

HPPSC

Previous Year Paper
AE EE 2016 Paper 3



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TEST BOOKLET SERIES

TEST BOOKLET A.E. (E) HPPCL-2016



Time Allowed : 2 Hours		[Maximum	Marks: 100
	TW The state of th	(* O)	

All questions carry equal marks.

- INSTRUCTIONS
 Immediately after the commencement of the examination, you should check that test booklet does not have any unprinted or torn or missing pages or items, etc. If so, get it replaced by a complete test booklet.
- Encode clearly the test booklet series A, B, C or D as the case may be in the appropriate place in the answer-sheet.
- 3. Write your Roll Number only in the box provided alongside.

 Do not write anything else on the Test Booklet.
- This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). Choose only one response for each item which you consider the best.
- 5. After the candidate has read each item in the Test Booklet and decided which of the given responses is correct or the best, he has to mark the circle containing the letter of the selected response by blackening it completely with Black or Blue ball pen. In the following example, response "C" is so marked:
 - A B D
- 6. Do the encoding carefully as given in the illustrations. While encoding your particulars or marking the answers on answer sheet, you should blacken the circle corresponding to the choice in full and no part of the circle should be left unfilled. After the response has been marked in the ANSWER SHEET, no erasing/fluid is allowed.
- You have to mark all your responses ONLY on the ANSWER SHEET separately given according to 'INSTRUCTIONS FOR CANDIDATES' already supplied to you. Responses marked on the Test Booklet or in any paper other than the answer sheet shall not be examined.
 - All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet. There will be no negative marking.
- Before you proceed to mark responses in the Answer Sheet fill in the particulars in the front portion of the Answer Sheet as per the instructions sent to you.
- If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct.
- 11. After you have completed the test, hand over the Answer Sheet only, to the Invigilator.

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[Maximum Marks: 100

Time Allowed: 2 Hours

A.E. (E) HPPCL-2016-A

HVDC transmission systems generally use : 1. 12 pulse converters 6 pulse converters (B) 3 pulse converters Either 12 or 6 pulse converters (D) In auxiliary commutated chopper fed by Voltage V and having L and C 2. commutating elements, the peak value of capacitor current is : (B) (D) VC A load commutated chopper circuit has : 3. one thyristor two thyristors (C) four thyristors (D) six thyristors The power factor at the input terminals of a cycloconverter is generally : 4. (A) low and leading low and lagging (C) high and leading (D) high and lagging

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	for:			
	(A) A dc link	(B)	A low voltage ac li	nk
	(C) A high voltage a	ac link (D)	None of these	
6.	A 66 kV system has s	tring insulator hav	ing five discs and the	earth to disc
	capacitance ratio of 0	.10. The string eff	iciency will be :	- A
	(A) 89%	(B)	75%	
	(C) 67%	(D)	55%	
7.	A 100 km transmission	n line is designed for	or a nominal voltage o	f 132 kV and
	consists of one conduc	tor per phase. The	line reactance is 0.72	6 Ω/km. The
	static transmission ca	pacity, in megawat	tts, would be:	o (6
10	(A) 132	(B)	240	
	(C) 416	(D)	720	
8.	While using an air-bla	st circuit breaker,	current chopping is a	phenomenon
	often observed when	CINIE	EDC	
	(A) A long overhead	line is switched of		
	(B) A bank of capaci	tors is switched of	f -	
	(C) A transformer on	no-load is switche	ed off	
	(D) A heavy load is	switched off		
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A synchronous operation between two systems of different frequencies is possible

5.

