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

TEST BOOKLET SERIES

TEST BOOKLET AP(ME)-2017



Time Allowed: 2 Hours] [Maximum Marks: 100

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 and 1/4 (0.25) of the marks will be deducted as penalty for wrong answers.
- 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 Allowed : 2 Hours

[Maximum Marks: 100

1. The barometric pressure at the base of a mountain is 750 mm Hg and at the top 600 mm Hg. If the average air density is 1 kg/m³, the height of the mountain is approximately:

(A) 2000 m

(B) 3000 m

(C) 4000 m

(D) 5000 m

2. The heat transferred by conduction, convection and radiation in :

- (A) Melting of ice
- (B) Boiler furnaces
- (C) Condensation of steam in condenser
- (D) None of the above

3. The air standard efficiency of diesel cycle will be less than that of Otto cycle in the case of:

- (A) Same compression ratio and same heat input
- (B) Same maximum pressure and same heat input
- (C) Same maximum pressure and same output
- (D) Same maximum pressure and same maximum temperature

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4.	Military type of organization is known as:				
	(A) Line organization				
	(B) Functional organization				
	(C) Line and staff organization				
	(D) Line, staff and functional organization				
5.	Stress concentration is caused due to :				
4	(A) Variation in load acting on a member				
	(B) Variation in properties of materials in a member				
7	(C) Abrupt change in cross section				
	(D) All of the above				
6.	If the cutting speed is increased, then the built-up edge :				
	(A) Becomes longer				
	(B) May or may not form				
	(C) Becomes smaller and finally does not form at all				
	(D) Has nothing to do with speed				
	em acce a				

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7.	In vapour compression refrigerator system, a throttle valve is used in place
	of an expander because :
	(A) It considerably reduces mass of the system
	(B) It improves the C.O.P., as the condenser is small
	(C) The positive work in isentropic expansion of liquid is very small
	(D) It leads to significant cost reduction
8.	A steel bar of 15 mm is heated from 15°C to 50°C and it is free to expand.
	The bar will induce:
	(A) No stress
	(B) Shear stress
	(C) Tensile stress
	(D) Compressive stress
9.	The Gibbs free-energy function is a property comprising :
	(A) Pressure, volume and temperature
	(B) Enthalpy, temperature and entropy
	(C) Temperature, pressure and enthalpy
	(D) Volume, enthalpy and entropy
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	10.	A po	int on a connecti	ing link (excludi	ng end poin	its) of a d	ouble sli	der crank	
		mech	nanism traces a	:					
		(A)	Straight line pa	ath					
		(B)	Hyperbolic path	i .					
		(C)	Parabolic path					* k	
		(D)	Elliptical path				٠		
	11.	The	pressure of a l	liquid measured	with the	help of a	piezom	eter tube	1
		is:							
63		(A)	Vacuum pressu	re					
		(B)	Gauge pressure						
		(C)	Absolute pressu	ure				6	
(1)		(D)	Atmospheric pr	ressure					
	12.	A st	team pipe is to be	e lined with two	layers of in	sulting ma	aterials o	of differen	4
		the	rmal conductiviti	es. For minimu	m heat trai	nsfer :			
		(A)	the better insu	lation must be	put inside			281	
		(B)	the better insu	lation must be	put outside				
		(C)	one could place	e either insulati	ion on eithe	er side		3	
		(D)	one should take	e into account tl	ne steam te	mperature	before o	leciding a	S
			to which insula	ation is put wh	ere				
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13.	Stoichiometric ratio is :
	(A) Chemical correct air-fuel ratio by weight
	(B) Chemical correct air-fuel ratio by volume
	(C) Air-fuel ratio for maximum efficiency
	(D) None of the above
14.	The interchangeability can be achieved by :
	(A) standardisation
	(B) better process planning
25	(C) bonus plan
	(D) better product planning
15.	Auto frettage is the method of:
	(A) joining thick cylinders
	(B) pre-stressing thick cylinders
	(C) calculating stresses in thick cylinders .
	(D) increasing the life of thick cylinders
16.	The thrust force will increase with the increase in :
	(A) side cutting edge angle
	(B) tool nose radius
	(C) rake angle
	(D) end cutting edge angle
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In a lithium bromide absorption refrigeration system : 17. (A) lithium bromide is used as a refrigerant and water as an absorbent water is used as a refrigerant and lithium bromide as an absorbent (C) ammonia is used as a refrigerant and lithium bromide as an absorbent none of the above The unit of elastic modulus is the same as those of : 18. (A) Stress, shear modulus and pressure (B) Strain, shear modulus and force (C) Shear modulus, stress and force (D) Stress, strain and pressure The Coriolis component of acceleration is taken into account for : 19. (A) slider crank mechanism (B) four bar chain mechanism

