

[Total Marks : 80

3×10=30

6229

BOARD DIPLOMA EXAMINATION, (C-16)

JUNE-2019

DCME—THIRD SEMESTER EXAMINATION of the operating systems PART—A [Total Main 19] [Total M

Time: 3 hours]

Instructions : (1) Answer all questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- Define operating system with example. 1.
- 2. List any five types of operating systems.
- List the various techniques of deadlock prevention. 3.
- 4. Draw the process state diagram.
- What are the scheduling criteria for CPU scheduling algorithms? 5.
- What is internal fragmentation and external fragmentation? 6.
- 7. What is overlay?
- 8. List various free space management techniques.
- 9. What is indexed allocation of disk space?
- 10. What are the ways to protect files on a single user system?

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Instructions : (1) Answer *any* five questions.

- (2) Each question carries **ten** marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- Explain (a) multiprocessor system and (b) timesharing operating systems. 11. HNADIST,A
- 12. Explain multi queue feedback scheduling algorithm.
- Explain how deadlocks can be avoided and detected. 13.
- Explain the working of long-term, short-term, medium-term schedulers. 14.
- Explain the concept of paging with examples, 15.
- Explain about multiple partition allocation 16.
- Explain the following free space management techniques : 17. TEHNIC, U
 - (a) Linked list
 - (b) Counting
- Car A.A.N.M&V.V.R.S.R.P Explain how files can be protected in detail with examples. 18.