9.	The most efficient torque-producing actuating structure for	induction-
	type relays :	
	(A) Shaded pole structure	
	(B) Watt-hour-meter structure	
	(C) Induction-cup structure	E
	(D) Single induction loop structure	
10.	A lightning arrester connected between line and earth in pow	er system :
	(A) Protects the terminal equipment against travelling surge	
	(B) Protects the terminal equipment against direct lightning	stroke
	(C) Suppresses high frequency oscillations in the line	
	(D) Reflects back the travelling waves approaching it	
11.	The transient stability limit of a power system can be apprecia	bly increased
	by introducing:	
	(A) series inductance (B) shunt inductance	
	(C) series capacitance (D) shunt capacitance	
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12.	In a power station, the cost of generation of power reduces most
	effectively:
	(A) Diversity factor alone increases
	(B) Both diversity factor and load factor increase
	(C) Load factor alone increases
	(D) Both diversity factor and load factor decrease
13.	For the same voltage drop, increasing the voltage of distributor n -times:
	(A) Reduces the x-section of the conductor by n-times
	(B) Increases the x-section of the conductor by n-times
	(C) Reduces the x-section of the conductor n^2 times
	(D) Increases the x-section of the conductor n^2 times
14.	If a 132 kV line passes over a residential building, the minimum vertical
	clearance from the roof of the building shall be :
	(A) 4.57 m (B) 5 m
	(C) 6 m (D) 3 m
15.	Which of the following affects the corona least?
	(A) Mean free length (B) Atmospheric temperature
	(C) Number of ions (D) Size and charge per ion
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16.	A 1	60 km, 110 kV transmission lin	ne fall	s under the category of:
	(A)	Short transmission line	(B)	Medium transmission line
	(C)	Long transmission line	(D)	Ultra-high voltage line
17.	A ci	ircuit breaker under normal con	ndition	s should be inspected once in :
	(4)	A smale	(B)	A month
	(A)	A week	(D)	A month
	(C)	3 or 6 months	(D)	5 years
18.	Dire	ectional over current relay is us	sed for	protection of:
	(A)	Long transmission line	(B)	Large power transformer
	(C)	Ring main distribution line	(D)	Radial distribution line
19.	Loca	ation of lightning arrester is no	ear a	
	(A)	Generator	(B)	Transformer
	×0\	7	(D)	Ciit bb
	(C)	Bus-bar	(D)	Circuit breaker
20.	The	e inertia constant of a 100 MVA	, 11 k	V water wheel generator is 4. The
	ene	rgy stored in the rotor at the	synchr	onous speed is :
	(A)	400 MJ	(B)	400 kJ
	(C)	25 MJ	(D)	25 kJ
ΔF	(E) H	IPPCL-2016—A 6		

- 21. A lap wound armature winding, fitted with a commutator and a pair of brushes on it is rotated at a speed N_r in a rotating magnetic field having P poles and rotating at a speed N_f in a space N_f and N_r both being in the same direction. The frequency of induced voltage across the brushes on the commutator is:
 - (A) $\frac{N_f P}{120}$

(B) $\frac{\left(N_f - N_r\right)}{120}P$

(C) $\frac{\left(N_f + N_r\right)}{120}P$

- (D) $\frac{N_rP}{120}$
- 22. Laminated yoke in dc motor can reduce :
 - (A) Speed regulation

(B) Iron loss

(C) Temperature rise

- (D) Sparking on load
- 23. A 250 V dc generator is run at rated speed with no excitation. The open circuit voltage will be :
 - (A) Zero E G E E S
 - (B) Very small, say about 2 or 3 V
 - (C) About 100 V
 - (D) 250 V

