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Total No. of Pages :02

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) Differentiate between 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.