

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEM-3027

M.Sc. (IIIrd Semester) Examination, 2022

CYBER SECURITY

Paper - MCSEC-304

(Operating System)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all the *ten* questions carries 1 mark each. The answer should not exceed 50 words.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer any *five* questions by selecting at least *one* question from each Unit.

Each question carries 3 marks. Answer should not exceed 200 words.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer *three* questions by selecting *one* question from each Unit. Each question carries 5 marks. The answer should not exceed 500 words.

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Section–A

1. Attempt all questions. Answers should not exceed **50** words in each question :
 - (i) What is PCB ?
 - (ii) What is Thread ?
 - (iii) What is Context Switching ?
 - (iv) What is Turnaround Time ?
 - (v) What is Deadlock ?
 - (vi) What is Page ?
 - (vii) What is Synchronisation ?
 - (viii) What is Man Command ?
 - (ix) What is shell script in Linux ?
 - (x) What is file permission in Linux ?

Section–B

Unit–I

2. What is System Calls ?
3. Define pre-emptive scheduling.
4. Explain process states.

Unit–II

5. What is Semaphore ?
6. What is Paging ?
7. Define banker's algorithm.

Unit–III

8. What is looping define according Linux ?
9. Define the steps of Linux installation.
10. What is file and user in Linux ?

Section–C

Unit–I

11. What is Operating System ? Define its structure, type and process.
12. What is CPU scheduling ? Define its algorithms in detail.

Unit–II

13. What is deadlock ? Define its detection, prevention and avoidance.
14. What is Paging ? Define the various types of page replacement technique.

Unit–III

15. What is decision-making statements ? How many statements are used in Linux ?
16. Write *ten* commands of Linux in detail with example.