24.	A dc shunt generator having a	shunt field of 50 Ω was generating norm	ally
	at 1000 rpm. The critical resist	ance of the machine was 80 Ω. Due to se	ome
	reasons, the speed of the prime	-mover becomes such that the generator	just
	failed to operate. The speed at	that time must have been:	
	(A) 1600 rpm	(B) 800 rpm	
	(C) 625 rpm	(D) 500 rpm	
25.	The current flowing through a	rmature conductor of a dc motor is :	
	(A) Pulsating	(B) dc	
	(C) ac	(D) None of these	
26.	In a Ward-Leonard drive, if the	field current of the dc generator is sudd	enly
	reduced, the controlled dc mot	or operates :	
	(A) Still in motoring mode	3347	
	(B) In dynamic braking mode	e	
	(C) In counter-current brakir	ng mode	
	(D) In regenerative braking	mode	
27.	The efficiency of power transfe	ormer is :	
	(A) 50%	(B) 60%	
	(C) 80%	(D) 95%	
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28.	At 50 Hz operation, a single phase transformer has hysteresis loss of
	200 W and eddy current loss of 100 W. Its core loss at 60 Hz operation
	will be:
	(A) 432 W (B) 408 W
	(C) 384 W (D) 360 W
29.	The efficiency of two identical transformers under load conditions can be
	determined by:
	(A) Back to back test (B) Open-circuit test
	(C) Short-circuit test (D) Any of these
30.	Two mechanically coupled alternators deliver power at 50 Hz and 60 Hz
	respectively. The highest speed of the alternators is:
	(A) 3,600 rpm (B) 3,000 rpm
	(C) 600 rpm (D) 500 rpm
31.	A synchronous machine connected to a power system grid bus-bar is operating
	as a generator. To make the machine operate as motor :
	(A) Direction of rotation is to be reversed
	(B) Phase-sequence is to be changed
	(C) Field excitation is to be decreased
	(D) Mechanical input is to be less than the losses at the shaft
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	minding produces :	100
	winding produces :	
	(A) Damping torque	
	(B) Eddy current torque	
	(C) Torque aiding the developed torque	*
	(o) Torque manig the developed torque	
	(D) No torque	
	A voltmeter gives 120 oscillations per minute when connected t	o the ro
	of the following the following in 50 Hz. The	alin of t
	of an induction motor. The stator frequency is 50 Hz. The	sup or t
	motor is:	
	(A) 2% (B) 2.5%	
	(C) 4% (D) 5%	
	Semi-closed or totally closed slots are used in induction motor	occontia
•	Seini-closed of totally closed siots are used in induction motor	essentia
	to:	
	ENGINEEDS	
	(A) Improve pull-down torque	
	(B) Increase pull-out torque	
	(C) Increase officiones	
	(C) Increase efficiency	
	(D) Reduce magnetizing current and improve power factor	

35.	In a shaded-pole motor, shad	ling coils are used to:	
	(A) Reduce winding losses		
	(B) Reduce friction losses		
	(C) Produce rotating magne	tic field	
	(D) Protect against sparking		
36.	The translator program that c	converts source code in high leve	el language inte
1			rr sungunge me
	machine code line by line is	called:	
			2.5
	(A) Assembler	(B) Compiler	
	(C) Loader	(D) Interpreter	
			8 80
37.	In a 8 bit micro-computer, the f	etch cycles required to fetch an 8	byte instruction
			41. * 0.490.000000000000000000000000000000000
	will be:		
	(A) 2	INIEERS	
	(B) 4		5"
	(C) 8		
	(D) Depends upon the desig	n of micro-computer	
W 99			
A.E.	(E) HPPCL-2016—A	11	P.T.O.

