No. of Printed Pages : 4			SECTION-B
Roll No		120945/030945	<b>Note:</b> Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20
4th Sem. / Electrical Engg.			Q.11 Define earnest money?
Subject : Estimating and Costing			Q.12 Write any two quality of a good estimator.
Time : 3 Hrs. M.M. : 100		M.M. : 100	Q.13 Give two advantage of market survey.
			Q.14 What are the different types of wiring method?
Note: Objective type questions. All questions are			Q.15 Draw the symbol of two way switch.
compulsory (10x1=10)			Q.16 Expand DPIC.
	A tender is an between execution of work.	een two parties for	Q.17 Earthing protects against
execu			Q.18 Define tender.
Q.2 Contingencies are charges due to sudden		es due to sudden	Q.19 Name any two type of earthing method.
	Q.3 Define depreciation? Q.4 Expand PVC.		Q.20 What is grid substation.
			Q.21 What is difference between wire and cable?
•			Q.22 Describe MCB.
Q.5 Give an application of two way switch.		ay switch.	
Q.6 Name	Q.6 Name any two type of wiring?		SECTION-C
Q.7 Full fo	Q.7 Full form of ACSR is		
Q.8 Write	Write any two component of an overhead line.		<b>Note:</b> Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40
	•		Q.23 What is the purpose of estimating and costing?
line.  Q.10 Name any one protective devices commonly used in substation?			Q.24 Define labour charges. What are different method of calculating labour charges.
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- Q.25 What are the different type of wiring method explain any two of them with the help of suitable diagram.
- Q.26 What are the advantage and disadvantage of conduit wiring?
- Q.27 Draw a neat sketch of pipe earthing and label it.
- Q.28 Differentiate between overhead and underground distribution system.
- Q.29 What are the qualities of good wiring system?
- Q.30 Give comparison between MCB and fuse.
- Q.31 Compare DC and ac system of supply.
- Q.32 Describe various types of line supports.

## **SECTION-D**

- **Note:**Long answer type questions. Attempt any three questions out of four questions. 3x10=30
- Q.33 Determine the list of material along with the cost of erecting 3 phase 100 KVA 50 HZ 11/0.4 KV on double pole structure for pole mounted substation. Also make a neat sketch.
- Q.34 The Assembly Hall of a polytechnic is 25m x 9m x 4.5m is to be provided with light and fan. Calculate the light point require as per Lumens method prepare the complete wiring estimate as per follow.

(3)

- a) Draw installation plan and mark location of different electric item.
- b) Calculate the rating of main switch and MCB to be used in distribution board.
- c) Draw single line diagram and wiring diagram.
- d) Calculate the length of wire conduit Pipe and prepare complete list of material required for wiring the hall.
- Q.35 Three phase induction motor of rating 5 HP 50 Hz 415 V is to be installed in a room of size 5 m x 3m x 3.5 m. the motor should be 1 m away from the nearest wall. Prepare the list of the materials and estimate their cost also draw the installation plan single line diagram and wiring diagram.
- Q.36 Prepare a list of material and cost estimate giving service connection by 2 core PVC cable to a house (single storey) at 230 V single phase 50Hz. Its maximum load is 500 Watt the supply is to be given from overhead 415v 3 phase 4 wire line which is 20 m away from the house.

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