

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

UGP-296

B.C.A. (Part-II) Examination, 2021

OPERATING SYSTEM

Paper - BCA 202

Time : 1½ Hours]

[Maximum Marks : 70

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा **50** शब्द)। प्रत्येक प्रश्न **2** अंक का है।

Section-B

(Marks : 4 × 5 = 20)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

(खण्ड-ब)

(अंक : 4 × 5 = 20)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए। (उत्तर-सीमा **200** शब्द)। प्रत्येक प्रश्न **4** अंक का है।

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं **तीन** प्रश्नों के उत्तर दीजिए (उत्तर-सीमा **500** शब्द)। प्रत्येक प्रश्न **10** अंक का है।

BI-1306

(1)

UGP-296 P.T.O.

Section–A

1. Attempt all *ten* questions. Answer should not exceed **50** words in each question.
 - (i) What is Operating System ?
 - (ii) Write the names of Process States.
 - (iii) What is Turnaround Time ?
 - (iv) What is Response Time ?
 - (v) Write the names of all Deadlock Conditions.
 - (vi) What is Critical Section Problem ?
 - (vii) What is Virtual Address Space ?
 - (viii) What is Kernel ?
 - (ix) Write the syntax of Chmod Command.
 - (x) Write the syntax of Cat Command.

Section–B

Note :- Answer all *five* questions (Answer limit **200** words).

2. What is Thread ? Explain different types of Thread.

Or

What is System Call ? Explain the work of system call.

3. Explain the Priority Scheduling with example.

Or

Explain the SJF Scheduling with example.

4. How to avoid Deadlock ? Explain.

Or

What is Semaphore ? Explain the work of semaphore.

5. Explain the features of Linux.

Or

Write the steps of Linux Installation.

6. Explain the different types of Shell Variable.

Or

Explain the syntax of for and while loop with example.

Section–C

Note :- Answer any *three* questions out of five (Answer limit **500** words).

7. Explain the different types of Schedulers.

8. Explain the FCFS and Round-Robin Scheduling with example.

9. Explain the Bankers Algorithm.

10. Explain the Page-replacement Technique with example.

11. Write a shell program to print Fibonacci Series.