

S.D.E.
B.C.A. (2004 Course Sem- III : SUMMER - 2019
SUBJECT : COMPUTER ARCHITECTURE & OPERATING SYSTEM

Day : Monday
Date : 13/05/2019

S-2019-4965

Time : 02.00 PM TO 05.00 PM
Max. Marks : 80

N.B.

- 1) Attempt any **FIVE** questions from Section – I and any **TWO** questions from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in *SAME* answer book.

SECTION – I

- Q.1** Differentiate between hard wired control and microprogrammed control. (10)
- Q.2** Explain in detail various addressing modes with examples. (10)
- Q.3** Explain the terms: (10)
a) Synchronization
b) Swapping
- Q.4** What is operating system? Explain various types of operating systems in detail. (10)
- Q.5** With the help of diagram, explain working of input output interface. (10)
- Q.6** Explain in detail control register organization. (10)
- Q.7** Write short notes on any **TWO**: (10)
a) Inter-process Communication
b) Peripheral Devices
c) Virtual Memory

SECTION – II

- Q.8** What is stack? Explain different operations of stack with examples and diagrammatic representation. (15)
- Q.9** Write steps of page replacement algorithm and explain with example page replacement algorithm. (15)
- Q.10** What is dead lock? Explain various condition to occur dead lock with neat diagram. (15)

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