

S.B. Roll No.....

ESTIMATING AND COSTING
4th/Elect/0522/2152/May'16

Duration: 3hrs

M. Marks=75

SECTION- A

Q1. Fill in the Blanks:

1.5x10=15

- a) The egg insulator is used at wire.
- b) For small houses, generally a wire of size is used.
- c) After receiving quotations, Statement is prepared.
- d) The load on each power circuit should be normally restricted to
- e) PVC stands for
- f) The size of the conductor is based on Capacity.
- g) In a staircase wiring, switches are used.
- h) A good lighting scheme should be free from shadow and
- i) Large motors should be provided with earthing.
- j) The light and power circuits should be kept

SECTION- B

Q2. Attempt any FIVE questions:

6x5=30

- a. Discuss the points to be considered while designing wiring of domestic installation.
- b. What are the important factors to be considered for the preparation of a detailed estimate and economical execution of work?
- c. Draw a neat sketch of a pole mounted substation and label all the major components.
- d. Discuss important points to be kept in view while carrying out wiring scheme for a motor installation.
- e. A 3-phase, 4-wire L.T. line of length 1 km is to be installed. Prepare the list of materials required.
- f. Name various types of domestic wiring systems. Discuss any two, giving in detail merits and demerits of each.
- g. Discuss different methods of calculation of labour charges.
- h. Enlist and explain at least five components of a 11Kv overhead distribution line.

SECTION- C

Q3. Attempt any THREE questions:

10x3=30

- i) Write a short note on:
 - a) Indent form(give a specimen copy also)
 - b) IE rules for domestic installation.
- ii) Draw and Explain key diagram 66/11 Kv substation.
A room measuring 6m x 4m x 3m high is to be provided with 3 lamps, 2 fans and one 5A socket outlet. Draw the installation plan and wiring diagram. Also calculate the length of conductor used.
- iii) What is a tender? Discuss at least 10 terms and conditions for inviting tenders.
- iv) Draw a neat sketch of a service connection from the suppliers' pole to the consumers MDB in a single storey house having a load of 10 Kw. Prepare the list of material required.