MIZORAM PUBLIC SERVICE COMMISSION

DEPARTMENTAL EXAMINATIONS FOR JUNIOR GRADE OF M.E.S. (AE/SDO) under Power & Electricity Department, Government of Mizoram, June-2024.

ENGINEERING PAPER - I

Common Paper for all Engineers in Electrical Wing under P&E Cadre

Time Allowed: 3 hours FM: 100 PM: 40

Marks for each question is indicated against it.

Attempt all questions.

PART 'A' (50 MARKS)

1.	1. What are the causes for unwanted power interruption	on or	n EHV Transmission lines? (5)		
2.	. Quarterly activities to be performed for maintenance of EHV Sub-Stations.				
3.	3. What are the main reasons of Distribution transform	ner fa	ailure? (5)		
4.	4. What is the methodology being adopted by the P work estimate?	&E]	Deptt to arive O&M expenses for Deposit (5)		
5.	5. Precautionary measures to be followed while take accident?	ing s	chutdown on electrical equipment to avoid (5)		
6.	What are the step by step procedures to be carried out for repair maintenance on Circuit Breaker (CB) in the EHV Sub-Station? (5)				
7.	7. Write notes as mentioned in the Electricity Act, 200)3 on	n; (5×2=10)		
	(a) Special Court	(b)	Theft of electricity		
	(c) State Advisory Committee	(d)	Open Access		
8.	8. Write short notes as per CEA (Deviation Settleme 2014 on;	nt M	echanism & Related matters) Regulations, (5×2=10)		
	(a) Available Capacity	(b)	Interface meters		
	(c) Deviation	(d)	Actual injection		
	(e) Load Despatch Centre				
<u>PART 'B' (50 MARKS)</u>					
9.	9. Write short notes as per JERC (M&M) Electricity	Supp	oly Code Regulations, 2013. (5×2=10)		
	(a) Billing cycle	(b)	Connection point		

(d) Minimum charge

(c) Maximum demand

(e) Fixed charge

10.	What is the difference between Connected load and Contracted load?				
11.	What is security deposit? What is the procedure to review security deposit?	(6)			
12.	What are the procedures to replace defective consumer energy meter?	(6)			
13.	Write process of handling complaints as per JERC (M&M) Standard of Performance Regulations 2014.				
14.	Write notes on compensation mechanism as per JERC (M&M) Standard of Performance Regulations, 2014. (6)				
15.	Write short notes as per JERC (M&M) Grid Code Regulations, 2010 on. (5× (a) Partial shutdown (b) Planned outage	2=10)			

(c) State Transmission Utility

(d) Under Frequency Relay

(e) Grid Code Review Committee