

HPPSC

Previous Year Paper
AE EE 2016 Paper 1



DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

TEST BOOKLET SERIES

TEST BOOKLET AE(ELECT.)/DY. MANAGER HPPTCL-2016



	All questions carry equal marks.
	INSTRUCTIONS
1.	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.
2.	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.
4.	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

- 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.
- 7. 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.
- 8. 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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Time	Allo	wed : 2 Hours]		[Maximum Marks : 1	00
1.	Whi	ch of the following does not c	hange	in a transformer ?	
9 -	(A)	Voltage	(B)	Current	
	(C)	Frequency	(D)	Power factor	
2.	A 10	0 kVA auto-transformer has tur	rn ratio	o of 0.4. Find the power transferr	ed
	indu	actively:			
	(A)	0 kVA	(B)	4 kVA	
	(C)	6 kVA	(D)	10 kVA	
3.		makes effective savir	ngs on	copper and copper losses when	its
	tran	nsformation ratio is approxima	tely eq	qual to one.	
	(A)	Auto-transformer	ī	EDS	
	(B)	Two winding transformer	18 4		
	(C)	Three winding transformer			
	(D)	Instrument transformer			
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4.	A c	ommon method of	cooling a powe	er tra	ansformer is :
	(A)	Oil cooling		(B)	Natural air cooling
	(C)	Air blast cooling		(D)	Water cooling
5.		compe	nsation in an I	EHV	line is used to improve the voltage
	prof	ìle.			22 E
	(A)	Series		(B)	Shunt
	(C)	Active power		(D)	Any of these
6.	SSS	C is a	FACTS d	evice	a 8
	(A)	Shunt-series	da	(B)	Shunt-shunt
	(C)	Shunt		(D)	Series
7.	The	value of boost facto	or is equal to		when TCSC is operated
	in b	blocking mode.			
	(A)	Zero		(B)	0.5
	(C)	0.8		(D)	Unity

8.	If, for a given alternator in econom	nic operation mode, the	e incremental cost
	is given by IC = 0.012P + 8 Rs/M	W, $\frac{dP_L}{dP} = 0.2$ and pl	ant penalty factor
	(λ) = 25, then the power generation	on is:	
	(A) 750 MW	(B) 1000 MW	, ti
	(C) 1950 MW	(D) 1500 MW	

- 9. In Thevenin's theorem, Zth is determined by :
 - (A) Short-circuiting all independent current and voltage sources
 - (B) Open-circuiting all independent current and voltage sources
 - (C) Short-circuiting all independent voltage sources and open-circuiting all independent current sources
 - (D) Open-circuiting all independent voltage sources and short-circuiting all independent current sources
- 10. The power delivered to a 3-phase load can be measured by the use of 2 wattmeters only when the :
 - (A) Load is balanced
 - (B) Load is unbalanced
 - (C) 3-phase load is connected to the source through 4 wires
- (D) 3-phase load is connected to the source through 3 wires AE(ELECT.)/DY. MANAGER2016—A 4

(A) Volts (B) Amperes (C) Watt-hour (D) Ampere-hour	ire in a
(C) Watt-hour (D) Ampere-hour	ire in a
	ire in a
12. According to IS, colour is used for the neutral w	
3-pin socket.	
(A) Red (B) Black	
(C) Green (D) Yellow	
13. Normally Y _{BUS} matrix is a :	
(A) Null matrix (B) Sparse matrix	
(C) Full matrix (D) Unity matrix	
14. Compared to Newton-Raphson method, FDLF method takes :	
(A) Less number of iterations and more time per iteration	
(B) Less number of iterations and less time per iteration	
(C) More number of iterations and more time per iteration	Ä,
(D) More number of iterations and less time per iteration	