What will be the contents of registe MOV BL, 8C MOV AL, 7E ADD AL, BL	er AL, afte	er the following	g has been	executed
MOV AL, 7E				
CONSTRUCTION OF THE CONTRACT O				
ADD AL, BL				
(A) OA and carry flag is set	(B)	OA and carry	flag is r	eset
(C) 6A and carry flag is set	(D)	6A and carry	flag is re	eset
8251 is a:			1. 1.	
(A) UART	1 9			
(B) USART				
(C) Programmable Interrupt Co	ntroller			
(D) Programmable Interval time	er/counter			
In 80186, the timer which conne	ects to sy	stem clock :		
(A) Timer 0	(B)	Timer 1	1	
(C) Timer 2	(D)	Any one can	be connec	cted
A zero to 300 V voltmeter has an	error of	± 2% of the f	ull scale	deflection
If the true voltage is 30 V, th	he range	of readings	on this	voltmeter
would be :				
(A) 20 V to 40 V	(B)	24 V to 36 V		
(C) 29.4 V to 30.6 V	(D)	29.94 V to 30	0.06 V	5.80
E) HPPCL-2016—A	12			
(2 (()	(C) 6A and carry flag is set (S251 is a: (A) UART (B) USART (C) Programmable Interrupt Co (D) Programmable Interval time (A) Timer 0 (C) Timer 2 A zero to 300 V voltmeter has an If the true voltage is 30 V, the would be: (A) 20 V to 40 V (C) 29.4 V to 30.6 V	(C) 6A and carry flag is set (D) 8251 is a: (A) UART (B) USART (C) Programmable Interrupt Controller (D) Programmable Interval timer/counter In 80186, the timer which connects to sy. (A) Timer 0 (B) (C) Timer 2 (D) A zero to 300 V voltmeter has an error of If the true voltage is 30 V, the range would be: (A) 20 V to 40 V (B) (C) 29.4 V to 30.6 V (D)	(C) 6A and carry flag is set (D) 6A and carry 8251 is a: (A) UART (B) USART (C) Programmable Interrupt Controller (D) Programmable Interval timer/counter In 80186, the timer which connects to system clock: (A) Timer 0 (B) Timer 1 (C) Timer 2 (D) Any one can A zero to 300 V voltmeter has an error of ± 2% of the f If the true voltage is 30 V, the range of readings would be: (A) 20 V to 40 V (B) 24 V to 36 V (C) 29.4 V to 30.6 V (D) 29.94 V to 30.6	(C) 6A and carry flag is set (D) 6A and carry flag is reserved. (B) USART (C) Programmable Interrupt Controller (D) Programmable Interval timer/counter (D) Programmable Interval timer/counter (E) Timer 0 (E) Timer 1 (C) Timer 2 (D) Any one can be connected. (A) zero to 300 V voltmeter has an error of ± 2% of the full scale of the true voltage is 30 V, the range of readings on this rewould be: (A) 20 V to 40 V (B) 24 V to 36 V (C) 29.4 V to 30.6 V (D) 29.94 V to 30.06 V

42.	The term artificial aging in in	nstrument is associated with:	
	(A) Springs	(B) Permanent magnets	
	(C) Controlling torques	(D) Damping	
43.	Which of the following instrum	nents is free from hysteresis and eddy cur	rent
	errors ?		
	(A) Moving iron instrument		
	(B) Electrostatics instrument	t	
	(C) Moving coil permanent r	magnet type instrument	R.
	(D) Moving coil dynamomete	er type instrument	
44.		ower measurement, one of the wattmeters the load power factor angle is strictly :	will
	(A) Less than 30°	(B) Less than 60°	
	(C) Greater than 30°	(D) Greater than 60°	
45.	The input impedance of CRO) is nearly :	
	(A) Zero	(B) 10 Ω	
	(C) 100 Ω	(D) 1 MΩ	
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46.	Insu	lation used in commutator is	;	77	-
	(A)	Wood	(B)	PVC	
	(C)	Mica	(D)	Glass	
47.	The	possible breakdown in solid of	lielectri	cs may be :	
	(A)	Electro-thermal	(B)	Electro-chemical	
	(C)	Purely electrical	(D)	All of these	
48.	The	materials which exhibit the sa	me elas	stic properties in all directi	ons are
	calle	ed as:			
	(A)	Isotropic	(B)	Isentropic	
	(C)	Rubbers	(D)	Creep elastics	*
49.	The	life of an insulating material	is affe	cted by :	
	(A)	Voltage application	(B)	Heat	
	(C)	Chemical action	(D)	All of these	
50.	Whi	ch of the following gases is cl	assified	as electro-negative ?	
	(A)	Sulphur hexafluoride	(B)	Methane	
	(C)	Ethane	(D)	Nitrogen	
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				E.		
	(A)	Laplace Transf	orm			37
	(B)	Fourier Integra	al			
	(C)	Laplace Transf	orm and Fou	rier Integral		5
	(D)	None of the ab	oove			
52.	If u	nit step function	is applied to	first order system,	the steady	state
10		be:				
	(A)	T		(B) Zero		
	(C)	Unity		(D) Varying w	ith time	
53.	The	damping ratio	of the charact	teristic equation s ²	+ 2s + 8	= 0 :
	(A)	0.353		(B) 0.350		
	(C)	0.30		(D) 0.333		
i4.	Con	sidering the root	locus diagra	m for system with		
		G(s)	$=\frac{1}{s(s+2)(s-1)}$	$K(s + 5) + 4)(s^2 + 2s + 4)$		
		1.4	·	1	. 8	
1.0	the	meeting points	of the asympt	otes on the real ax	is occur at	:
	(A)	-1.2	*	(B) -0.85		

