

xiv) What are the precautions taken while handling and pulling of underground cables.

SECTION-C

Note: Long answer type questions. Attempt any three questions. $3 \times 10 = 30$

- Q.3 If a cable develops a fault, how will you proceed to locate it?
- Q.4 Draw a single line diagram of 83/11 kv substation. Also label its main parts.
- Q.5 Explain the following
- a) Pole mounted substation
 - b) Cable filling compounds.
- Q.6 What are the various ways adopted for the removal of temporary faults in transmission of distribution system. Explain in detail.
- Q.7 What are the points to be checked when carrying out inspection of overhead lines?

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6th Sem. / Power Station Engg

Subject : Sub-station Equipment and Maintenance

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. $(15 \times 2 = 30)$

- Q.1 a) What is Low voltage.
b) List different types of wastes.
c) Define load factor?
d) Define Conductor.
e) What is preventive maintenance?
f) Define Cable.
g) What does setting of relay mean?
h) What is the function of a fuse?
i) What is outdoor substation.

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- j) Define Bus bar.
- k) What is Air Pollution?
- l) _____ cables are used for voltage upto 11kv.
- m) What are isolating switches.
- n) What is neutral earthing?
- o) What is primary distribution?
- p) Flow of charging current causes _____ of a cable.
- q) Name any two types of Fire Extinguisher.
- r) What is LT switch?

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

- Q.2
- i) What is the use of Meggar?
 - ii) What are the effects of open & loose neutral connection?

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- iii) Explain water pollution in brief.
- iv) Why fixing of protection circuit is required in transformer.
- v) Explain the basic concept of LT circuit breaker.
- vi) What are the advantages of preventive maintenance?
- vii) What is HVDC? When such system is preferred? State its merits & demerits.
- viii) Explain chemical foam type fire extinguisher.
- ix) How will you check the insulation resistance of transformer?
- x) Explain the uses of lightning arrestors and lightning rods.
- xi) Write a short note on inspection of transformed on arrival at site.
- xii) How do you measure Earth resistance?
- xiii) Define sound pollution. Name the factors causing sound pollution.

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