THREE YEAR B.Sc. DEGREE EXAMINATION, OCTOBER - 2022
CHOICE BASED CREDIT SYSTEM
FOURTH SEMESTER
PART -II : COMPUTER SCIENCES
Paper -C5 : Operating Systems
(Under CBCS New Regulation w.e.f the academic year 2021-22)

Time : 3 Hours   Max. Marks :75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer any five of the following questions in Part A.

Part B consists of 5 Units. Answer one full question (A or B) from each unit (i.e. Q.No 9 from Unit-I, Q.No 10 from Unit - II, Q.No 11 from Unit - III, Q.No 12 from Unit - IV, Q.No 13 from Unit -V). Each question carries 10 marks.

Part- A

Answer any FIVE of the following. Each question carries Equal marks.   (5×5=25)

1.   What is Operating System?

2.   What is Booting?

3.   Define Process Abstraction?

4.   What is Algorithm?

5.   What is Synchronization?

6.   Define Recovery

7.   Define File Operations?

8.   Define Paging

PART - B

Answer all the questions. Each question carries equal marks. (5×10=50)

UNIT-I

9. a) Function of Operating System?

(OR)

b) Write about Workstations and hand held devices operating system?

UNIT-II

10. a) Explain preemptive scheduling algorithms?

(OR)

b) Explain the system view of the process and resources & process hierarchy

UNIT-III

11. a) Explain the necessary and sufficient conditions for deadlock?

(OR)

b) Define the process synchronization & it's types

UNIT-IV

12. a) Explain the physical and virtual address space

(OR)

b) Explain the different memory allocation strategies?

UNIT-V

13. a) Explain the security policy mechanism & protection

(OR)

b) Explain the procedure of small application development using android development framework?