(C) quick return motion mechanism

20.	An instrument which offers no obstruction to the flow, offers no additional
	loss and is suitable for flow rate measurement is :
	(A) Venturimeter
	(B) Rotameter
	(C) Magnetic flow meter
	(D) Bend meter
21.	Up to critical radius of insulation :
	(A) added insulation will increase heat less
	(B) added insulation will decrease heat loss
4	(C) convective heat loss will be less than conductive heat loss
	(D) heat flux will decrease
22.	Which of the following symptoms shows that the combustion in air is
	necessarily complete ?
	(A) Absence of oxygen in exhaust
	(B) Absence of nitrogen in exhaust
	(C) Absence of free carbon in exhaust
	(D) Absence of carbon monoxide in exhaust

23.	In a steam engine, the val-	ve rod is connected to an eccentric rod by mea	ns
	of:		
9	(A) cotter joint	(B) knuckle joint	
	(C) universal joint	(D) flange coupling	
24.	Crater wear occurs mainly	on the :	
II	(A) nose part, front relie	f face and side relief face of the cutting tool	
ħ	(B) cutting edge only		
	(C) front face only		
	(D) face of the cutting to	ol at a short distance from the cutting edge of	nly
25.	A reversible engine has id	eal thermal efficiency of 30%. When it is used	l as
	a refrigerating machine w	ith all other conditions unchanged, the coeffici	ient
	of performance will be:		
	(A) 3.33	(B) 3.00	
),	(C) 2.33	(D) 1.33	
26.	The Young's modulus of	elasticity of a material is 2.5 times its modulu	is of
	rigidity. The Poisson's ra	tio for the material will be :	
	(A) 0.25	(B) 0.33	
	(C) 0.50	(D) 0.75	9
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27.	The thermal efficiency	of the Carnot engine	is 0.5. If the e	ngine is operated
	as refrigerator, what is			
	(A) 0.5	(B)	1.0	
1	(C) 2.0	(D)	2.5	
28.	In involute gears, the	pressure angle is :		
	(A) dependent on size	of teeth		
	(B) dependent on size	e of gears		
	(C) always constant			
	(D) always variable			
29.	The rotor of a ship ro	tates in clockwise d	lirection when	viewed from stern
	and the ship takes a	left turn. The effect	of gyroscopic c	ouple acting on it
	will be:			
	(A) to raise the bow	and stern		
	(B) to lower the bow	and stern		
	(C) to raise the bow	and lower the ster	n	
	(D) to raise the ster	n and lower the bo	w	
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30.	The enthalpy of vaporization	n, at critical	point is:	10.00
	(A) maximum	(B)	minimum	
	(C) zero	(D)	none of these	
31.	A horizontal beam under be	nding has a r	naximum bending	stress of 100 M
	Pa and a maximum shear str	ress of 20 M I	Pa. What is the man	kimum principal
	stress in the beam ?			
	(A) 20	(B)	50	
	(C) $50 + \sqrt{2900}$	(D)	100	
32.	The colour of the flame of ha	lide torch, in o	case of leakage of F	reon refrigerant,
	will change to:			
	(A) bright green	(B)	yellow	-
	(C) red	(D)	orange .	
33.	The grinding of long, slende	er shafts or t	pars is usually don	e by:
	(A) infeed grinding			
	(B) through feed grinding			
	(C) end feed grinding		4.	
	(D) any one of these			
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34.	The permissible stress in a fillet weld is 100 N/mm ² . The fillet weld ha	s
	equal leg lengths of 15 mm each. The allowable shearing load on weldmen	t
塘	per cm length of the weld is :	
	(A) 22.5 kN (B) 15.0 kN	
is	(C) 10.6 kN (D) 7.5 kN	
35.	Which one of the following is the correct definition of critical ratio i	n
	scheduling ?	
	(A) Demand time/supply lead time	
16	(B) Supply lead time/demand time	
	(C) Demand time/manufacturing lead time	
	(D) Manufacturing lead time/demand time	
36.	High speed compression engines operate on :	
	(A) otto cycle	
5.5	(B) diesel cycle	
	(C) dual combustion cycle	
	(D) all of the above	
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37.	Usua	lly fins are provided to	increase the r	ate of heat trans	fer. But fins	s also
	act a	as insulation. Which o	ne of the fol	lowing non-dime	nsional nur	nbers
	decid	es this factor ?				
	(A)	Eckert number	(B)	Biot number		
	(C)	Fourier number	(D)	Peclet number		
38.	The	square root of the rati	o of inertia fo	orce to gravity for	rce is calle	d :
	(A)	Reynolds number	(B)	Froude number		
	(C)	Mach number	(D)	Euler number		v 10
39.	The	Klein's diagram is use	d when :			
į.	(A)	crank has uniform an	gular velocity			
	(B)	crank has non-uniform	n angular vel	ocity		
	(C)	crank has uniform an	gular accelera	ition		
	(D)	crank has non-uniform	n angular acc	eleration		
40.	The	rmodynamic work is th	e product of			
	(A)	Two intensive propert	ies			
	(B)	Two extensive proper	ties			
	(C)	An intensive property	and change	in an extensive	property	80
	(D)	An extensive propert	y and change	in an intensive	property	
