

PAPER — 1

ATTEMPT ANY FIVE QUESTIONS. NOT MORE THAN THREE FROM PART-I AND TWO FROM PART II OR III

**NOTE; PART -I IS COMPULSORY FOR ALL ENGINEERING OFFICERS.
PART-II IS MEANT FOR CIVIL/MECHENICAL ENGINEERING OFFICER
PART-III IS MEANT FOR ELECTRICAL ENGINEERING OFFICERS**

TIME: 3 HOURS

MAX. MARKS: 300

PART- I WORKS, ACCOUNTS & STORES/ MANUAL

- Q.i) (a) What are the precautions to be observed by the officials entrusted with duty of signing of cheques in behalf of Board. 30
- (b) What is procedure for clearance of the accounts in Division office ? 30
- Q.ii) (a) Describe the accounting entries/procedure required to be followed in respect of following
i) Cheque issued on 1st March, 2010 but not encashed upto 1st September, 2010.
ii) Cash found surplus in the chest.
iii) Loss of cheque intimated by the payee.
iv) Surplus stock valuing Rs. 8000/- found on physical verification of stock.
v) Payment of energy bills received from consumers amounting to Rs. 6000/- 30
- (b) You are in charge of a project sub-division entrusted with the work of intake/Barrage site of a project having an estimated cost of Rs. 220 crore. Prepare a note proposing steps/measures to be taken for expediting the work so as to economize on the project cost on the part of the package. 30
- Q.iii) What is the procedure of maintain workshops accounts? What are the components of annual proforma account of each workshop? 60
- Q.iv) (a) What are the reasons for blacklisting any firm and what is the procedure for doing that? 30
- (b) Mention the instructions required to be observed by the estimating officers while preparing the budget estimates of ordinary expenditure in HPSEBL. 30
- Q.v) Give detailed description of the commercial terms & conditions to be incorporated in the supply order/contract agreement. 60
- Q. vi) Who is responsible for keeping vigil over liabilities for their settlement? In what cases liabilities are incorporated in accounts of work? 60

PART-II FOR ENGINEERING OFFICERS (Civil/Mech.)

- Q. i) What is the procedure for determining the economical diameter of HRT? Give brief detail. 60
- Q. ii) What are the forces considered for design of a Barrage? Give step wise detail for checking the stability of a Barrage. 60
- Q. iii) Give brief detail of the Survey and geological investigation requirements for a gravity Dam. 60
- Q. iv) Explain procedure and steps for preparation of DPR of an Hydro electric project. 60
- Q. v) Explain procedure and steps for lining of HRT. 60

PART-III FOR ENGINEERING OFFICERS (ELECTRICAL)

Question 1. What are T& D and AT&C losses, explain all relevant terms used in the formulae. Give detailed suggestions to improve upon the losses in an electricity utility. 60

Question 2. Define the terms connected load and contract demand. If CD is not given by a consumer how it can be assessed for tariff purpose. At the time of load verification for domestic and NRS supplies what are the standard values of connected load taken for light point, 5A socket and 15A power point if actual load not found connected. 60

Question 3. Explain the procedure for estimation of charges for supply of power as per recovery of expenditure regulations when a consumer applies for an industrial connection at HT supply. Assume that the augmentation of feeding sub station and feeding line are required in addition to dedicated service to the consumer and the work is not covered in any funded scheme. 60

Question 4 What do you mean by two part tariff? Is it necessary to sanction the connected load and contract demand separately if so why? Can we do away with the sanction of connected load wherever contract demand has been sanctioned give your suggestions. 60

Question 5. Under what provisions of the Electricity Act 2003 theft of electricity is covered? Describe the detailed procedure to be adopted when you detect a consumer making theft of electricity. 60