KLS Gogte Institute of Technology, Belagavi

Program: B.E. Academic Year: 2023-24 (EVEN SEM)

Department: Semester: VI Max. Marks: 25 marks **IA Test – I**

**Course Title: Unix System & Network Programming Code: 21CS64**

**Duration: 1 Hr. Date: 26/04/2024**

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| **Q.No** | **PART A (Compulsory question)** | **[L ]** | **[CO]** | **[PO]** | **[M]** |
| **1.** | Differentiate between ANSI C and C++. | **2** | **1** | **2** | **5** |
| **PART B (Answer any 1 questions)** | | | | | |
| **2.** | Develop a C/C++ Program to implement the compile time and run time configuration limits for the below given tasks   1. Max. no. of child processes that can be created 2. Max no. of open files 3. Max no. of characters allowed in path name 4. Max no. of characters allowed in a file name 5. Max no. of clock ticks per second | **3** | **1** | **3** | **10** |
| **3.** | Develop a C/C++ Program to implement a client server communication using socket programming that uses connection-oriented protocol at transport layer. | **3** | **3** | **3** | **10** |
| **PART C (Answer any 1 question)** | | | | | |
| **4.** | Explain feature test macros. Develop a C/C++ Program to implement the feature test macros. | **3** | **1** | **3** | **10** |
| **5.** | Analyze the concept of Concurrent Servers and their capability to handle multiple clients simultaneously. Provide a detailed explanation including relevant code snippets and diagrams to illustrate the same. | **4** | **3** | **4** | **10** |

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| **Sign with Date** |  |  |  |  |
| **Faculty Members** | **Mod. Coordinator** | **PAC** | **IQAC** | **HOD** |
| **Remarks (if any)** |  | | | |