

U.G. 6th Semester Examinations 2022

COMPUTER SCIENCE (General)

Paper Code : DSE-2 : E1(a) & E2(a)
(CBCS)

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

DSE-2 : E1(a) : Operating System

Group - A

Answer any *five* questions.

2×5=10

1. (a) What are the main functions of kernel?
- (b) What is thread?
- (c) Explain Round Robin scheduling algorithm briefly.
- (d) Explain the basic functionality of paging.
- (e) What is Virtual Memory?
- (f) What is meant by context switch?

Group - B

Answer any *three* questions.

5×3=15

2. What is process? What are the different states of a process? 2+3
3. Explain Deadlock in OS. What are the necessary conditions for a deadlock? 2+3
4. Differentiate between Paging and Segmentation. 5
5. State the functionalities of Job queue, and Ready queue. 5

[P.T.O.]

(2)

Or

DSE-2 : E2(a) : Object Oriented Programming using C++

Group - A

Answer any *five* questions.

2×5=10

1. (a) What is Class?
- (b) Differentiate between run time and compile time polymorphism.
- (c) What is inline function?
- (d) What is data abstraction?
- (e) Name different types of access modifiers.
- (f) Explain constructor with an example.

Group - B

Answer any *three* questions.

5×3=15

2. Show the advantages of using function overloading with an example.
3. Explain default arguments with an example.
4. Explain exception handling in C++ with example.
5. Write short notes on the following :
 - (i) Virtual function.
 - (ii) Multiple inheritance

2½×2
