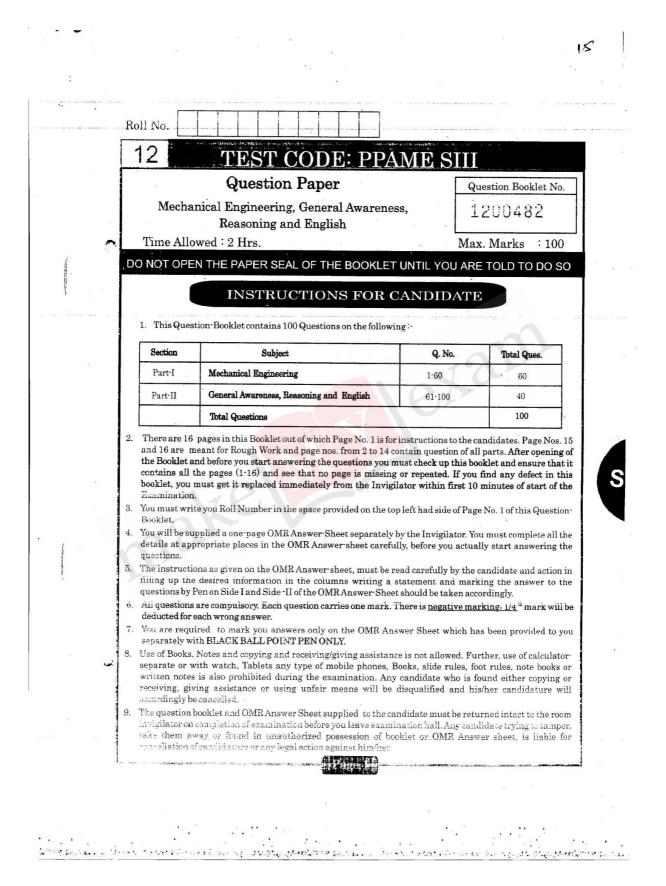
PSPCL Previous Paper AE (OT) MECHANICAL



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	Mechanical Engineering
	Q1) The main aim of compounding steam turbine is to :-
	a) Beduce steam consumption
	c) Reduce motor speed d) Reduce steam consumption d) Reduce turbine size
	Q2) The deposition of frost on evaporator tubes of an air conditioner will result in :-
	 a) Decrease in heat transfer b) Increase in heat transfer c) No change in heat transfer d) Increase in capacity of evaporator
	 Q3) Governing of steam turbines can be done by the following: - Nozzle control
	3) Providing additional value and passage The correct answer will be :-
	a) $1, 2 \text{ and } 3$ b) $1 \text{ and } 2 \text{ and } 3$
	c) 2 and 3 only d) 1 and 2 only 1 and 3 only
	Q4) During which of the following process does heat rejection take place in Carnot Vapour Cycle ?
. 1	9) Constant V.1
	c) Constant Tenne () Constant Pressure
	constant mitopy
1	Q5) Economizer is generally placed between: - a) Last superheater/mbacter.
- 1	 a) Last superheater/reheater and air preheater b) Air preheater and chimney
- 1	c) Electrostatic precipitators
	d) Induced draft fan and forced draft fan
	Q6) The wavelength of the radiation emitted by a body depends upon :-
	a) the nature of the surface c) the temperature of its surface b) the area of its surface
	c) the temperature of its surface d) all the above factors
	Q7) The work done during expansion of a gas is independent of
	a) Isothermally
	c) In both the above b) Adiabatically
L	d) In none of the above cases

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 Q8) A centrifugal pump was manufactured to couple directly to a 1 H.P. electric motor running at 1950 rpm delivering 50 liters pa minute against a total head of 20 m. It is desired to replace th pump. The head developed by pump is likely to be :- a) 41.4 m b) 29.6 m c) 20 m d) 9.5 m Q9) Air vessel is used in a reciprocating pump to obtain :- a) Reduction of suction heat b) Rise in delivery head c) Continuous supply water at uniform rate d) Increase in supply of water Q10) Hydraulic transmission through fluid coupling is suitable for :- a) Unsteady operation and increasing torque b) Unsteady operation and low starting torque d) Increasing torque and low starting load Q11) Agood refrigerant should have :- a) High latent heat of vaporization and low freezing point b) High operating pressure and low freezing point c) High specific volume and high latent heat of vaporization d) Low COP and low freezing point q12) Which of the following refrigerant has the maximum ozon
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d) Low COP and low freezing point
Q12) Which of the following refrigerant has the maximum ozon
depletion in the stratosphere?