15.	A line which connects a distribut	or to s	ubstation is called	:
	(A) Feeder	(B)	Service main	W.
	(C) Distributor	(D)	Any of these	
16.	ELCB stands for :	d.	4. 1.	
	(A) Elevated light circuit block			
	(B) Earth leakage circuit breake	r	N	
	(C) Earth limit circuit breaker			
	(D) Elevated lamp circuit bench			Arri
17.	For a power plant, the expenditure	on whic	ch of the following i	tems is expected
	to be negligible ?			
	(A) Wages	(B)	Insurance	7
	(C) Publicity	(D)	Taxes	
18.	AC servo motor is basically a :		EDC	
	(A) Two-phase induction motor		ER5	
	(B) Universal motor			
	(C) Capacitor motor			
	(D) Three-phase induction motor	:a	181	
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19.	Opto-cou	upler is used to :				
	(A) Iso	late gating circuitry fr	om power lines			
	(B) Pro	otect IGBTs against de	r/dt			
	(C) Re	duce gate signal				ă,
	(D) Re	duce SCR turn-off tim	е			
20.	A laser	diode can readily be p	oulse-modulated,	since the pho	ton life ti	me is
		than the carrier	life time.			
	(A) M	uch higher	(B) Hig	gher		
	(C) Sn	naller	(D) Mu	ich smaller		
21.		is generally not	used in industr	у.		
	(A) D	C shunt motor	VEE	RS		
	(B) De	C series motor				
	(C) C	umulative compound D	C motor			
	(D) D	ifferential compound D	C motor			
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22.		is general	ly preferred for	electric traction.	80
	(A)	DC shunt motor			
	(B)	DC series motor			100
	(C)	Synchronous motor			
	(D)	Stepper motor			
23.	DVI	R in distribution system	m is analogous t	o in	transmissio
	syst	em.	1	14 15 mm	
	(A)	SSSC	(B)	svc	
	(C)	STATCOM	(D)	UPFC	
24.	Rela	ay is a/an :	- 8		
	(A)	Indicating device	(B)	Switching device	
	(C)	Earthing device	(D)	Modulating device	
25.	*****	is never	operated on bel	t.	
	(A)	DC shunt motor	INE	ERS	
	(B)	DC series motor		The state of the s	8
	(C)	Cumulative compou	nd DC motor		
	(D)	Differential compoun	nd DC motor		
AE(I	ELEC	T.)/DY. MANAGER	.2016—A 8		
		NE.			

26.	is dual of to	vig voltage.	- S
	(A) Link voltage	(B) Twig current	23
	(C) Link current	(D) Twig power	(4)
27.	A can be p	lotted from chronological lo	ad curve.
	(A) Load duration curve		
	(B) Mass curve		
	(C) Energy load curve		
	(D) Both load duration cur	ve and mass curve	
28.	Power transmission system r	nay also have an impact on	the quality of power
	This is because the modern tra	nsmission systems have a/an	low
	ratio resulting in low system	n damping.	
	(A) Resistance to reactance	NEERS	1.0
	(B) Reactance to resistance	9	
	(C) Reactance to impedan	ce	
	(D) Impedance to resistan	ce	, -
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29.	*****	is used in transf	ormer(s) for determining h	eating informa-
9	tion		E0 1		
	(A)	Open circuit test	(B)	Short circuit test	
	(C)	Polarity test	(D)	Sumpner's test	
30.	Meg	gger is an instrument for :			
3 1	(A)	Measuring very low resistance	e	F 2	
	(B)	Measuring low resistance			
	(C)	Measuring medium resistance			B #
	(D)	Measuring high resistance			
31.	THE) is an index used to measure			111
	(A)	Harmonics	(B)	Flicker	Poor I
98	(C)	Voltage Sag	- (D)	Over-voltage	
32.	The	responsibility of removing the	harmo	nics introduced in	current lies on
	the	shoulders of:	Ģ.	100	
	(A)	Electric utility	(B)	Electric consumer	
	(C)	Both (A) and (B)	(D)	Neither (A) nor (E	0
AE(E	LECT	C.)/DY. MANAGER2016—A	10		100

	enerator bus is treated as a load bus in subsequent ite	TOTAL PORT
its :		×
(A)	Voltage limit is violated	
(B)	Active power limit is violated	
(C)	Reactive power limit is violated	
(D)	Phase angle limit is violated	8
The	basic electrical requirement in arc welding is that there	should
(A)	coated electrodes	
(B)	no arc blow	
(C)	dc power supply	
(D)	high open-circuit voltage	g -
3-pl	nase load is said to be balanced when:	
(A)	Voltage induced in each phase is equal in magnitude	
(B)	Voltage induced in each phase are displaced by 120° w.r.	.t. each
		1000

