** D.Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY**

**Q. Paper Code:**

**22FY105205**

**KASABA BAWADA KOLHAPUR-416006**

**(An Autonomous Institute)**

F. Y. B. Tech/B.Arch./M.Tech

**END SEMESTER EXAMINATION, August 2022**

**Course Name:** Fundamentals of Computer and Programming, **Course Code:** 201GEL105

Seat No:

**Day and Date: Wednesday 10/08/2022**

**Time: 01.15 pm to 03.15 pm Max. Marks- 50**

***Instructions:***

1. *Question No. 1 is compulsory.*
2. *Figure to the right indicate full marks.*

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| **BT** | **CO’s** | **Q.No.** |  | | **Marks** |
|  |  | **Q.1** | **All Questions are compulsory** | | **20** |
| **L2** | **C01** | **a** | 1. i) Convert 34.4674 from Base 10 to Base 2 2. ii) Convert 1011.1001 from Base 2 to Base 10 | 07 M |  |
| **L2** | **C03** | **b** | Draw flow chart and algorithm for swapping of two numbers using temporary variable | 06M |  |
| **L2** | **C02** | **c** | Explain with example any two decision making statements used in C | 07M |  |
|  | | | | | |
|  |  | **Q.2** |  | | **10** |
| **L2** | **C03** | **a** | Write a note on User defined used in C function. | 05M |  |
| **L2** | **C02** | **b** | Write a C program to check whether given number is prime number or not. | 05M |  |
| **OR** | | | | | |
| **L2** | **C02** | **b** | Explain with example one dimensional array declaration and initialization. |  |  |
|  | | | | | |
|  |  | **Q.3** |  | | **10** |
| **L2** | **C04** | **a** | Explain the concept of class and object in Object Oriented Programming (OOP) | 05M |  |
| **L2** | **C04** | **b** | Write short note on Inheritance and explain its types. | 05M |  |
| **OR** | | | | | |
| **L2** | **C04** | b | Describe Encapsulation in OOP |  |  |
|  | | | | | |
|  |  | **Q.4** | **Attempt any two out of three questions** | | **10** |
| **L2** | **C04** | **a** | Define Artificial Intelligence (AI) and explain its major applications | 05M |  |
| **L2** | **C04** | **b** | Explain machine learning and its types | 05M |  |
| **L2** | **C04** | **c** | Explain the basic concept of Artificial Neural Network | 05M |  |

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