

2014

*Time : 3 Hours*

*Full Marks- 75*

*Candidates are required to give their answers  
In their own words as far as practicable*

*The questions are of equal value*

*Answer any five questions  
In which Q No.1 is compulsory*

1. Choose the correct answer of the following :

- a) Operating system manages:
  - i) Memory
  - ii) Processor
  - iii) I/O devices
  - iv) All of the above
  
- b) Unix OS is an-
  - i) Multi user OS
  - ii) Time sharing OS
  - iii) Multitasking OS
  - iv) All of the above

- c) Which of the following memory allocation scheme suffers from External fragmentation?
- i) Segmentation
  - ii) Pure demand Paging
  - iii) Swapping
  - iv) Paging
- d) Information about a process is maintained in-
- i) Stack
  - ii) Translation Look aside Buffer
  - iii) Process Control Block
  - iv) Program Control Block
- e) Which file system does DOS typically use?
- i) FAT 16
  - ii) FAT 32
  - iii) NTFS
  - iv) WNFS
- f) Which file is used to write the different types of FoxPro Program?
- i) Report file
  - ii) Label file
  - iii) Program file
  - iv) Index file
- g) Which file is used to store data and information?
- i) Memory file
  - ii) Menu file

- iii) Program file
  - iv) Database file
- h) Which command display only the current record of the current Database file?
- i) List
  - ii) Display
  - iii) Insert
  - iv) Append
- i) Which set command specifies a four digit year format?
- i) Set clock on
  - ii) Set carry on
  - iii) Set century on
  - iv) Set Decimal
- j) The maximum field width of – characters?
- i) 125
  - ii) 261
  - iii) 250
  - iv) 254
2. Explain the various categories of system software.
3. Discuss the various components of an operating system.
4. What are the states of a process? Discuss process life cycle.
5. What do you mean by non-preemptive and preemptive scheduling algorithm? Which non-preemptive scheduling algorithm suffers from starvation and under what condition?
6. Explain the advantages and disadvantages of using hierarchical directory structure.
7. Explain the characteristics of different data types used in FoxPro.

**8. Describe the following FoxPro commands with suitable examples:**

a) **DISPLAY**

b) **EDIT**

c) **DELETE**

d) **RECALL**

c) **PACK**

**9. What do you mean by Macro? How can you create and use a Macro in FoxPro?**

**10. Write short notes on the following:**

a) **Mathematical functions**

b) **Array variable**

c) **Data and Time functions**

