

**IV -SEM CSE/IT/2019(W)**

**CST/ITT-402- OPERATING SYSTEM & SYSTEM PROGRAMMING**

**Full Marks : 80**

**Time: 3hrs**

**Answer any FIVE including Q.no.1 &2**

**Figures in the right hand margin indicates marks**

1.	Answer ALL questions.  (a) Write the functions of a Loader. (b) What is semaphore? (c) What do you mean by segmentation? (d) Define Deadlock. (e) Distinguish between File and Directory. (f) What is Assembler? (g) Write the definition of Swapping. (h) Name various types of allocating Devices. (i) Define virtual memory. (j) What do you mean by Spooling?	(2X10)
2.	Answer any <b>FIVE questions</b>  (a) Distinguish between paging and Segmentation. (b) Explain the methods of deadlock prevention. (c) What are the main functions of Operating system? Explain in brief. (d) Explain I/O Traffic Controller. (e) Describe various file accessing methods. (f) Distinguish between Compiler and Interpreter. (g) Explain types of scheduling.	(5X6)
3	Explain Banker Algorithm of multiple instances.	(10)
4.	Explain various memory allocation techniques.	(10)
5.	Define Operating System. Explain various types of Operating System.	(10)
6.	Describe different phases of Compiler.	(10)
7.	Describe the device management techniques.	(10)