

Course: B. Tech in \_EEP Sem: IV

Subject Name: Electrical Installation and Estimation Subject Code: BTEEC403

Max Marks:20 Date:-13/3/2019 Duration:- 1 Hr.

Instructions to the Students:

1. All questions are compulsory

Q.1 State True or False. If false correct the statement.

1. In a lighting circuit if the declared voltage is 230V, permissible voltage drop is 10V
2. The function of choke in tube is to produce a high voltage at starting for starting the tube.
3. Contract is agreement between two persons with different intension.
4. The total load of 1 lamp and 1 fan is 50W
5. Tender is an invitation from owner to the contractor to execute specified work.
6. Single way switch is used in staircase wiring.

Q.2 Solve Any Two of the following.

- (A) Define contract and different types of contracts.
- (B) A room is to be wired for single phase A.C. supply directly taken from the mains which has declared voltage of 200V, the length of wire from the main switch to light and plug points is 30meters. If the wire is to carry 5 amps, determine the size of conductor.
- (C) Draw a circuit satisfying criteria as , in bedroom one light is near dressing table having single way switch, other light near bed controlled by two 2-way switches

Q.3 Solve Any One of the following.

- (A) A newly constructed verandah room and an attached bath room are required to be provided with electrical wiring suitably. The bath room must be provided with on 15 amp socket apart from lamp. The lamp outside the verandah must be controlled from inside the room also, decide remaining electrical points. Draw the wiring diagram starting from energy meter and calculate the length of wire required.