51. The frequency and time domain are related through :

(C) -1.05

(D) = 0.75

55. The state variable description of linear control system autonomous system is $\overline{X} = A\overline{X}$ where \overline{X} is two-dimensional state vector and A is a matrix given

by
$$A = \begin{bmatrix} 0 & 2 \\ 2 & 0 \end{bmatrix}$$
 the poles of the system are located at :

(A) -2 and +2

(B) -2j and +2j

(C) -2 and -2

- (D) +2 and +2
- 56. The input to the controller is:
 - (A) Sensed signal

(B) Desired variable value

(C) Error signal

- (D) Servo-signal
- 57. Peak overshoot of step-input response of an underdamped second order system is explicitly indicative of :
 - (A) Settling time

(B) Rise time

(C) Natural frequency

- (D) Damping ratio
- 58. The unity circle of Nyquist plot corresponds to the 0 db line of bode plot for:
 - (A) Low frequencies
 - (B) High frequencies
 - (C) Both low as well as high frequencies
 - (D) None of the above
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59.	Lag	compensation improves appreciably the :	
	(A)	Steady state frequency (B) Transient response	
	(C)	Both (A) and (B) (D) None of these	- S
60.	In R	Routh-Hurwitz criterion, if all the elements in one row are zero, th	en there
	are		
	(A)	Pairs of conjugate roots on imaginary axis	. 4
	(B)	Pairs of equal roots with opposite sign	
	(C)	Conjugate roots forming a quadrate in the s-plane	
	(D)	All of the above	
61.	In a	a travelling electromagnetic wave, E and H vector fields :	
	(A)	Perpendicular in space	
	(B)	Parallel in space	
	(C)	E is in direction of wave travel .	
8	(D)	H is in direction of wave travel	
62.	The	intrinsic impedance of free space is :	
ď,	(A)	75 Ω (B) 73 Ω	
	(C)	120 $\pi\Omega$ (D) 377 Ω	
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- 63. Poisson's equation is given by :
 - (A) $\nabla^2 V = \frac{-\rho}{\epsilon}$

(B) $\nabla^2 V = -4\pi\sigma$

(C) $\nabla^2 V = -4\pi\rho$

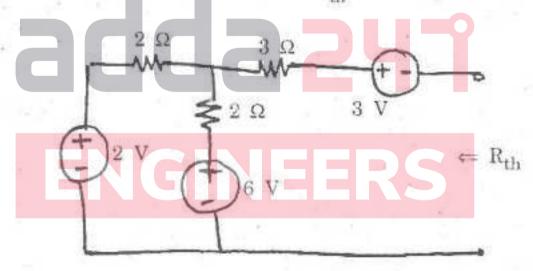
(D) $\nabla^2 \nabla = 0$

- 64. Poynting vector gives :
 - (A) Rate of energy flow
- (B) Direction of polarization
- (C) Intensity of electric field
- (D) Intensity of magnetic field
- 65. Superposition theorem is applicable only to networks that are :
 - (A) Linear

