

BITT POLYTECHNIC RANCHI
DEPARTMENT OF ELECTRICAL ENGG.
Subject: Electrical Estimation and Costing

BRANCH: ELECTRICAL ENG.

Semester-IV

1 MARKS QUESTION

1) What is the maximum number of lighting points that can be connected in a circuit?

- a. 5
- b. 10
- c. 8
- d. 12

2) What is the maximum load that can be connected in a circuit connecting only lighting points?

- a. 500 watts
- b. 750 watts
- c. 800 watts
- d. 1000 watts

3) Which among these is a method of wiring?

- a. Joint box
- b. Tee system
- c. Loop in system
- d. Only a and c
- e. All of these

4) For what voltage levels are the screwed conduit circuits used?

- a. Less than 250 V
- b. For voltages between 250 V – 600 V
- c. For voltages above 600 V
- d. None of these

5) Which material is used for wiring continuous bus bar?

- a. Aluminium
- b. Copper

- c. Both (A) and (B)
- d. None of these

6) Which type of earthing is also called as 'fire earthing'?

- a. Plate earthing
- b. Rod earthing
- c. Strip earthing
- d. All of these

7) What is the dimension of the copper strips used for the strip earthing?

- a. 25 mm * 4 mm
- b. 25 mm * 3 mm
- c. 30 mm * 4 mm
- d. 30 mm * 3 mm

8) What type of earthing is used by transmission lines?

- a. Plate earthing
- b. Rod earthing
- c. Strip earthing
- d. Both (a) & (c)
- e. All of these

9) What should be the value of earthing resistance for large power stations?

- a. 1 Ω
- b. 0.5 Ω
- c. 2 Ω
- d. 5 Ω

10) Which set of rules are to be verified on completion of wiring on any new installation?

- a. IE rules, 1950
- b. IE rules, 1956
- c. IE rules, 1960
- d. None of these

Answer any four questions

1. Explain installation.
2. Write about the general rules for wiring of residential installation
3. Explain earthing of an electrical installation
4. Explain installation and types of installation

5. Write advantages and disadvantages of ground and overhead service connection
6. Give a brief note on polarity testing
7. Give a brief note on estimating and costing
8. What is testing? Explain resistance testing method.
9. Explain earthing with proper diagram.
10. Define phase, neutral, and earthing.

10 MARKS QUESTIONS

(8x6)

Answer any two questions

1. Discuss the classification of installation diagram and explain in briefly about each
2. Explain service connection?
3. Explain about the over head service connection and under ground service connection
4. Discuss the classification of installation diagram and explain in briefly about each
5. Explain about mounting arrangements positioning of switch board and distribution boards , main switch in a residential building

Answer of objective Question.

- 1. B, 2. C 3. E 4. B 5. A , 6. B , 7. A 8. C 9. B 10. B**