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.
 - 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 h	eads and
		account codes covered under Revenue from Sale of Power.	[20]
	b)	What are the general principles to regulate the enforce	ment of
		responsibility for losses sustained by board through fr	aud 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 D	ivisional
		officers.	[20]
Q.4)	a)	Describe various modes of Purchase in detail, by giving	g salient
		features of each mode.	[20]
	b)	Explain in detail the procedure of releasing the payments to s	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	l who is
		competent for physical verification of each type of store.	[20]
	PA	ART-II FOR ENGNIEERING OFFICERS (ELECTRICAL)	
Q.1)	a)	How the assessment and charging of energy pilferage is do	ne from
		consumers found stealing of energy?	[20]
	b)	What are the instructions for availing concession of free elect	ricity by
		the employees of HPSEBL?	[20]

Q.2) a) Define the terms:

c)

i) Two Part Tariff

ii) AT& C Losses

[20]

- iii) Cross Subsidy Surcharge
- iv) Smart Meter
- v) Contract demand violation Charges vi) Open Access

writing up of columns in respect of cash realization.

Who is responsible for the maintenance of consumer ledger and

		vii) Unbalance Load	viii) Resale	e of energy [8x2.5]	
	b)	What is the procedure of availing	g connection if	sufficient funds	are not	
		available?			[20]	
	c)	What procedure should be ado	pted in case of	consumer insist	ing for	
		correction of bill before making	a contract of the contract of		[20]	
Q.3)	a)	What action is required to be taken, in case consumer withdraw to talload after issuance of PAC/ Sanction if load or delays in building the load upto sanctioned load.				
	b)	Explain in detail, the procedure	to be followed	while shifting		
		lines or poles because of construc		7.77	[20]	
	c)	Explain Reporting/ Intimation of			[20]	
Q.4)	a)	What do you understand by unauthorized use of electricity and theft				
		of electricity. How the sections 1	26 & 135 are ii	nvoked in these	cases?	
	b)	What are the steps involved to re 11kV.	lease the conne	ection to a cons		
	c)					
	-2	are to be taken by AE/ AEE inspector?		70		
P	ART-	III FOR ENGINEERING OFFI	CERS (CIVIL	MECHANICA	AL)	
Q.1) a	a)	What steps Himachal Pradesh Go	overnment is ta	king for exped	itiously	
		harnessing of its Hydropower res	sources?		[20]	
	b)	What are the important compone write functions of these compone		power project?	Also [20]	
	c)	Explain in detail the hydraulic los	sses in Head Ra	ace Tunnel.	[20]	
Q.2)	Exp	lain the following:-				
	i)	Differential head	ii)	Exit gradient		
	ii	i) Stilling basin	iv)	and Tour		

		v) Cut offs	vi) Design flo	od			
		vii) Contraction joints	viii) Afflux	[8x2.5]			
	b)	What are the advantages and disadvantage mountainous and sub-mountainous region		rage/Weir in			
	c)	What are the points to be considered while Weir? Explain in detail.	le selecting a Barra	age vis-à-vis [20]			
Q.3)	a)	Write detailed note on geophysical method how it is helpful in saving time in investig		tion and [15]			
	b)	b) Write note on the following laboratory tests in Rock mechanics:-					
		i) Pulse velocity ii) Dr iii) Strength	rillability	[3x15]			
Q.4)		Write detailed note along with diagrams on t	the following:-				
	a)	Types of grouting in hydropower tunnels.		[30]			
	b)	Process of grouting in hydropower tunnels	L.	[30]			