PES University, Bengaluru

06/12/2018

(Established under Karnataka Act No. 16 of 2013)

End Semester Assessment (ESA) Examination

B.TECH. V SEMESTER

UE14CS302 – Introduction to Operating System

Session – August December 2018

| Time: 3 Hours | Answer All Questions | Max Marks: 100 |

1	a	What are concurrent systems? Briefly explain different types of concurrent systems.	**10 Marks**
	b	Explain different types of operating system structures with examples each.	**10 Marks**
2	a	Explain the critical section problem and its solution in detail.	**10 Marks**
	b	Explain with neat diagram architecture of multithread server and multithread models.	**10 Marks**
3	a	What is address binding? Explain binding of instructions and data to memory.	**10 Marks**
	b	Explain single processor scheduling algorithms with examples each.	**10 Marks**
4	a	Explain different types of disk allocation methods in detail.	**10 Marks**
	b	Explain briefly tree structured directories with advantages and disadvantages.	**10 Marks**

| 5 | a | Explain briefly a typical bus structure with diagram | 10 Marks |
| | b | Explain in detail interrupt-driven I/O cycle with diagram | 10 Marks |

********** ALL THE BEST **********