

H.P. Board of Departmental Examination
Departmental Examination of Engineering Officers of HPSEB Ltd.
of Himachal Pradesh Session June, 2018

PAPER-1 (WORKS, STORE & COMMERCIAL ACCOUNTS/MANUALS)

Time Allowed: 3 (Three) 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/Tariff Orders only are allowed.**

PART-I (WORKS, ACCOUNTS & STORES MANUAL)

- Q.1) a) Explain the following:-
- | | |
|------------------------------------|-------------------------|
| i) Price preference | ii) Stores value ledger |
| iii) Issue rates of stock articles | iv) Payment on account |
| v) Sub work s | [5x4] |
- b) Explain in detail the complete procedure for calling & evaluation of tenders. [20]
- c) What is the procedure of Arbitration and legal proceedings in handling the contracts in HPSEBL? [20]
- Q.2) a) What are the various duties and responsibilities entrusted to Superintending Engineer in HPSEBL? [20]
- b) What are the sources from where material is received on stock? For what purpose they are issued. [20]
- c) How is the main cash book is maintained and who is responsible for making the entries. [20]

- Q.3) a) Under what account code and head, revenue from Sale of Power is accounted in HPSEBL. Describe the various items with sub heads and account codes covered under Revenue from Sale of Power. [20]
- b) What are the general principles to regulate the enforcement of responsibility for losses sustained by board through fraud and negligence of individuals? [20]
- c) What is procedure followed for the custody of cash in a sub division/division? How the cash books are maintained by the Sub Divisional officers. [20]
- Q.4) a) Describe various modes of Purchase in detail, by giving salient features of each mode. [20]
- b) Explain in detail the procedure of releasing the payments to suppliers and contractors by field units? [20]
- c) What is the procedure for drawing meters from the stores of Meter & testing department? [20]
- Q.5) a) What are different types of repairs? How the estimates are prepared and sanction for each type of repair? [20]
- b) What are the general rules & guidelines to be followed by officers during transfer of charge. [20]
- c) What is the procedure of physical verification of stores and who is competent for physical verification of each type of store. [20]

PART-II FOR ENGINEERING OFFICERS (ELECTRICAL)

- Q.1) a) How the assessment and charging of energy pilferage is done from consumers found stealing of energy? [20]
- b) What are the instructions for availing concession of free electricity by the employees of HPSEBL? [20]
- c) Who is responsible for the maintenance of consumer ledger and writing up of columns in respect of cash realization. [20]
- Q.2) a) Define the terms:
- | | |
|--------------------------------------|------------------|
| i) Two Part Tariff | ii) AT& C Losses |
| iii) Cross Subsidy Surcharge | iv) Smart Meter |
| v) Contract demand violation Charges | vi) Open Access |

v) Cut offs

vi) Design flood

vii) Contraction joints

viii) Afflux [8x2.5]

b) What are the advantages and disadvantages of having Barrage/Weir in mountainous and sub-mountainous regions? [20]

c) What are the points to be considered while selecting a Barrage vis-à-vis Weir? Explain in detail. [20]

Q.3) a) Write detailed note on geophysical method for field exploration and how it is helpful in saving time in investigations. [15]

b) Write note on the following laboratory tests in Rock mechanics:-

i) Pulse velocity

ii) Drillability

iii) Strength

[3x15]

Q.4) Write detailed note along with diagrams on the following:-

a) Types of grouting in hydropower tunnels. [30]

b) Process of grouting in hydropower tunnels. [30]