Total No. of Questions : 07

BCA (Sem.–4)
OPERATING SYSTEMS
Subject Code :BSBC-403
M.Code :10068
Date of Examination : 11-07-22

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. **Write briefly :**

   (a) Explain in brief about application programs.

   (b) Differentiatebetween program and process.

   (c) Explain in brief about context switching.

   (d) Write two advantages of virtual memory concept.

   (e) Define the term thrashing.

   (f) Explain the term disk bandwidth in brief.

   (g) Explain in brief about the term socket.

   (h) List various file attributes.

   (i) Differentiate between Sequential and Direct file access methods.

   (j) Explain in brief about the term denial of service.

SECTION-B

2. (a) Write a detailed note on the functions of an operating system.

 (b) Explain in brief about following classification of operating systems :

 (b1) Multi-user (b2) Multiprocessing

3. Explain in detail about following :

 (a) Message passing model

 (b) Shared Memory Model

4. Write a detailed note on disk storage and scheduling.

5. Explain in detail about paging scheme of Memory Management.

6. Write a detailed note on Directory structures and management.

7. Write a detailed note on following terms in relation to protection and security

 (a) Application security

 (b) Firewall

 (c) Unauthorized use

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.