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Roll No.....

4th Sem, **Branch :** Electrical Engg.

Subject : Installation & Maintenance of
Electrical Equipment

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note : Multiple choice questions. All questions are compulsory. (10x1=10)

Q.1 They can be used to screw or unscrew nails on any surface, to tighten the hinges install light switches (CO-1)

- a) Wrench
- b) Pliers
- c) Screw driver
- d) All of the above

Q.2 Electrical shock can be prevented (CO-1)

- a) By avoiding working on live equipments.
- b) Insulate yourself by using insulating materials
- c) To put main switch off while working
- d) All of the above

Q.3 Maintenance is the process for maintaining any machinery (CO-9)

- a) In proper and efficient condition
 - b) Getting satisfactory and trouble free service
 - c) To get the equipment for use at minimum costd)
- All of the above

Q.4 Shackle insulators are used (CO-1)

- a) below 33kv
- b) above 33kv

- c) above 40kv
- d) All of the above

Q.5 The function of the cross-arm is to support (CO-2)

- a) Conductor on insulators
- b) Transformer
- c) Earth wire
- d) All of the above

Q.6 A short length of conductor connected on either side of pole is called (CO-2)

- a) Jumper
- b) Cradle guard
- c) Bracing
- d) All of these

Q.7 Armouring is provided to protect the cable from (CO-3)

- a) rusting of strands
- b) entry of moisture
- c) mechanical injury
- d) none of the above

Q.8 For handling of underground cables equipment used are (CO-4)

- a) jacks
- b) rollers
- c) winches
- d) all of the above

Q.9 Storage of transformer should be (CO-6)

- a) in open space
- b) in clean and dry place
- c) in one side of the factory
- d) all these above

Q.10 Control and relay panels are always located (CO-6)

- a) in open space
- b) in control room
- c) in the switch yard
- d) none of all these

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand SWG. (CO-2)
Q.12 Define guy wire. (CO-2)
Q.13 Define service connection. (CO-1)
Q.14 Write the two types of joint. (CO-5)
Q.15 Name any two types of substation. (CO-6)
Q.16 Define Maintenance schedule. (CO-9)
Q.17 Define pole. (CO-1)
Q.18 Name any two test which is performed on underground cable. (CO-5)
Q.19 Write full form of PTW. (CO-8)
Q.20 Define danger notice. (CO-1)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Describe the cause and prevention of accident. (CO-1)
Q.22 Name the 15 tools, accessories and instruments required for maintenance repair work. (CO-9)
Q.23 Explain about clearance, while line crossing over (i) railway track (ii) streets. (CO-8)
Q.24 Explain with the help of suitable sketches arrangement of strain insulator. (CO-2)
Q.25 Draw and explain different types of guarding (CO-2)
Q.26 Explain the different methods of erection of support. (CO-1)

- Q.27 Explain the procedure of installation of epoxy cable jointing. (CO-5)
Q.28 Write a short note on (i) transportation and handling of cable (ii) back filling of trenches. (CO-3&4)
Q.29 Write about different test performed for testing of transformer oil. (CO-6)
Q.30 Write a short note on (i) inspection and handling of transformer (ii) dehydration (CO-6)
Q.31 Discuss briefly different types of Maintenance. (CO-9)
Q.32 Explain the term permit to work and cancellation of permit. (CO-8)
Q.33 Describe the different types of patrolling and visual inspection of lines and draw the format of petrol report. (CO-8)
Q.34 Write the cause of dim and flickering of lights. (CO-6)
Q.35 Explain the procedure of testing of insulation resistance to earth. (CO-7)

SECTION-D

Note: Long Answer type question. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the methods of laying of underground cable with a neat diagram. (CO-4)
Q.37 Explain the functions of various components used in substation. (CO-2)
Q.38 Explain the Maintenance of (i) power transformer (ii) motors. (CO-9)