(D) Both (A) and (B)

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				a w	
36.		gate is consider	ed as a univer	sal gate.	
	(A) AND	181	(B) NAN	ID .	
	(C) OR		(D) NOT		
37.	Energy consumpt	cion per unit GI	OP is called:		W 1/4
	(A) Energy rati	0			a *
	(B) Energy inte	nsity			
	(C) Per capita o	onsumption			
	(D) All of the a	bove			
38.	A firm switches	from a low ash	and low moist	ure fuel to a	less expensiv
	high ash and hig	h moisture fuel	by retrofitting	g a furnace.	The most likel
	impact of the me	asure is :			
	(A) saves fuel c	ost and reduces	energy consu	mption	
265	(B) saves fuel c	ost but increase	s energy cons	umption	
	(C) increases fu	el costs and ene	rgy consumpt	ion	
- 17	(D) None of the	above			
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39.	If the Z parameters of a two-port network are Z_{11} = 5 ohm, Z_{22} = 7 ohm,
	Z_{12} = Z_{21} = 3 ohm, then the A, B, C, D parameters are respectively given
	by:
	(A) 5/3, 22/3, 1/3, 7/3 (B) 5/3, 26/3, 1/3, 7/3

- (C) 10/3, 52/3, 2/3, 14/3
- (D) 15/3, 78/3, 8/3, 21/3
- 40. The reading of the wattmeter connected to measure the active power in a three-phase circuit is given by zero, the line voltage is 400 V and line current is 15 A; then the pf of the circuit is:
 - (A) Zero (B) 0.5 (C) 0.8 (D) Unity
- 41. The maximum possible mutual inductance of two inductively coupled coils with self-inductances L_1 = 36 mH and L_2 = 100 mH is given by :
 - (A) 136 mH

(B) 100 mH

(C) 60 mH

D) 36 mH

internal void of 1 mm thickness. If the void is filled with air down at 21 kV/cm, determine the voltage at which an internal occur : (A) 0 kV (B) 2.1 kV (C) 6 kV (D) 8.1 kV	which breaks
occur : (A) 0 kV (B) 2.1 kV	
(A) 0 kV (B) 2.1 kV	discharge can
Waster Visionarias	
Waster Visionarias	32
(C) 6 kV (D) 8.1 kV	
(C) 6 kV (D) 8.1 kV	0.00
43. An absolute electrostatic voltmeter has a movable circular p	late 9 cm in
diameter. Determine the potential difference if the distance between	100 W



44. A certain 3-phase equilateral transmission line has a total corona loss of 55 kW at 108 kV and a loss of 100 kW at 111 kV. What is the disruptive critical voltage?

during a measurement is 5 mm and force of attraction is 0.2 gm-wt.

(A) 57.38 kV

(B) 60.73 kV

(C) 65.83 kV

(D) 70.37 kV

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¥45.	Paschen's law does not hold good for many gaseous mixtures. The dielectric
	strength of some mixtures is even smaller than the dielectric strengths of
	their constituent gases. This phenomenon is known as
	(A) Penning effect (B) Proximity effect
	(C) Skin effect (D) Pinch effect
46.	The following point(s) is/are true for x-circles in Smith chart :
	(A) The centre of every r-circle lies on Γ,-axis
	(B) The circle for which $r = 0$ is the largest with unity radius and centered
	at origin.
	(C) As r increases from 0 to ∞ , the r -circles become progressively smaller
	(D) All of the above
47.	A quarter wave loss-less line reflects the load impedance to the input ter-
	minals as: (A) Its inverse multiplied by the square of the characteristic resistance
	(A) Its inverse multiplied by the square of the characteristic
	(B) The input impedance
	(C) The impedance of the inductor
	(D) The impedance of the capacitor
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48.	In	HVDC	transmission,	there	are	predominant	2
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- (A) Current harmonics on ac side and voltage harmonics on dc side of converters
- (B) Voltage harmonics on ac side and current harmonics on dc side of converters
- (C) Current harmonics only on the dc side of the converters
- (D) Voltage harmonics only on the ac side of the converters
- 49. Brewster's angle is given by $\theta_B = \tan^{-1}(\dots)$.

