

C

1

Roll No.

Total Pages : 3

311101

Mar. 2022

BCA - I SEMESTER

Computer and Programming Fundamentals (BCA-17-101)

Time : 90 Minutes]

[Max. Marks : 25

Instructions :

1. *It is compulsory to answer all the questions (1 mark each) of Part-A in short.*
2. *Answer any three questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Give the full form of the following :
SMPS, USB, EEPROM, ASCII. (1)
- (b) What is the difference between Primary Memory and Secondary memory? (1)
- (c) A sine wave completes one cycle in 100 micro seconds. What is its frequency? (1)
- (d) Define the following : Amplitude, Time Period and Frequency. (1)

- (e) What is the difference between Algorithm and Flowchart? (1)
- (f) What is a Protocol? Name any *two* protocols. (1)
- (g) What is Virtual Memory? (1)
- (h) Differentiate between High level and low level languages. (1)
- (i) Write features of Windows operating system. (1)
- (j) What types of errors occur during programming? (1)

PART-B

- 2. (a) Discuss in detail the various functional components of a computer system with the help of the block diagram. (3)
- (b) Draw a flow chart to print smallest Number out of given three numbers. (2)
- 3. (a) Write an explanatory note on Network Topology.(2)
- (b) Define an Operating System? What are various functions performed by an Operating System. (3)
- 4. Differentiate between the following:
 - (i) Application Software and System Software.
 - (ii) Problem Oriented and Procedure oriented programming Languages.
 - (iii) Assembler, Compiler, Interpreter (5)

- 5. (a) Define Computer Virus? What are different types of Computer viruses? What are characteristics of computer viruses? (3)
 - (b) What are the attributes of a good program design? (2)
 - 6. Write short note on any *five* of the following :
 - (i) Documentation.
 - (ii) Classification of Computers.
 - (iii) Modular approach of programming.
 - (iv) Modes of data transmission.
 - (v) Applications of Internet and Intranet.
 - (vi) Cache Memory. (5)
-