. 1st Semester (New)

Examination – November, 2016

Computer & Programming Fundamentals

Paper-BCA-101

Time : 3 hours

Max. Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt **five** questions. Q. No. 1 is **compulsory**. Select **one** question from each unit. All questions carry equal marks.

1. (a) Differentiate between human being and Computer.

(b) Differentiate between primary memory and secondary memory.

(c) What is the difference between single user and multi user operating system ?

97661-9400-(P-4)(Q-9)(16) (1) [Turn Over

- (d) Differentiate between multiprogramming and multiprocessing operating system.
- (e) What is the difference between compiler and interpreter ?
- (f) What are the different types of error in programming ?
- (g) Differentiate between internet and intranet?
- (h) Differentiate between LAN, WAN and MAN.

Unit-I

2. (a) What is computer? Write a short note on 'Generation of computers'.
- (b) Explain the application of computer in the fields of education and sports.

3. Explain :
 - (a) Virtual Memory
 - (b) Flash memory
 - (c) Cache memory
 - (d) Types of ROM

97661-9400-(P-4)(Q-9)(16) (2)

Unit-II

4. (a) What is operating system? Explain the various functions of operating system.
- (b) What is computer virus and their types? How is it harmful for the security of a system.
5. (a) What do you mean by software? Explain different types of software.
- (b) Explain :
 - (i) Real time
 - (ii) Time Sharing

Unit-III

6. (a) What is structure programming ? Explain the advantages and disadvantages of structure programming.
- (b) Explain the following:

97661-9400-(P-4)(Q-9)(16) (3)

[Turn Over