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41.	If a block of material of lengt	h 25 cm, br	eadth 10 cm	and height
	5 cm undergoes a volumetric st	rain of 1/500	0, then chang	ge in volume
	will be:			
	(A) 0.50 cm ³	(B) 0.25	m ³	
	(C) 0.20 cm ³	(D) 0.75	em ³	
42.	The heat generated in metal co	utting can co	nveniently be	e determined
	by:			
	(A) Installing thermocouple on the	he job		
	(B) Installing thermocouple on the	he tool		
	(C) Calorimetric set up			
	(D) Using radiation pyrometer			
43.	In the multiple disc clutch, if the	re are 6 discr	on the drivi	ng shaft and
	5 discs on the driven shaft, then	the number of	of pairs of cor	ntact surfaces
	will be equal to:			
	(A) 11	(B) 12		
	(C) 22	(D) 10		
	(0) 22	(D) 10		100
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44.	A production line is said to b	be balanced when :	
١.	(A) There are equal number	of machines at each work	station
	(B) There are equal number	of operators at each work	station
	(C) The waiting time for ser	vice at each station is the	same
	(D) The operation time at ea	ach station is the same.	
45.	Morse test can be conducted	for:	
•	(A) petrol engines	(B) diesel engines	
	(C) multi-cylinder engines	(D) all of these	
46.	Fraction of radiative energy lea	aving one surface that strikes	s the other surface
	is called:		
	(A) Radiative flux		
	(B) Emissive power of the fi	irst surface	
	(C) View factor		
	(D) Re-radiation flux		
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47.	In order to measure the flow with a venturimeter, it is installed in :
	(A) horizontal line
	(B) inclined line with flow upward
	(C) inclined line with flow downward
	(D) any direction and in any location
48.	An air vessel is provided at the summit in a syphon to :
	(A) avoid interruption in the flow
	(B) increase discharge
	(C) increase velocity
	(D) maintain pressure difference
49.	Which one of the following modifications to a Rankine cycle would upgrade/
	enhance its efficiency so as to approach that of Carnot cycle ?
	(A) Incomplete expansion of steam
	(B) Reheating of steam
	(C) Regenerative feed heating by steam
	(D) Partial condensation of steam
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50.	Intercooling in multistage compressors is done:				
	(A)	to cool the air during compression			
	(B)	to cool the air at delivery			
	(C)	to enable compression in two stages			
	(D)	to minimize the work of compression			
51.	The	variance of the completion time for a project is the sum of variances			
	of:				
	(A)	All activity times			
	(B)	Non-critical activity times			
	(C)	Critical activity times			
	(D)	Activity times of first and last activities of the project			
52.	Hov	v can interference in involute gears be avoided?			
	(A)	Varying the centre distance by changing the pressure angle only			
	(B)	Using modified involute or composite system only			
	(C)	Increasing the addendum of small wheel and reducing it for the larger			
		wheel only			
	(D)	Any of the above			
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53.	The process of ch	anging the shape o	f gri	inding wheel as it b	ecomes v	vorn
	due to breaking a	way of the abrasive	e an	d bond, is called:	٠	
	(A) truing		(B)	dressing		
	(C) facing		(D)	clearing		T.
54.	The critical temporary	erature is the temperature	eratı	ure:		
	(A) below which	a gas does not obe	y ga	as law		
	(B) above which	a gas may explode	Y.			
	(C) below which	a gas is always lic	quefi	ed		
	(D) above which	a gas is never liqu	uefie	d		
55.	Which of the follo	owing governors is	used	l to drive a gramopl	none ?	
	(A) watt governo	or	(B)	porter governor		
	(C) Pickering go	vernor	(D)	Hartnell governor		
56.	In which one of the	he following processo	es is	there an increase in	entropy	with
	no degradation of	f energy ?				
	(A) Polytropic es	xpansion				1
	(B) Isothermal e	expansion				
	(C) Isochoric he	at addition				361
	(D) Isobaric hea	t addition				
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- 57. An open-coiled helical spring of mean diameter D, number of coils N and wire diameter d is subjected to an axial force P. The wire of the spring is subject to:
 (A) direct shear only
 - (B) combined shear and bending only
 - (C) combined shear, bending and twisting
 - (D) combined shear and twisting only
- 58. Whirling speed of shaft is the speed at which :
 - (A) shaft tends to vibrate in longitudinal direction
 - (B) torsional vibration occurs
 - (C) shaft tends to vibrate vigorously in transverse direction
 - (D) combination of transverse and longitudinal vibration occurs
- 59. The object of caulking in a riveted joint is to make the joint :
 - (A) free from corrosion
 - (B) stronger in tension
 - (C) free from stress
 - (D) leak proof