(A)
$$\sqrt{\frac{\varepsilon_1}{\varepsilon_2}}$$
 (B) $\sqrt{\frac{\varepsilon_2}{\varepsilon_1}}$

(C) $\sqrt{\epsilon_1 \, \epsilon_2}$ (D) none of these

50. Poynting Vector P is given by :

(A) E + H

(B) E - H

(C) E . H

(D) E × H

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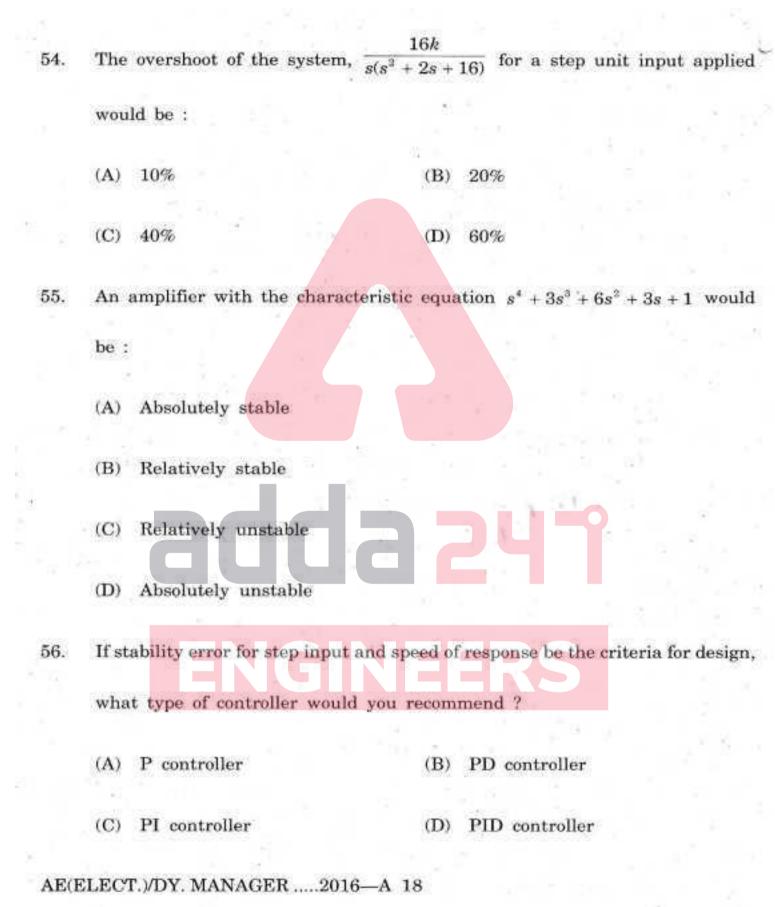
51.	*In mo	de, the magnetic field H is tra	nsverse to the direction of
	propagation.		
	(A) TM	(B) TE	

- (C) TEM (D) None of these
- 52. According to Maxwell's curl equation for electric field

(A)
$$\nabla \cdot \mathbf{E} = 0$$
 (B) $\nabla \times \mathbf{E} = 0$

(C)
$$\nabla \cdot \mathbf{E} = \frac{\mathbf{Q}}{\varepsilon}$$
 (D) $\nabla \cdot \mathbf{E} = \rho$

- 53. In a negative feedback system with loop gain T, the noise as input to the amplifier leads to :
 - (A) Increase in S/N ratio by (1-T)
 - (B) Decrease in S/N ratio by (1 + T)
 - (C) Increase in S/N ratio by (1 + T)
 - (D) No effect on S/N ratio



