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|  **ST. JOSEPH’S UNIVERSITY, BANGALORE-27** |
| **BCA– I SEMESTER** |
| **SEMESTER EXAMINATION: OCTOBER 2023****(Examination conducted in November /December 2023)** |
| **CA 1121- Fundamentals of Computers** **(For current batch students only)** |
|  |  |  |  |  |  |
| **Time- 2 hrs** |  | **Max Marks-60** |
|  |  |  |  |  |  |

**This paper contains two printed pages and three parts**

**PART - A**

**Answer All the Questions. (2\*5=10)**

1. What comes after these
	1. A9F(16) \_\_\_\_ ,
	2. 677(8) \_\_\_\_\_
2. Deep Blue was the first computer to win a chess game. What category of computers does it belong to?
3. List any two Unix commands and mention its functionality.
4. When does this error message “ **404 error-File not found**” occur?
5. Name two types of harddisk.

**PART - B**

**Answer any five questions (4\*5=20)**

1. Differentiate between Assembler & Compiler.
2. Explain the significance of Cache memory.
3. List and explain the functions of an Operating system
4. Create a table **Tbl\_stud\_details** with **Stud\_reg** and **Stud\_name** as fields, Using DDL statement. Use DML statement to view **ALL** records
5. Justify why Hertz (Hz) is used as a measure to calculate processor performance.
6. Differentiate between Internet and WWW
7. Explain the importance of DNS.

**PART C**

**Answer any three questions (10\*3=30)**

1. Convert 1011(2) to Gray Code. (2M)
11.101(10) = \_\_\_\_\_\_\_(2)  (2M)

DAD.CA(16)=\_\_\_\_\_\_\_(10) (2M)

What were the functions of ENIAC? (2M)

Draw a 2 input NAND gate (2M)

1. Differentiate between Augmented Reality & Virtual Reality (6M)

A student pursuing his BCA wants to purchase a laptop for his college use, suggest a configuration (with specs) (4M)

1. Justify the need for an IP address. (6M)

Explain any two characteristics of DBMS (4M)

1. Explain the booting process. (5M)

Differentiate between Data warehousing and Data Mining (5M)