			(4)
60.	In a psychrometric chart, speci-	fic humidity lines are :	
	(A) vertical and uniformly spa	ce	
	(B) horizontal and uniformly	space	
	*1.1	******	
٠	(C) horizontal and non-uniform	nly space	
	(D) curved lines		
, 61.	Internal gears can be made by	(a)	
	(A) hobbing		
	(B) shaping with pinion cutter		
	(C) shaping with rack cutter		
	(D) milling	8	
62.	In a journal bearing P = avera	ge bearing pressure, Z =	absolute viscosity
	of the lubricant, N = rotati	onal speed of the jour	rnal. The bearing
	characteristic number is given	by:	
	(A) ZN/p	(B) p/ZN	
	(C) Z/pN	(D) N/Zp	
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63.	In	a stop-watch time stud	ly, the obser	ved time	was 0.16	6 minute; tl	ne
	perf	formance rating factor	was 125 o	n the 10	00 norma	l (percenta	ge
	scal	e). What is the standa	ard time in	minutes,	if 10% a	llowances a	re
	peri	mitted ?					
	(A)	0.180	(B)	0.200			
	(C)	0.220	(D)	0.240			
64.	The	stagnation pressure rise	e in a centrif	ugal comp	oressor tal	xes place :	12
	(A)	in the diffuser only					
	(B)	in the impeller only					
	(C)	in the diffuser and imp	peller			5	
	(D)	in the inlet guide vane	es only				
65.	In s	steam and other vapour	cycles, the pro	ocess of re	moving no	n-condensab	le
	is c	alled:		1/2			
	(A)	Scavenging process					
	(B)	Deaeration process					
9	(C)	Exhaust process					
	(D)	Condensation process					
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100	Manager and the confidence of the area of			
66.	The shear stress in t	urbulent flow is:		
	(A) Linearly proport	ional to the velocity gradier	nt	
	(B) Proportional to	the square of the velocity g	radient	
	(C) Dependent on the	ne mean velocity of flow		
	(D) Due to the exch	ange of energy between the	molecules	
67.	In a simple impulse t	curbine, the nozzle angle at	the entrance is 30°. What	t
	will be the blade-spe	ed ratio for maximum diagr	am efficiency ?	
grad of H	(A) 0.433	(B) 0.25		
÷.	(C) 0.5	(D) 0.75		
68.	For air standard Br	ayton cycle, increase in th	e maximum temperature	е
	of the cycle, while	keeping the pressure ratio	the same would resul	t
	in:			
	(A) Increase in air	standard efficiency		
	(B) Decrease in air	standard efficiency		
75. 17	(C) No change in a	ir standard efficiency		e i
	(D) Increase in the	efficiency but reduction in	network	
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69. M	Iultiple threads are used to secure :	
(A	A) low efficiency	
(H	3) high efficiency	
((c) high load lifting capacity	
(I	D) high mechanical advantage	
70. W	Thich of the following statements is wrong about ultrasonic machi	ning ?
(4	A) It is best suited for machining hard and brittle materials	
(1	3) It cuts materials at very slow speed	
((C) It removes large amount of materials	
α	It produces good surface finish	
71. D	Puring sensible cooling :	
(4	A) relative humidity remains constant	
(1	3) wet bulb temperature increases	
((C) specific humidity increases	
(1	D) partial pressure of vapour remains constant	15
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72.	Lame's theory is associated with:	
	(A) thin cylindrical shells	
	(B) thick cylindrical shells	
	(C) direct and bending stresses	
	(D) none of the above	
73.	Two rotors are mounted on a shaft. If the unbalanced force due to one rotor	
	is equal in magnitude to the unbalanced force due to the other rotor, but	
	positioned exactly 180" apart, then the system will be balanced:	
	(A) statically	
	(B) dynamically	
	(C) statically as well as dynamically	
Š.	(D) neither statically nor dynamically	
74.	The critical depth meter is used to measure :	
	(A) velocity of flow in an open channel	
	(B) depth of flow in an open channel	
	(C) depth of channel	