(B) Nonlinear

(C) Time-invariant

- (D) Passive
- 66. The Thevenin's equivalent resistance Rth for the given network :



(A) 2 Ω

(B) 3 Ω

(C) 4 Ω

(D) 5 Ω

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67.	Two inductors of value L ₁ and L ₂ are coupled by mutual inductance M.
	By interconnection of the two elements one can obtain the maximum
	inductance of:
	(A) $L_1 + L_2 - M$ (B) $L_1 + L_2$

(C) $L_1 + L_2 + M$ (D) $L_1 + L_2 + 2M$

The poles of Butterworth polynomial lie on :

- (A) A parabola (B) A left semicircle
 - (C) A right semicircle (D) An ellipse
- 69. A two port network using Z parameter representation is said to be reciprocal if:
 - (A) $Z_{11} = Z_{22}$ (B) $Z_{12} = Z_{21}$
 - (C) $Z_{12} = -Z_{21}$ (D) $Z_{11}Z_{22} Z_{12}Z_{21}$
- 70. The coupling between two magnetically coupled coils is said to be ideal if the coefficient of coupling is:
 - (A) 0 (B) 0.1
 - (C) 1 (D) 2

68.

71.	Three identical impedance	ces are connected in delta to a 3-phase supply of
	400 V. The line-current	is 34.65 A and the total power taken is 14.4 kW.
	The resistance of load in	each phase in ohms is:
	(A) 20	(B) 16
	(C) 12	(D) 10
72.	The NAND gate output	will be low if the two inputs are :
	(A) 00	(B) 01
	(C) 10	(D) 11
73.	How many flip-flops are	required for mod-16 counter ?
	(A) 5	(B) 6
	(C) 3	(D) 4
74.	Which of the following is	
	(A) TTL	(B) ECL
	(C) CMOS	(D) LSI
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75.	In applications where measurement of a physical quantity is involved, the							
	OPA	AMP circuit recommended is :						
	(A)	Basic non-inverting amplifier					18	
	(B)	Comparator			* *			
	(C)	Active filter				2.		
	(D)	Instrumentation amplifier						
76.	A n	otch filter is :					8	
	-(A)	Wide band pass filter	(B)	Narrow	band pass f	ilter		
	(C)	Wide band reject filter	(D)	Narrow	band reject	filter		
77.	For	thyristors, plug triggering is p	referr	red to dc	triggering be	ecause :		
	(A)	Gate dissipation is low						
	(B)	Pulse system is simpler						
	(C)	Triggering system is required	for v	ery short	duration			
	(D)	All of the above	-	H:				
78.	In c	onstant source inverter, if frequen			age is f Hz, the	nen frequ	ency	
	of v	oltage input to constant source	inve	rter is :		a .		
	(A)	f	(B)	2f				
	(C)	3f	(D)	4f				
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79.	In d	lc choppers, per unit ripple i	s maxim	um when duty cy	ycle α is :	
	(A)	0.2	(B)	0.5		
	(C)	0.7	(D)	0.8		
80.	The	single pulse modulation of	PWM in	nverters, third ha	armonics can b	e
	elim	inated if the pulse width is	equal to	:		
	(A)	30°	(B)	60°		
	(C)	120°	(D)	None of these		
81.	Acco	ording to 2011 Census which	District	of H.P. has lowes	t literacy amon	g
	fem	ales ?			2 10	4
	(A)	Kinnaur	(B)	Kullu		
F.	(C)	Chamba	(D)	Lahul-Spiti		
82.	In v	which District of H.P. is Bha	ingyani t	temple ?		
	(A)	Bilaspur	(B)	Solan		
	(C)	0.20	(D)	Kullu		
83.	Who	o founded the Guler princely	state ?			1
	(A)	Mauj Chand	(B)	Hari Chand		
	(C)	Rattan Chand	(D)	Nand Chand		
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84.	With which region of H.P. is Shegtsum festival mainly associated?						
	(A) Kinnaur	(B) Sirmaur					
	(C) Una	(D) Lahul-Spiti					
OE.	To which deity is Nawala festiva	I dedicated ?					
85.	10 which delty is Nawaia lestive	ii dedicated .					
	(A) Kali	(B) Shiva					
	(C) Ganesha	(D) Visnu					
		I WD C	1 2				
86.	How much subsidy is given by	the H.P. Government on Pol	y nouses ?				
1	(A) 70 percent	(B) 75 percent					
	(\$1000) - 1.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5						
	(C) 80 percent	(D) 85 percent	.77 30				
87.	In which river basin is Rukti H	ydel Project ?					
	(A) Satluj	(B) Ravi					
	(A) Sauuj	(B) Itavi					
	(C) Beas	(D) Yamuna	1.3				
¥	ENGIN	VEERS					
88.	What is the maximum distance	e upto which HRTC allow	s discount of				
	passengers during return journe	y under its Green Card Sch	neme ?				
	(A) 30 kms	(B) 40 kms					
	(C) 50 kms	(D) 60 kms					
1000		33 1	n m o				
A.E.	(E) HPPCL-2016—A	23	P.T.O.				