≠ 57.	In its application, an SUS behave	ves in the same way as :	
	(A) UJT	(B) SCR	
	(C) Tunnel diode	(D) None of these	
58.	In a single-phase full converter, if l	oad current is I and ripple free, th	ien average
	thyristor current is :		
	(A) I/2	(B) 1/3	
	(C) I/4	(D) I	
59.	In single-pulse modulation of PW	M inverters, fifth harmonic car	n be elimi-
	nated if pulse width is equal to		
	(A) 30°	(B) 36°	
	(C) 72°	(D) 108°	
60.	In dc choppers, for chopping period	od T, the output voltage can be	controlled
	by FM by varying:		81.33
	(A) T keeping Ton constant	(B) Ton keeping T constant	nt
	(C) Toff keeping T constant	(D) None of these	
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61.	Whic	h one of the foll	owing is custon	m pov	wer device ?	
	(A)	IPFC		(B)	STATCOM	
26	(C)	SPS		(D)	UPQC	
62.	For a	n amplifier, the	coupling meth	od wi	hich gives the highes	t gain is :
		Capacitance cou				
		Resistance coupli				
	(D) T	Fransformer coup	oling		047	
63.	Numb	er 1000 is stored	in a shift righ	t regi	ster. If two right-shif	t pulses are
	applie	d, the number in	n the register v	will b	ecome :	
	(A) 1	0000	y y	(B) (0100	
	(C) 0	010		(D) 1	100000	

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64.	Bearings used to support	ixles of rolling stock are :	e rel
	(A) Bush bearings	(B) Journal bearings	
	(C) Ball bearings	(D) Roller bearings	
65.	A rectifier for welding has	voltage/current characteristics as	s :
	(A) Rising	(B) Drooping	1.1
46	(C) Static	(D) Variable	
66.	The consumption of M.I.	instrument as compared to M.	C. instrume
nuitsa.	is:		
	(A) very small	(B) less	
. 1	(C) same	(D) more	
67.	A 10 MHz CRO has :	H. A. S.	
	(A) 5 MHz sweep	NEERS	
	(B) 10 MHz vertical oscil	ator	
	(C) 10 MHz horizontal os	cillator	
	(D) 10 MHz supply frequ	ency	

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68.	The instrument used to mea	asure frequency in wave guides is :	Ļ
	(A) Bolometer	(B) Cavity resonator	
	(C) Galiometer	(D) Klystron	
			2
69.	In the ring main distribution	n system, the distributor is fed:	
	(A) By one feeder	(B) By two feeders	
	(C) At different points	(D) By four feeders	
70.	The spacing between phase co	onductors of a 220 kV line is approximately equal	
		7 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	
	to:		
	(A) 2 m	(B) 3.5 m	
	X		
	(C) 6 m	(D) 8.5 m	
		NEERS	
71.	The loss load factor is given	by (if F is the load factor):	
	2		
	(A) $0.25 \text{ F} + 0.75 \text{ F}^2$	(B) $0.25 \text{ F}^2 + 0.75 \text{ F}$	
55			
	(C) 0 F F . C CF F2	CON 2 COLUMN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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, 72.	Kea	ctors are used at various	is points in t	he power systen	to:
	(A)	Limit short circuit cur	rent	· 10	19
	(B)	Increase short circuit	current		
	(C)	Avoid short circuit			
	(D)	None of the above			
73.	Bac	k-up protection is used	to protect :		
24.1	(A)	Overvoltages	(B)	Overcurrents	
	(C)	Transient current	(D)	Short-circuits	
74.	The	diameter of a 50 SWG	wire is close	r to:	
	(A)	0.0253 mm	(B)	0.05 mm	
	(C)	0.16 mm	(D)	0.52 mm	100
75.	Whi	ch of the following logic	s has excelle	nt noise margin	?
	(A)	TTL:	(B)	ECL	
	(C)	CMOS	(D)	All of these	
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76.	Which of the following circuits exhibits memory?
	(A) Astable multivibrator
	(B) Bistable multivibrator
	(C) NAND gate
	(D) XOR gate
77.	An increase in the modulation index leads to increase in bandwidth in case
	of;
	(A) AM (B) FM
	(C) PM (D) both FM and PM
78.	A change of 5% in supply voitage to a 3-phase induction motor will produce
	the approximate change in the torque of :
	(A) 5% (B) 7.5%
	(C) 10% (D) 25%
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7 9.	Acti	ve power is a function of		····
	(A)	Voltage phase angle		
	(B)	Voltage magnitude		
	(C)	Reactive power		
	(D)	Reactance		38
80.	The	direction of rotation in a s	haded-pole	notor is always towards the
	(A)	Salient pole	(B) C	Consequent pole
	(C)	Main pole	(D) S	haded pole
81.	Whi	ich mountain pass joins Lal	naul with Za	inskar ?
	(A)	Shing dkon	(B) F	Lugti
	(C)	Kunjam	(D) N	lone of these
82.	Whi	ich raja of Mandi princely s	tate founde	d the Mandi town ?
	(A)	Bahu Sen	(B) I	Ban Sen
	(C)	Ajbar Sen	(D) I	Bir Sen