	(D) hydraulic jump	
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75.	The degree of reaction	of a turbine is the ratio of enthalpy drop in :
	(A) Moving blades to	enthalpy drop in the stage
	(B) Fixed blades to en	thalpy drop in the stage
	(C) Moving blades to	enthalpy drop in fixed blades
	(D) Fixed blades to en	thalpy drop in moving blades
76.	A gas turbine plant wo	king on Joule cycle produces 4000 kW of power. If
	its work ratio is 40%, v	that is the power consumed by the compressor?
	(A) 2000 kW	(B) 4000 kW
	(C) 6000 kW	(D) 8000 kW
77.	Deep groove ball bearing	gs are used for :
	(A) heavy thrust load	
	(B) small angular disp	acement of shafts
	(C) radial load at high	speed
	(D) combined thrust a	nd radial load at high speed
78.	For air conditioning the	operation theatre in a hospital, the percentage of
	outside air in the air s	applied is:
	(A) Zero	(B) 20
	(C) 50	(D) 100
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79.	The	slenderness ratio is the	ratio of	F :			
	(A)	area of column to leas	t radius	of gy	ration		
	(B)	length of column to le	ast radit	as of	gyration		
	(C)	least radius of gyration	n to area	a of c	olumn		
	(D)	least radius of gyration	n to leng	gth of	column		
80.	The	gas constant (R) are ed	qual to t	he :			
	(A)	sum of two specific he	ats				
	(B)	difference of two specif	fic heats				
	(C)	product of two specific	heats				
	(D)	ratio of two specific he	ats				
81.	Whi	ch lake is the source of	f Bhaga	river	of H.P. ?		
	(A)	Mantilai	8	(B)	Surajtal		
	(C)	Saketi		(D)	Kunt Bhayog		
82.	Whi	ich is the longest river	in H.P.	?			
	(A)	Ravi		(B)	Chenab		
	(C)	Sutlej	14	(D)	Yamuna	15	
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83.	In which district of H.P. i	s Gauri Devi	Ka Tibba pea	k ?	
	(A) Chamba	(B)	Kullu		
	(C) Kinnaur	(D)	Bilaspur		
84.	According to 2008 AD noti	fication which	of the followi	ng is not inclu	aded in
	the list of difficult and in	accessible area	s in H.P.?	275	
	(A) Sangrah (Sirmaur)	d			
	(B) Dodra Kawar (Shimla	a) -			
	(C) Chhota Banghal (Ka	ngra)			
	(D) Nirmand (Kullu)				
85.	At which place does the G	ovt. of H.P. pro	pose to set up	a mother sta	tion for
	CNG buses ?	2/11	- 8		
	(A) Baijnath (Kangra)				
	(B) Dharampur (Mandi)				
	(C) Haroli (Una)				V 1
	(D) Bhota (Hamirpur)				
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86.	Which occupational group	in H.P. thrives l	argely on offer	ings on the occasion
	of death rites of Hindus	?		
	(A) Bhat	(B)	Khatik	
	(C) Purohit	(D)	Acharaj	
87.	Which one of the following	ng projects is in	public sector	?
	(A) Thirot	(B)	Toss	
	(C) Sumez	(D)	Kurmi	9
88.	At which place in Kangra	a District of H.P.	a state of Ar	t Industrial Area is
	being created?			
	(A) Ranital	(B)	Dehra	
	(C) Harchakian	(D)	Kandrori	
89.	From which Rabi season	the H.P. Govt. h	as introduced	the Crop Insurance
	Scheme ?			
	(A) 1999-2000	(B)	2004-2005	
	(C) 2008-2009	(D)	2010-2011	
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90.	At which place in Sirmaur District of H.P. a Smart Grid Pilot is being								
	imple	emented by the H.P. State	Electricity	y Board ?					
	(A)	Sangrah	_ (B)	Kala Amb	\$17				
	(C)	Dadahu	(D)	None of the					
91.	Whic	h team did Indian Men's	Hockey t	eam defeat	at the Rio C	lympics			
	2016	? .							
	(A)	Canada	(B)	Germany					
	(C)	Argentina	(D)	Belgium		36			
92.	Who	is the Chairman of All I	arty Hurr	iyat Confere	nce ?				
S.	(A)	Mirwaij Umar Farooq							
	(B)	Syed Ali Shah Gilani							
	(C)	Yasin Malik	N 22						
	(D)	None of the above			7				
93.	Whe	ere did Sattriya dance orig	inate ?						
	(A)	Andhra Pradesh	(B)	Kerala					
	(C)	Asom	(D)	Odisha	100	. 5			
AP(ME)-2	017—A	29		1	' P.T.O.			

