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**B—475—2019**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (C.S.) (Second Year) (Third Semester) EXAMINATION**

**MARCH/APRIL, 2019**

**(CBCS Pattern)**

**COMPUTER SCIENCE**

**(Operating System-VI)**

**(MCQ & Theory)**

**(Friday, 03-5-2019)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) All questions are compulsory.*

*(ii) Figures to the right indicate full marks.*

**MCQ**

1. Attempt the following : 10

(i) Main function of the command interpreter is.

(a) To get and execute next user specified command

(b) To provide interface between the API and application program

(c) To handle the files in operating system

(d) None of the above

(ii) To access the services of operating system the interface is provided by :

(a) System calls

(b) API

(c) Library

(d) Assembly Instructions

(iii) If a process fails most operating system Write the error information to a :

(a) Log file

(b) Another running process

(c) New file

(d) None of these

P.T.O.

- (iv) Programs stored in ROM are known as :
- (a) Application program
  - (b) Firmware
  - (c) Hardware
  - (d) Data
- (v) DRAM stands for.....
- (a) Data random access memory
  - (b) Dynamic random access memory
  - (c) Double register access memory
  - (d) Dynamic register access memory
- (vi) .....interface server as the link to system.
- (a) Graphical user
  - (b) Command line
  - (c) System call
  - (d) Program
- (vii) Which of the following is not true :
- (a) Kernel is the program that constitutes the central core of operating system
  - (b) Kernel is the first part of operating system to load into memory during booting
  - (c) Kernel is made of various modulus which cannot be loaded in running operating system
  - (d) Kernel remains in the memory during the entire computer session
- (viii) In paging every address generated by CPU is divided into two parts one.....and other is page off-set.
- (a) Page Id
  - (b) Process offset
  - (c) Process Id
  - (d) Page number

- (ix) What is operating system ?
- Collection of programs that manages hardware resources
  - System service provider to the application programs
  - Link to interface the hardware and application programs
  - All of the mentioned
- (x) Which one of the following is not a real time operating system ?
- VX works
  - Windows CE
  - RTLINUX
  - Palm O.S.

### Theory

2. (a) Explain computer system organization. 5
- (b) Explain memory management. 5
- Or*
- (a) Explain file concept. 5
- (b) Explain virtual memory. 5
3. (a) Explain contiguous memory allocation. 5
- (b) Explain protection in operating system. 5
- Or*
- (c) Explain communication in client server system. 5
- (d) Explain interprocess management. 5
4. (a) Explain implementation of access control. 5
- (b) Explain file sharing. 5
- Or*
- (c) Explain user operating system interface. 5
- (d) Explain operating system structure. 5