a) Ammonia b) Carbon dioxide
c) Sulphur dioxide d) Fluorine
Q13) A thermostatic expansion valve in a refrigeration system :-
a) Ensures the evaporator completely filled with refrigerant of the load
b) Is suitable only for constant load system
c) Maintains different temperatures in evaporator in proportion t load
d) None of the above

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	Q14, a) b) c) d)	By pass factor for a cooling increases with increase in decreases with increase in remains unchanged with i may increase or decreas through it depending upon	velocity velocity ncrease e with	of air passing through it in velocity of air passing through it increase in velocity of air passing
	Q15) a) b)	During sensible cooling :- Relative humidity remains Wet bulb temperature incr		nt
	c) d)	Specific humidity increase Partial pressure of vapour	s	sconstant
9	Q16)	The Mach number for nitr and temperature in the u respectively will be:-	ogen flo ndisturi	owing at 195 m/s when the pressure bed flow at 690 kN/m abs and 93°C
	a)	0.25 b) 0.50	c)	0.66 d) 0.75
R E E	Q17)	The Mach number at inlet the diffuser would be :-	of gas t	urbine diffuser is 0.3. The shape of
	a) c)	Converging Converging – diverging	b) d)	Diverging Diverging – converging
*	Q18)	For adiabatic expansion w	ith frict	tion through a nozzle, the following
	a)	Entropy	b)	Static enthalpy
	c)	Stagnation enthalpy	d)	Stagnation pressure
	Q19)	The danger of breakage and	lvibrati	on is maximum :-
	a) c)	Below critical speed Above critical speed	b) d)	Near critical speed None of the above
	Q20) a)	fillers are added to plastics Improve flow	to:-	
	b) c)	Reduce brittleness		
	d)	Facilitate processibility Reduce cost		5
	!		Page 4	
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and the state of the state of the	transition of the state of the state of the	
s a	Q21) a) b) c) d)	In value engineering the term 'value' refers to : - Market value Relation between cost and efficiency Relation between function and cost Relation between productibility and cost
κ.	Q22) a) c)	Goodwill of an enterprise is termed as :- Liquid asset b) Volatile Fictitious asset d) Liability
e 140 8	Q23) a)	Bending moment M and torque T is applied on a solid circular shaft. If the maximum bending stress equals to maximum shear stress developed, then M is equal to :- T/2 b) T c) 2T d) $4T$
	Q24) a) c)	Which of the following plans guarantees minimum wage to a works and bonus based on fixed percentage of time saved :- Gantt Plan b) Halsey Plan Powan Plan d) Bedaux Plan
	Q25) a)	The number of slots in a 25 mm castle nut is :- 2 b) 4 c) 6 d) 8
	Q26) a) c)	Which key is preferred for the condition where a large amount of impact torque is to be transmitted in both directions of rotation :- Woodruff keyb)Feather key Tangent keyGib-head keyd)Tangent key
	Q27) a) c)	Quenching is not necessary when hardening is done by :-Case carburizingb)Flame hardeningNitridingd)Any of the above processes
	Q28) a) c)	The most preferred process for casting gas turbine blade is -Die mouldingb)Shell mouldingInvestment mouldingd)Sand casting
1	Q29) a) c)	Machine tool frame should have:-High rigidity to weight ratiob)Low hardnessd)High work hardness

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×	Q30) Addition of which of the following improves machining of copper ? a) Sulphur b) Vanadium c) Tin d) Zinc
	Q31) Low helix angle drills are preferred for drilling holes in :- a) Plastics b) Copper c) Cast steel d) Carbon steel
	Q32) What is the approximate value of Young's modulus of elasticity of cast
* * 1 k	a) 100-105 GPa b) 200-210 GPa c) 240-250 GPa d) None of these
