

26/02/2023  
(F-N)

GOVERNMENT OF PUDUCHERRY

(Departmental Test for Engineering Staff/ Officers in Electricity Department)

PAPER-I

Time: 3 Hours

Marks: 100 Max

(With Books)

(Quote Authority, Act, Rule, Regulation, wherever necessary)  
(Extra answers than the required number of choices, will fetch no extra marks)  
(Answers without reference carry minimum marks on the merit of the answers)

PART A

(Answer any TEN questions. )

[10 x 5 =50 Marks]

1. In electricity act 2003,
  - (a) which section deals with the punishment of receiving of stolen property. (1)
  - (b) which section deals with state advisory committee. (1)
  - © Which section deals with power of Central Government to make rules? (1)
  - (d) which section deals with reporting of electrical accidents? (1)
  - (e) Which section deals interference with meters (1)
2. What is meant by open access and wheeling?. (5)
3. In Electricity act 2003, Which section deals with compounding of offence? and what is the rate of compounding of offence for various category of supply? (5)
4. (a) What is the periodicity for receiving adequacy of security deposit for service connections and when it should be reviewed? (3)  
(b) what is the quantum of security deposit to be maintained? (2)
5. Define
  - (a) Flame proof enclosure. (2.5)
  - (b) Enclosed switchgear. (2.5)
6. What are the components of Aggregate Revenue requirement as per JERC ,tariff regulation 2009? (5)
7. (a) Define return on equity? (2)  
(b) What are the charges to be included for determination of distribution and retail

- sale of supply? (3)
8. (a) List the cases to be treated as unauthorised use of Electricity? (2)
- (b) What are the timeline for releasing new electricity connection from the date of receipt of application for HT and EHT category consumers? (3)
9. Write 5 points about connectivity, safety ,protection, operation and maintenance of solar plant.? (5)
10. Define
- (a) Availability based tariff. (2)
- (b) Difference between check meter and standby meter. (3)
11. (a) Difference between Hybrid and Gas insulated substation. (3)
- (b) Maximum allowable rated break time for
- (i) 220 KV circuit breaker (1)
- (ii) 132 or 110 Kv circuit breaker. (1)
12. Is there any provision in Energy conservation act to supersede BEE by central Government? If so, write a note on power of Central government to supersede BEE. (5)
13. (a) As per the present applicable tariff order for FY 2022-23,
- (i) the average power purchase cost is RS----/KWh (1)
- (ii) The average cost of supply Rs---/KWh (1)
- (b) Define -Demand side management (3)
14. Define
- (a) Gross net metering (2.5)
- (b) Weighted average cost of capital. (2.5)
15. write a short note on roles and responsibilities of Demand side management cell. (5)

### PART B

(Answer any FIVE questions. )

[5 x 10=50 Marks]

- 1.
- (a) How to settle the issues, in case of disputed bills. (5)
- (b) Write the procedure for supply for multi consumer complex. (5)
2. (a) what are the components of income shall be treated as non tariff income? (5)
- (b) write a short note on formulation of DSM plan. (5)

3. (a) Write the minimum contents of safety manual for operation and maintenance of electrical plants and lines. (7)
- (b) Roles and responsibilities of a safety officer (3)
4. (a) Please specify the breaking capacity of a switchgear/circuit breaker to be installed for the following voltage level.
- (i) 110 or 132 kv (1)
- (ii) 220 kv level (1)
- (b) Please specify, The transformation capacity of a single sub station , for the following voltage level
- (i) 220 kv level (1)
- (ii) 110 or 132 kv level. (1)
- ©List the electrical protection function for 220 KV transmission line and transformers(220/110KV) (6)
5. (a) Define /short note on
- (i) Energy saving certificate (2)
- (ii) Power and function of Bureau of energy efficiency. (3)
- (b) Write a short note on standards for energy accounting and audit meters. (5)
6. (a) please specify the accuracy class for following category of meters.
- (i) Interface meters. (1)
- (ii) consumer meters (1)
- (iii) Energy accounting and audit meters (1)
- (b)
- (i) List the anti tampering features for consumer meter (5)
- (ii) What are the points /locations in a meter, sealing has to be done? (2)
7. (a) What are the additional requirements besides the general connectivity conditions applicable to the Bulk consumers? (5)
- (b) List any five compensation payable to the consumer, in case of failure of licensee to meet the guaranteed standard of performance? (5)
8. (a) Define 'Quality power supply' (3)
- (b) Write a short note on outage and contingency planning by the distribution licensee. (7)

26/02/2023  
(A.N)

DEPARTMENTAL TEST FOR ENGINEERING STAFF/OFFICERS OF  
ELECTRICITY DEPARTMENT, PONDICHERY

PAPER-II (With Books)

Time: 3 Hours

Max.Marks: 100

Min.Marks : 40

Answer any TEN questions  
All questions carry equal marks  
Quote relevant rules while answering

1. Write short notes on **any two** of the following:
  - a) Technical Sanction
  - b) Deposit works
  - c) Secured advance
  - d) Work Charged Establishment
  
2. What are the general principles that should be observed while entering into agreements or contracts involving expenditure from public funds?
  
3. Distinguish between: **(any two)**
  - a) Superannuation pension and Retiring Pension
  - b) Service gratuity and Residuary gratuity
  - c) Emolument and Average Emoluments
  - d) Retirement gratuity and Death Gratuity.
  
4. What are the various major penalties and the procedure to be followed by a disciplinary Authority in a proceeding for imposition of major penalty?
  
5. Under what circumstances provisional pension is granted to a Government servant? What further action is necessary to be taken by the Head of Office after grant of provisional pension?
  
6. What is Leave not Due? What are the conditions governing its grant?
  
7.
  - a) What are the conditions to be observed by subordinate authorities delegated with financial powers to incur miscellaneous expenditure?
  
  - b) To what extent Administrators of Union Territories are delegated with powers to write-off (i) irrecoverable losses of stores (ii) Loss of revenue.
  
8. What are the rules governing the Private trade or employment?

9. What are the important instructions to be followed with regard to preparations of bills for presentation to Accounts Office for payment?
10. What are the general instructions to be observed by Government officials authorized for handling Government cash?
11.
  - a) When does qualifying service for pension of a Government servant commence?
  - b) Under what conditions the following events in service of a Government qualified for pension?
    - (i) Periods spent on leave
    - (ii) Periods of suspension
12. What is Register of works? How is it posted? What are the checks applied to it by the Divisional Officer?
13. What is the procedure for preparation / checking of comparative statement under e-tendering process under CPWD works Manual.
14. Distinguish between: **(any two)**
  - a) Appeal and petition
  - b) Appeal and Revision
  - c) Article of charge and statement of Imputations
  - d) Censure and Warning.
15. Write short notes on **any two**:
  - a) Last pay certificate
  - b) Letter of credit
  - c) Arrear claims
  - d) Currency of cheque

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