

Total No. of Questions – [06]

Total No. of Printed Pages: 1

G.R. No.	
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DECEMBER 2021 / INSEM+ENDSEM
F. Y. M. TECH. (COMPUTER ENGINEERING) (SEMESTER – I)
COURSE NAME: OPERATING SYSTEM DESIGN
COURSE CODE: CSPA11202
(PATTERN 2020)

Time: [3 Hours]

[Max. Marks: 60]

Instructions to candidates:

- 1) All Questions are compulsory
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

- Q.1** a) What is multiplexing of resources? [5]
b) Why does a read advance the file location? [5]
- Q.2** a) What is dynamic memory allocation design problem? [5]
b) What are the two reasons a process can block? [5]
- Q 3** a) What is fragmentation? [5]
b) Compare segment registers to base and limit registers. [5]
- Q 4** a) What is virtualization? Explain the five stage virtualization process. [5]
b) What are the different types of virtualization? [5]
- Q 5** a) What are the advantages and disadvantages of compressed files? [5]
b) What standard input and standard output are? [5]
- Q 6** a) Why is a RAM disk good for temporary files that are written, read, and then deleted? [10]