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Roll No.

Total Pages / 3

213104

Dec., 2018
BBA 1st Semester
COMPUTER FUNDAMENTALS
(BBA/GEN/104)

Time : 3 Hours]

[Max. Marks : 75

Instructions:

- (i) *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
- (ii) *Answer any four questions from Part-B in detail.*
- (iii) *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) Define the terms hardware, software. How these are related to each other?
- (b) What is an OS? Comment on the statement " OS acts as a good I/O interface".
- (c) Why binary system is used in data representation inside the computer? Explain briefly.
- (d) What is a cache memory? Why is it necessary?
- (e) List the main differences between single user OS and multi-user OS.

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- (f) Differentiate between Volatile and Non-volatile memory.
- (g) Write short note on any five applications of computer.
- (h) Define the terms Digital and Analog computers with suitable examples.
- (i) Write short note on flash memory.
- (j) Why we require backup memory? 10×1.5=15

PART-B

Note : Attempt any *four* questions.

2. (a) Draw a block diagram to illustrate the basic organization of computer system, and explain the functions of various units of computer system. 10
 - (b) Explain various generations and classifications of computer systems. 5

3. (a) Explain the role of Input and Output devices in Compute System. Explain working of any one input device and one output device. 10
 - (b) What are the advantages and disadvantages of primary memory over auxiliary memory. 5

4. Perform the following conversions:
 - (a) $(3AF.9D)_{16}$ to octal.
 - (b) $(1011.001)_2$ to decimal.
 - (c) $(10010.0011)_2$ to Hexadecimal.
 - (d) $(25.25)_{10}$ to Binary. 15

5. (a) What are the major function of Operating System?
How is operating system related with system software? 10
- (b) Describe the basic structure of OS. 5
6. (a) Using 1's and 2's complement method perform the following operations : 10
- $1001_2 + 0100_2$ $1010_2 - 1101_2$
- (b) Compare :
- (i) Softcopy and Hardcopy output devices.
- (ii) Impact and Non-impact printers. 5
7. Explain the role of computer in following with appropriate software :
- (a) Book Publishing.
- (b) In banking.
- (c) In education.
- (d) Data analysis. 15
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