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

**Q. Paper Code:**

**22FY108104**

**KASABA BAWADA KOLHAPUR-416006**

**(An Autonomous Institute)**

F. Y. B. Tech, Sem-I

**END SEMESTER EXAMINATION, August. – 2022**

Course Name: Fundamentals of Electrical & Electronics Engineering, Course Code: 201GEL108

Seat No:

**Day and Date: Friday,26/08/2022**

**Time: 10.00 am to 12.00 pm Max. Marks 50**

***Instructions:***

1. *Question No. 1 is compulsory.*
2. *Figure to the right indicate full marks.*
3. *Use of non -programmable calculator only.*

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| **BT** | **CO’s** | **Q. No.** |  | **Marks** |
|  |  | **Q.1** | **All questions are compulsory** | **20** |
| L2 | 108.1 | **a** | State & Explain Kirchhoff’s law’s | 6 |
| L2 | 108.2 | **b** | Describe the generation of Three Phase signal with proper diagram | 7 |
| L2 | 108.2 | **c** | Explain the construction & working of single-phase induction motor. | 6 |
|  | | | | |
|  |  | **Q.2** | **Attempt the following** | **10** |
| L2 | 108.3 | **a** | Explain the feature of IC 78XX and LM317 | 4 |
| L2 | 108.3 | **b** | Explain the construction & working of full wave center tap rectifier with suitable waveforms  **OR**  Explain Zener diode as a voltage regulator | 6 |
|  | | | | |
|  |  | **Q.3** | **Attempt the following** | **10** |
| L2 | 108.3 | **a** | State different configuration of transistor.  **OR**  Define Stabilization and explain stability factors | 4 |
| L2 | 108.3 | **b** | Describe the application of transistor as an Amplifier with circuit diagram. | 6 |
|  | | | | |
|  |  | **Q.4** | **Attempt any two out of three questions** | **10** |
| L2 | 108.4 | **a** | Define transducer and write a short note on classification of transducers | 5 |
| L2 | 108.4 | **b** | Draw and Explain block Diagram of Digital Multi-meter. | 5 |
| L2 | 108.4 | **c** | Explain displacement transducer with its advantages and disadvantages | 5 |

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