

H. P. Board of Departmental Examinations
Departmental Examination of Engineering Officers of HPSEB Ltd.
of Himachal Pradesh Session October, 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 each 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 the Accounting Procedure for the material received for the specific work? How the prices of Stores are fixed by the Divisional Officers maintaining stores in the HPSEB Ltd? [20]
 - b) What is Stock Measurement Book? Explain the use and upkeep of Stock Measurement Book. [20]
 - c) How the Annual Estimates for HPSEB Ltd. are prepared for Motor Lorries and Cars indicating direct and indirect charges. Explain with example. [20]
- Q. II)**
- a) Describe the various modes of Purchase. How the Tenders are processed, explain in detail. [20]
 - b) Prepare a sample Purchase Order giving Commercial Terms & Conditions in detail to be incorporated in the Contract Agreement. [20]
 - c) Explain the testing & inspection procedure and Despatch of Material after issue of Purchase Order. [20]
- Q. III)**
- a) What are the different groups in Finance & Accounts wing in HPSEB Ltd. Explain the functions of Chief Accounts Officer. [20]
 - b) What is the role of Budget and Central Accounts Section in Finance & Accounts Wing in HPSEB Ltd. Explain. [20]
 - c) Explain the working of Compilation and Banking & Cash Sections in HPSEB Ltd. [20]

(Contd.)

- Q. IV)** a) How will you classify the different type of stores? What is the procedure for physical verification of each type of store? [20]
- b) How the Tools and Plant accounts are maintained in HPSEB Ltd. and what are the various formats used for the same? [20]
- c) What are Precautions taken against losses of stores? [20]
- Q. V)** a) What is the procedure followed for the custody of cash in a Sub-division/ Division? How the Cash Books are maintained by the Sub Divisional Officers. [20]
- b) Explain how the Accounts of Deposits and Suspense Accounts are regulated. [20]
- c) Explain the procedure to release the payments to Suppliers and Contractors by field units. [20]

PART-II for Engineering Officers (Electrical)

- Q. I)** a) What do you understand by the Centralised Billing System in HPSEB Ltd.. How the recovery of arrears is done from the defaulting consumers? [20]
- b) What is the procedure for taking Securities from consumers & maintenance of their accounts? How the adjustment or refund of Consumers Security Deposit is done? [20]
- c) What are the various remedial methods are taken for prevention of theft? How the supply to the consumer, who caught stealing energy is reconnected? [20]
- Q. II)** a) What are the Operations, duties and functions of Flying Squad Units? Describe in detail. [20]
- b) Define the different consumer categories in HPSEB Ltd. and how the priority of granting the electricity connection to different categories of consumers is done? [20]
- c) Define the terms – Open Access, Connected Load Factor, Contract Demand, Diversity Factor, Demand Charges, Wheeling Charges, High Voltage Supply Rebate, Disturbing Load Penalty, Seasonal Load Industries and Power Factor. [20]

- Q. III) a)** How will you decide the supply voltage at the time of release of new connection to a consumer. What are the standard voltage variation limits ? [20]
- b)** What are the steps involved to release a connection to a consumer at 33kV? [20]
- c)** For a consumer of connected load of more than 100 kW, how the billing is carried out? [20]
- Q. IV) a)** What are the reasons for disconnection of supply to a consumer on Temporary and Permanent basis and how the supply is restored? [20]
- b)** In the event of reporting of damaged/ burnt meter, what procedure is followed? [20]
- c)** What is the procedure of dealing with the cases where the full sanctioned load is not availed by the consumer? [20]

PART-II for Engineering Officers (Civil/ Mechanical)

- Q. I) a)** What are the major clearances required to be obtained by an IPP for commencing the construction of the project. [20]
- b)** Give the brief explanation of basic and common civil components of a high head development of Mini Hydro Scheme. [20]
- c)** Prepare a sample technical specification for a high head Francis Turbine and Associated Equipment. List out the major Guaranteed Technical Particulars. [20]
- Q. II) a)** What is the utility of a Model Test and Data required for a Model Test of Diversion Structures? [20]
- b)** What aspects are considered for proper Maintenance and operation of Diversion Structures? [20]
- c)** What are the different types of Fish Pass.? Explain in detail. [20]
- Q. III) a)** What are the factors considered for the alignment and economic diameter studies of tunnels? [20]
- b)** What do you understand by surges and air locking in hydraulic Tunnels? [20]
- c)** Describe the sequence of Operation for Construction of Tunnels. Explain in brief the terms Rock- Bolting and Shotcreting. [20]

- Q. IV) a) Explain in detail the design of Unlined Canals? [20]
- b) What is the necessity of lining in Canals? What are the different types of lining? [20]
- c) What are the main factors considered in Planning and Investigation of Canals? [20]