Code No: **RT41047**   **R13**   Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018
OBJECT ORIENTED PROGRAMMING AND OPERATING SYSTEM
(Electronics and Communication Engineering)

Time: 3 hours   Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any THREE questions from Part-B
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PART–A *(22 Marks)*

1.	a)	What is data encapsulation?	[3]
	b)	What are the types of operating systems?	[4]
	c)	Write about multi thread programming model?	[4]
	d)	What are different types of IPC?	[4]
	e)	What are the advantages of page replacement algorithms?	[4]
	f)	What is a Trojan horse?	[3]

PART–B *(3x16 = 48 Marks)*

2.	a)	Differentiate between procedure oriented and object oriented languages?	[8]
	b)	Explain in brief about applications of OOP?	[8]
3.	a)	Define Operating System? Explain in brief about the functions of an operating system?	[8]
	b)	Explain in brief about Distributed operating Systems?	[8]
4.	a)	What is Process Control block? Explain about the role of PCB in Operating system?	[8]
	b)	Differentiate between User level threads and kernel Threads?	[8]
5.	a)	Explain in brief about Contiguous memory allocation?	[8]
	b)	Differentiate between Internal and External Fragmentation?	[8]
6.	a)	Explain in brief about Swap space management with example?	[8]
	b)	Explain in brief about the key design issues for implementing Stable Storage?	[8]
7.	a)	Explain in brief about the Role of access control in system protection?	[8]
	b)	What is an Access Matrix? How it can be used for Protection? Explain some implementation Schemes?	[8]