

**UNIVERSITY OF PETROLEUM  
AND ENERGY STUDIES**



**End Semester Examination, December 2017**

**Program: BCA**  
**Subject (Course): Computer Fundamentals**  
**Course Code : CSBC1001**  
**No. of page/s: 2**

**Semester – 1<sup>st</sup>**  
**Max. Marks : 100**  
**Duration : 3 Hrs**

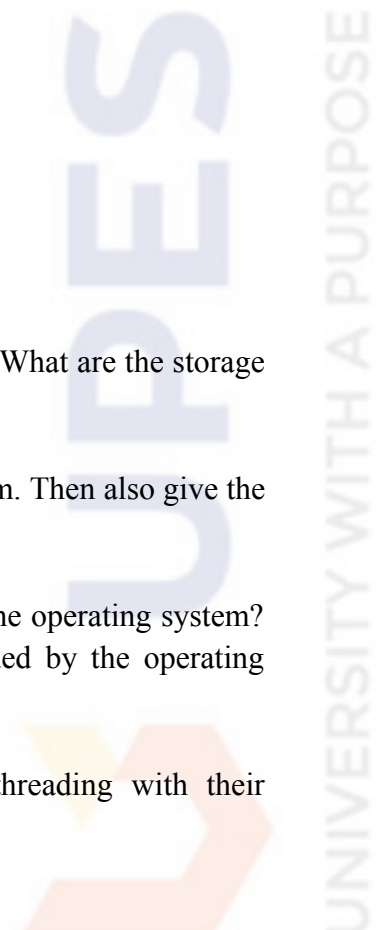
**Section A**

**All questions are compulsory [5x4=20]**

- Q.1** Define Algorithm. Write its characteristics and give an example.
- Q.2** Explain different types of programming languages.
- Q.3** What are charts in MS-Excel?
- Q.4** What is Microsoft Excel?
- Q.5** Specify the order of operations used for evaluating formulas in Excel.

**Section B All questions are compulsory [4x10=40]**

- Q.6** Magnetic tape is sequential access secondary storage device justify it. What are the storage organization of magnetic tape? How the data transfer take place in it?
- Q.7** Give the categories of Software with example. Differentiate both of them. Then also give the category of application software.
- Q.8** what is the logical Architecture of computer system with respect to the operating system? What is the need of any operating system? What are the services provided by the operating system?
- Q.9** Differentiate between multiprogramming, multi-tasking and multi-threading with their proper justification.



### Section C

All questions are compulsory [2x20=40]

**Q.10 a.** Central Processing unit is also called a brain of computer, justify your answer with proper claim in respect.

b. i. What are the types of processors? What you mean by processor speed? [6 marks]

ii. Explain few useful functions in Excel. [4 marks]

Or

Draw the diagram of basic processor and memory architecture of a computer system and describe each components.

**Q.11 a.** Mass storage device has a capacity to store as more data as anyone wants. What are the memory mechanism used to build this type of devices?

**b.** Draw the classification diagram for commonly used secondary storage device and then give a precise definition about each one of them.

Roll No: -----

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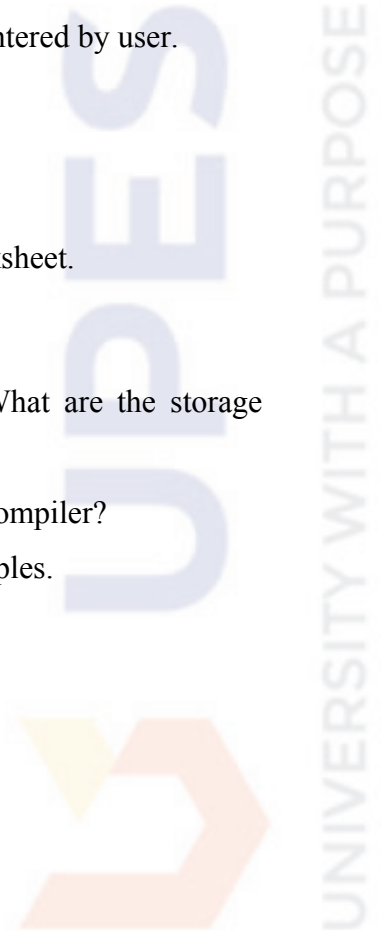
**Section A**

**All questions are compulsory [5x4=20]**

- Q.1** Write an algorithm to find the largest among three different numbers entered by user.
- Q.2** Explain different types of programming languages.
- Q.3** How can you wrap the text within a cell?
- Q.4** What is ribbon?
- Q.5** Is it possible to prevent someone from copying the cell from your worksheet.

**Section B All questions are compulsory [4x10=40]**

- Q.6** Magnetic disk is direct access secondary storage device justify it. What are the storage organization of magnetic disk? How the data transfer take place in it?
- Q.7** What do you understand by the compiler? What are various phases of compiler?
- Q. 8** Describe all types of operating system. Give their definition and examples.
- Q.9** Explain Architecture of Unix? What are various Unix Commands?



### Section C

All questions are compulsory [2x20=40]

**Q.10 a.** Differentiate between CISC and RISC processors.

**b. i.** Define Operating System. What are functions and types of operating System? [6 marks]

**ii.** What does a red triangle at the top right of a cell indicate? [4 marks]

Or

Draw the diagram of basic processor and memory architecture of a computer system and describe each components.

**Q.11 a.** Explain the fundamental units of a computer with a block diagram. Explain the basic computer organization in detail?

**b.** Define computers? Why computer is known as data processing system? What are the basic operations of Computer?