

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF COMMERCE
END TERM EXAMINATION - JAN 2023**

Semester : Semester I - 2022

Course Code : BCA1001

Course Name : Sem I - BCA1001 - Fundamentals of Computers

Program : B.Sc. Economics

Date : 6-JAN-2023

Time : 1.00PM - 4.00PM

Max Marks : 100

Weightage : 50%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.

PART A

ANSWER ALL THE FOLLOWING QUESTIONS

10 X 2 = 20M

1. Who is the father of Computers?

- a) James Gosling
- b) Charles Babbage
- c) Dennis Ritchie
- d) Bjarne Stroustrup

(CO1) [Knowledge]

2. The 'heart' of the processor which performs many different operations _____

- a) Arithmetic and logic unit
- b) Motherboard
- c) Control Unit
- d) Memory

(CO2) [Knowledge]

3. Computing is the science of automatic processing of information, which can be made of a set of symbols, numbers or words, called _____ .

- a) alphanumeric expressions
- b) Symbolic expressions
- c) Digital signatures
- d) Analog Signatures

(CO2) [Knowledge]

4. _____ is relatively faster than other RAM types. (CO2) [Knowledge]
- a) SRAM
 - b) DRAM
 - c) MRAM
 - d) DDRAM
5. Operating systems manage all processes by giving each process a certain amount of time to execute, called a _____. (CO3) [Knowledge]
- a) JIT
 - b) Scheduling
 - c) quantum
 - d) BIOS
6. A disk operating system is an OS that operates on a _____. (CO3) [Comprehension]
- a) hard drive
 - b) soft drive
 - c) external drive
 - d) USB
7. _____ is a GUI . (CO3) [Comprehension]
- a) Windows
 - b) DOS
 - c) Linux
 - d) Machintosh
8. _____ act as a shared central point for all devices on a server. (CO4) [Comprehension]
- a) Network servers
 - b) Database
 - c) Local Memory
 - d) Global memory
9. _____ is a tool for writing and publishing your work. (CO4) [Comprehension]
- a) MS Excel
 - b) MS Word
 - c) MS Powerpoint
 - d) MS Access
10. ____ appear at the bottom of the Excel window. (CO4) [Comprehension]
- a) Title bar
 - b) Formula bar
 - c) Work sheet tabs
 - d) Name box

PART B

ANSWER ALL THE FOLLOWING QUESTIONS

4 X 10 = 40M

11. Enumerate and describe the computer hardware categories Examine the functions of a CPU. (CO1) [Comprehension]

12. What type of storage can be used if very large data is to be stored which can be accessed without any interference from humans, explain with suitable examples.
(CO2) [Comprehension]
13. Explain in detail Multi-Tasking/Time-sharing Operating systems with examples. Explain its process through a diagram.
(CO3) [Comprehension]
14. Explain the critical section problem in an operating system. Evaluate how the critical section problem is resolved.
(CO4) [Comprehension]

PART C

ANSWER ALL THE FOLLOWING QUESTIONS

2 X 20 = 40M

15. Enumerate and describe any five(5) different operating system in use currently.
(CO3) [Comprehension]
16. Describe the utility of the devices Hub and Switch in a network infrastructure.
(CO4) [Application]