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83.	When was the treaty of Lahor	e signed between the British Gover	nment and
23	the Sikhs by which the Sikh	as ceded to the British Governme	nt all hill
	territories south of Satluj ?		
			100
	(A) 1815 AD	(B) 1842 AD	
	(C) 1846 AD		
	(C) 1040 AD	(D) 1849 AD	
84.	According to a story in Mahab	harata the Audumbaras are the de	scendants
	of		
1 17			
	(A) Vashishtha	(B) Vishvamitra	10
	(C) Vyasa	(D) Jamdagini	
85.	With which region of H.P. is I	Bonyangchu folk-dance associated i	
	(A) Sirmaur	(B) (Cl)	
	ACCEPTAGE OF THE PARTY OF THE P	(B) Chamba	
	(C) Kinnaur	(D) Kangra	
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⊬86.	Who among the following v	was not associa	ted with Mandi cor	spiracy of 1914-
	15 ?			
		417		
	(A) Shobha Ram			
	(B) Mian Jawahar Singh	i e		
	(C) Hardev			
	(D) Mathra Dass			
87.	When was the title of rule	er of Keonthal	princely state rais	ed/changed from
	'Rana' to 'Raja' ?			
	(A) 1857 AD	(B)	1902 AD	
	(C) 1911 AD	(D)	1917 AD	
88.	On which river/stream is	Chambapattar	n bridge ?	FF 18
	(A) Ravi	(B)) Siul	
	(C) Chenab	(D)	None of these	
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89,	When was Pradhan Mantri Jee	van Jyoti Bima Yojna launched ?	
	(A) November, 2014	(B) February, 2015	
	(C) May, 2015	(D) July, 2015	
90.	In which river basin is Sissu H	vdel Power Project ?	
	(A) Chenab	(B) Ravi	
	(C) Beas	(D) Yamuna	
91.	How many votes of the Electoral	College were needed by Donald Trump	to
	get elected as the President of the	ne U.S.A. ?	
	(A) 219	(B) 270	
	(C) 319	(D) None of these	
92.	Who is the President of Israel?		
	(A) Reuven Rivlin	EERS	
	(B) Michael D. Hinggins		
	(C) Park Geun-hype		
	(D) Raimonds Vejonis		
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93.	Around which date did the	U.K. vote to	leave the Europ	ean Union	?
	(A) May 10	(B)	June 23		
	(C) July 28	(D)	August 14		
94.	Where is the Headquar	ters of the l	interpol (Inter	national	Police
	Organisation)?				
	(A) Milan (Italy)	(B)	Lyon (France)		
	(C) Oslo (Norway)	(D)	Cologne (Germa	any)	
95.	Who succeeded Ban-Ki-M	oon as the S	ecretary-Genera	of the	United
	Nations ?		24		
	(A) Rodriga Duterte	2/9		7	a
	(B) Antonio Guterres	INE	ERS		
	(C) Anibal Cavaco Silva				
	(D) None of the above				

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96.	Around which year was the Stat	e Bank of Saurashtra merged with the SB
	(State Bank of India) ?	
	(A) 2008	(B) 2010
	(C) 2012	(D) 2014
97.	Which of the following countries d	id not participate in the Four Nation Hockey
	Tournament held in Australia o	n November 23, 2016 ?
	(A) Malaysia	(B) New Zealand
	(C) Pakistan	(D) India
98.	How many women pilots of India	are participating in National Paragliding
	Accuracy Championship being	held at Billing in Kangra District of
	H.P. ?	
	(A) None	(B) One
	(C) Two	(D) Three
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- 99. Which day is observed in India as Kisan Divas ?
 - (A) December 05
 - (B) December 07
 - (C) December 16
 - (D) December 23
- 100. Which nationalist leader is called Punjab Kesari?
 - (A) Bhagat Singh (Shaheed)
 - (B) Lala Lajpat Rai

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- (C) Hardyal
- (D) Madan Lal Dhingra