94.	What is the minimum number of states that must approve the Goods and						
	Services Tax (GST) Bill before it is sent to the President ?						
	(A)	14	(B)	15			
	(C)	16	(D)	18			
95.	With which of the following is Bezwada Wilson, the winner of Magsaysay						
	awa	rd, associated ?					
	(A)	Inclusiveness in cultur	e				
	(B)	Opposition to child lab	our				
9	(C)	Women liberation					
4	(D)	Safai Karmchari Andol	lan				
96.	Which country is called The Queen of Seas ?						
	(A)	Italy	(B)	Belgium			
	(C)	Britain	(D)	Canada			
97.	When did Islamic State gun-men kill nearly 129 people in Paris in terrorist						
	attack ?						
	(A)	October 13, 2015	(B)	November 13, 2015			
	(C)	December 13, 2015	(D)	January 13, 2016			
APO	ΛE)-20	017—A	30				

98	8.	Whi	ch country of the	world occupies	first position	on in 'Good Co	untry Index-
		2015	5' which seeks to	measure how	countries	contribute to	the global
		good	?				
		(A)	Norway		(B) Swede	en	
		(C)	Denmark		(D) None	of these	7 2 6
99	9.	Fron	n which country di	id Solar Impuls	se-2 begin	and conclude it	ts round the
		worl	d trip during 2015	5-16 ?			
		(A)	Saudi Arabia				
		(B)	United Arab Emi	rates		W	
		(C)	Oman			5 5 7	
		(D)	Kuwait			,	
10	00.	In w	hich country did S	oyuz capsule w	hich broug	ht back three a	stronauts of
		Brita	ain, Russia and th	e United State	s land on	June 18, 2016	?
		(A)	Kazakhstan	4	(B) Uzbel	tistan	
		(C)	Kyrgyzstan	1 14 1	D) Turkr	nenistan	
A	P(M	E)-20	017—A	31			P.T.O.