**22SYAIML205305**

**Q. Paper Code:**

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

**KASABA BAWADA KOLHAPUR-416006**

**(An Autonomous Institute)**

**S. Y. B. Tech-CSE\_AIML (Semester-III)**

**END SEMESTER EXAMINATION, OCT/NOV- 2021-22**

COURSE NAME: **Fundamentals of Networking,** COURSE CODE: **201AIMLl205**

Seat No :

**Day and Date: Thursday, 27/01/2022**

**Time: 11.00 am to 12.30 Pm Max. Marks- 50**

***Instructions:***

1. *All Questions are compulsory.*
2. *Figure to the right indicate full marks.*
3. *Give suitable general Instructions*
4. *Any other Course Specific Instructions.*

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| **BT** | **CO’s** | **Q. No.** | **Marks** | |
|  |  | **Q.1** | **Attempt following 20 Marks** | |
| **2** | C205.1 | **a** | What is Protocol? Explain TCP/IP protocol model with necessary diagram. |  |
| **2** | C205.1 | **b** | What are the functions performed in data link layer? |  |
| **2** | C205.2 | **c** | How classful addressing was designed? Explain Class A with example. |  |
|  |  | **Q.2** | **Attempt following 15 Marks** | |
| **2** | C205.2 | **a** | How link state packets are formed in link state algorithm? How these packets are distributed to all the routers in the subnet? |  |
| **2** | C205.2 | **b** | What is classless addressing? How the variable length blocks are designed?  **OR**  If block of address given to the organization is 122.185.139.248/29. Find first address, last address and size of block? |  |
|  |  | **Q.3** | **Attempt following 15 Marks** | |
| **3** | C205.3 | **a** | What is congestion? Explain any three congestion prevention policies.  **OR**  Explain various factors responsible for congestion. |  |
| **3** | C205.3 | **b** | What are the functions performed in transport layer? |  |

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