89.	Who was the first Chief Justice of H.P. High Court?					
	(A) J	ustice R.S. Pathak	(B)	Justice T.U. Mehta		
	(C) J	ustice M.H. Beg	(D)	Justice V.D. Misra		
90.	With	which region of H.P. is Kay	ang dar	nce mainly associated ?		
	(A) E	Silaspur	(B)	Sirmaur		
	(C) U	Jna	(D)	Kinnaur		
91.	Which	North-Eastern State of Inc	lia has	largest number of Districts ?		
	(A) A	Asom	(B)	Arunachal Pradesh		
	(C) I	Vagaland	(D)	Meghalaya		
92.	What	is major religion of Laksha	ıdweep	RS		
	(A)	Hinduism	(B)	Islam		
	(C)	Christianity	(D)	Jewish		
A.E.	(E) HP	PCL-2016—A	24			

93.	When was the river Ganga of	declared a N	ational River ?	
	(A) 2001 AD	(B)	2003 AD	
	(C) 2008 AD	(D)	2014 AD	
94.	When was Jan Dhan Yojna	launched in	India ?	*
	(A) August, 2014	(B)	October, 2014	
	(C) December, 2014	(D)	January, 2015	
95.	When was Press Council of	India set up	?	
	(A) 1955 AD	(B)	1966 AD	
	(C) 1977 AD	(D)	1988 AD	
96.	Which President of U.S.A. be	came the Ch	nief Justice of the Sup	reme Court
	after the end of his Presiden	tial term ?		
	(A) William Howard Taft	(B)	Calvin Coollidge	
5	(C) Herbert Clark Hoover	(D)	Grover Cleveland	
A.E.	(E) HPPCL-2016—A	25		P.T.O.

97.	To which co	untry did Miss	Ariadna Gutie	errez who was wr	ongly declared Miss
*	Universe 20	015 belong?			
	(A) Thaila	and	(В) Philippines	
	(C) Colum	ıbia	(D) Ireland	
98.	What is th	e currency of	People's Repul	blic of China?	
	(A) Renmi	inbi Yuan	(В	Won	
	(C) Yen		(D) Kip	
99.	Who is the	e author of Do	ctor Zhivago ?		
	(A) Steph	en King	(B	George Berna	ard Shaw
	(C) Boris	Pasternak	(I) Alexander So	olzhenitsyn
100.	How many	member natio	ons did UN ha	ave when it was	founded ?
	(A) 48		(H	3) 51	4
	(C) 63		(1	0) 74	
A.E.	(E) HPPCL-	2016—A	26		