

**H.P. BOARD OF DEPARTEMNTAL EXAMINATIONS
DEPARTMENTAL EXAMINATION OF ENGINEERING OFFICERS OF HPSEB LTD.
OF HIMACHAL PRADESH SESSION APRIL, 2012.**

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

Time Allowed : 3 Hours.

Maximum Marks : 300

Note- I: ATTEMPT ANY FIVE QUESTIONS. MINIMUM TWO FROM PART-I AND MINIMUM TWO FROM PART-II OR PART-III.

**PART-I IS COMPLUSORY FOR ALL ENGINEERING OFFICERS.
PART-II IS MEANT FOR CIVIL/MECHANICAL ENGINEERS.
PART-III IS MEANT FOR ELECTRICAL ENGINEERS.**

BARE ACTS/RULES ONLY ARE ALLOWED.

PART-I (WORKS ACCOUNTS & STORES/MANUAL)

- Q.I) (a) Explain the following:**
- (i) Price Preference (10)**
 - (ii) Acceptance of escalation clause (10)**
 - (b) Explain different methods of disposal of surplus, unserviceable & obsolete Stores. (40)**
- Q.II) (a) What is the procedure for adjustment of transfer debits/credits between different Divisions. (30)**
- (b) Under what conditions work can be commenced in absence of sanctioned detailed estimate. (30)**
- Q.III) (a) Explain the following: (20)**
- (i) Direct and Indirect receipts**
 - (ii) Payment on account**
 - (iii) Sub Work**
 - (iv) Rate of cost & inclusive rate of cost**
 - (b) What is the procedure of maintaining account in the Divisional Office in respect of transactions relating to stock? Explain. (20)**
 - (c) What are the different returns submitted by Sub Divisions for compilation of monthly Divisional Account? (20)**

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- Q. IV) (a) Explain what is contract. What conditions are included in the contract document and how it is executed through Tender? (40)
- (b) Explain, how the accounts of petty contractors are maintained? (20)
- Q. V) (a) What procedure is required to be adopted before taking up any work? Give brief detail. (20)
- (b) What rules are required to be followed for preparation and dealing with Muster Roll? (20)
- (c) Explain who are authorized to grant advances? (20)

PART-II FOR ENGINEERING OFFICERS (CIVIL/MECHANICAL)

- Q.I) what are the criteria for selection of Bridge site, explain. What are various types of bridges explain in brief. (60)
- Q.II) Write a detailed note on the preparation of estimate of road explaining all items of road work. (60)
- Q.III) List and explain the various stages of Hydro Power Project Development. (60)
- Q.IV) Explain in sequence all the stages of concreting right from the batching plant to complete curing highlighting the key stages where additional precautions are required to be taken. (60)
- Q.V) List the types of diversion structures for Hydro Power Projects and explain the salient features of each. (60)

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PART-III FOR ENGINEERING OFFICERS (ELECTRICAL)

- Q. I) (a) What is the procedure for releasing connection to other consumer from the Sub Station not owned by HPSEB Ltd.? (30)
- (b) How the financial justification is worked out for Temporary connection? (30)
- Q. II) What are the applicable provisions in case where consumer does not avail the full sanctioned load initially at once? (60)
- Q. III) Explain the remedial measures for prevention of theft of energy. (60)
- Q. IV) (a) How the sundry charges & allowance register is maintained? Explain. (30)
- (b) What are the precautions to be observed while making refund of Advance Consumption Deposit? (30)
- Q. V) (a) What are the duties and functions of flying Squad Unit? Explain. (30)
- (b) Calculate the rating of capacitor Bank to improve P.F from 0.85 to 0.9 lag for the following network? (30)

