Annual Online Examination 2020

BCA Part – III

BCA-303

COMPUTER OPERATING SYSTEM

Max.Marks : 100
Time : 3 Hrs.   **Min.Marks : 40**

Note : Section 'A', containing 10 very short-answer-type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences :

(2x10=20)

Q.1   Define process.

Q.2   Define real time operating system.

Q.3   Define functional job control language.

Q.4   Define resources in terms of operating system.

Q.5   Define Binary semaphore.

Q.6   Define counting semaphore.

Q.7   Define First Fit allocation.

Q.8   Define fragmentation.

Q.9   Define compaction.

Q.10   Define best fit allocation.

Section - 'B'

Answer the following short-answer-type questions with word limit 150-200 : (6x5=15)

Q.1   What do you understand by operating system?

or

Explain multiprogramming operating system?

Q.2   Explain operating system as resource manager.

or

Explain supervisor service control in brief.

Q.3   Explain Linked allocation in brief.

or

Explain Indexed Allocation in brief.

Q.4   Write about file typed based system.

or

Explain file directory maintenance in brief.

Q.5   Explain Master-Slave algorithm in brief.

<div align="center">or</div>

Explain multilevel queue & multilevel feedback queues in brief.

<div align="center">

Section - 'C'

</div>

Answer the following long-answer-type questions with word limit 300-350 : (10x5=50)

Q.1   Define Deadlock ? Write about deadlock detection algorithm with example.

<div align="center">or</div>

Write about deadlock characterization with example.

Q.2   Explain resource allocation graph with example.

<div align="center">or</div>

Explain Deadlock avoidance algorithm with example.

Q.3   Write about general model of file system.

<div align="center">or</div>

Explain Disk based system in brief.

Q.4   Write about file allocation methods in brief.

<div align="center">or</div>

Explain paging in brief.

Q.5   Write about Disk Scheduling algorithms.

<div align="center">or</div>

Write about process scheduling algorithms.

<div align="center">----x----</div>