

H.P. Board of Departmental Examinations
Departmental Examination of Engineering Officers of HPSEB Ltd.
of Himachal Pradesh Session April,2013

PAPER-I (Works, Store & Commercial Accounts/Manuals)

Time Allowed: 3 Hours

Maximum Marks: 300

Note : -

- i) Attempt any five questions. Three from PART-I and Two from PART-II or PART-III as applicable.
- ii) PART-I is Compulsory for all Engineering Officers.
- iii) PART-II is meant for Electrical Engineers.
- iv) PART-III is meant for CIVIL/Mechanical Engineers.
- v) Bare Acts/Codes/Rules/Manuals only are allowed.

PART-I(Works Accounts & Stores/Manual)

- Q. I)**
- (a) What is meant by Administrative approval and Technical Sanction. Describe the procedure to obtain Administrative Approval and Technical Sanction? [20]
 - (b) What are different types of Repairs. How the estimates are prepared and sanction for each type of Repairs? [20]
 - (c) In what circumstances the Advances to the Contractors are allowed and to what extent ? [20]
- Q. II)**
- (a) What is Completion Report. In what cases the Completion Report must be prepared. What are the general instructions for preparation and disposal of Completion Reports ? [20]
 - (b) Describe the types of initial record of Works Accounts. Explain in details about Material at Site and Measurement Books and its updation. [20]
 - (c) Under what circumstances the commencement of work is done in anticipation of detailed estimate of the complete project estimate/proposal ? [20]
- Q. III)**
- a) Define the following:-
 - i) Suspense Account.
 - ii) Book Transfer
 - iii) Issue Rate

[15]

- (b) What provisions shall apply in case of contingencies of Divisional Officers which are drawn by cheques ? [15]
- (c) What is the procedure for payments to the Departmental Labour ? [15]
- (d) What is manufacture Accounts and how it is operated ? [15]

Q. IV)

- (a) What is the procedure prescribed by Board for adjustment of transfer debits or credits between Divisions in order to avoid inordinate delay? [20]
- (b) What precautions are to be observed by officials entrusted with the duty of signing cheques on behalf of Board? [20]
- (c) What actions are to be taken by both the parties after Arbitration Award has been made? [20]

Q. V)

- (a) Distinguish between Blacklisting & Banning of firms and procedure being followed by HPSEBL in this regard. [20]
- (b) Describe various modes of Purchases in brief. [20]
- (c) Who are the constituents of Condemnation Board ? What are the responsibilities of Condemnation Board? [20]

PART-II For Engineering Officers (Electrical)

Q. I)

- (a) Distinguish between Section 126 and 135 of Act,2003. During inspection it was found that a load of 350 kW of induction furnace/rolling mill has been prima facie established as theft. Work out the units assessed and the amount to be charged from the consumer taking unit rate as Rs. 2.70/- per unit. [40]
- (b) What is LVSS and its applicability ? Examine the following two case and identify the case where LVSS is applicable with justification.

Case No.-1: Load of 2100 kW to consumer X is released on 1.1.2006 at 11 kV supply voltage. The consumer has been allowed extensions of load of 150 kW during May,2012.

Case No. 2: Load of 51 kW has been released to Consumer Y on 1.6.2005 at 0.4 kV and consumer has been allowed extension of load of 15 kW on 1.11.2007 and 1.5.2010.

[20]

- Q. II) (a) Define load factor, demand factor and diversity factors and their significance. [20]
- (b) Describe in detail the procedure/steps involved for release of connection to a consumer with load more than 100 kW. What action is to be required in case, the consumer withdraw to take load after issuance of PAC/Sanction of load or delays in building the load up to sanctioned load. [40]
- Q. III) (a) Describe the steps to be taken in the Sub-Division for checking the consumer accounts by the SDC and AE/AEE. [20]
- (b) List the reasons for disconnection of supply to the consumer premises on temporary and permanent basis and how the supply is restored. [20]
- (c) What procedure is to be followed when a meter is reported to be damaged or burnt by a consumer ? [20]
- Q. IV) (a) What procedure is followed to release connection to group of consumers out of which one consumer has installed its own Sub-Station ? Explain with schematic diagram [30]
- (b) What is the procedure for disposal of Public money to the bank ? [30]

PART-III For Engineering Officers (Civil/Mechanical)

- Q. I) (a) List type of diversion structures for Hydro Electric Project and its design [20]
- (b) How the alignment of Tunnel is done, explain ? [30]
- (C) Describe type of bridges and its design [10]
- Q. II) (a) What is the criteria for selecting surface type power house or underground power house. On the basis of what parameters, the dimensions of power house is finalised, explain ? [30]
- (b) What is setting height of a unit ? In what circumstances it is positive and in what circumstances ,it is negative ? [30]
- Q. III) (a) Explain sequence wise stages of concreting right from batching plant to complete curing with particular reference to the stages which required much attention. [30]
- (b) Explain in detail the design of a Diversion Structure [30]
- Q. IV) Explain in details the steps taken by H.P. to harness the Hydro Potential of the State and contribution of HPSEBL. [60]