e e	Q33) A mild steel bar 1m long, 100 mm in diameter is subjected to an axial tensile load, so that change in its length is 0.1 mm. If Poisson's ratio of mild steel is 0.3, what is the change in its diameter:-
	a) 1 micron c) 0.03 micron d) None of these
2	 Q34) A thin cylindrical shell is subjected to internal pressure, such that hoop strain developed in shell is 850 microstrain. If Young's modulus is 100 GPa and Poisson's ratio is 0.3, what is hoop stress developed in shell: a) 200 MPa b) 100 MPa c) 50 MPa d) None of these
	Q35) A column is fixed at one end and free at the other end, its Euler's Buckling load is 10 kN. If both the ends of column are fixed, what will be its Euler's Buckling load:
	a) 80 kN b) 40 kN c) 20 kN d) None of these
	 Q36) At a point on a plane there is normal stress + 100 MPa and a shear stress 'q', on another plane perpendicular to this plane there is normal stress + 20 MPa and a shear stress 'q'. If the maximum principal stress at the point is 110 MPa, what is maximum shear stress at the point :- a) 50 MPa b) 30 MPa c) 10 MPa d) None of these
	Q37) A thick cylindrical shell is subjected to internal pressure 'p', such that maximum hoop stress developed in shell is 100 MPa. If external radius
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	Q38)	The section diameter of			circula	ar with dia	meter	D. What is the
	a)	D/2	b)	D/3	c)	D/4	d)	None of these
, A:	Q39)	moment of	50 kN		ance o			ed to a clockwise d. What is shear
	a)	0 kN	b)	3 kN	c)	5 kN	d)	None of these
	Q40)			lical spring a nm. what is				ain energy while
	a)	50 N/mm		$10 \mathrm{N/mm}$		5 N/mm	d)	None of these
	Q41)			netration of l B of specime		ned steel b	all in s	pecimen is 0.140
	a)	70	b)	60	c)	50	d)	None of these
×	Q42) a)	How many 8	atoms b)	s are present 6	in HC c)	P crystal st	tructur d)	e:- None of these
	Q 43)		e perce	entage of nicl	kel in l	Nimonic 90	alloy (a creep resistant
	a)	alloy):- 25	b)	58	c)	76	d)	None of these
e	Q44) a) c)	By what pro carburizing cyaniding		maximum h	ardne	b) nit:	ed in a riding y of the	
r B			corhe	on percentag	inco			
	a) c)	0.022 wt % 6.67 wt %	, carba	ni percentag	e in ce	b) 0.8	wt% ne of th	ese
	Q46)	cantilever f	from b		point	of applicat		length of tooth as load, m = module
	a) c)	$6 t^2 / hm$ hm/ $6 t^2$	en Lev	vis ioriii iacu	or is gi	b) $t^2/$	6 hm ne of th	ese
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8	 Q47) For a helical gear, if θ is helix angle, and Z is number of teeth on pinion, then what is virtual number of teeth · a) Z/cosθ b) Z/cos²θ c) Z/cos³θ d) None of these
2 	 Q48) For a worm - worm wheel arrangement, number of start of threads on worm is 2, number of teeth on wheel is 48, diameter quotient is 10, and module of gear teeth is 5 mm, what is the designation of worm - wheel arrangement:- a) 5/48/10/2 b) 2/48/10/5. c) 2/5/10/48 d) None of these
	Q49) Surface hardness of a spur gear tooth is 250 BHN, what is its stress load factor.
	a)1.0b)0.8c)0.64d)None of theseQ50)What is the stress concentration factor for a reinforced butt weld :- a)2.0b)1.5c)1.2d)None of these
	 Q51) In a belt drive, maximum tension is 3 kN, mass per unit length is 0.2 kg, what should be the pitch line velocity: a) 31.6 m/s b) 61.2 m/s c) 70.7 m/s d) None of these
	 Q52) Mechanism used in a shaping machine is: - a closed four bar chain having four revolute pairs b) a closed four bar chain having two revolute pairs and two sliding pairs c) an inversion of a single slider crank chain d) None of these
2 (1) 1	 Q53) A flywheel of mass moment of inertia 9.8 kgm² fluctuates 30 rpm for a fluctuation in energy of 1934 Joules. What is the mean speed of flywheel in RPM? a) 600 b) 900 c) 968 d) None of these
4 ^ë	 a) 600 b) 900 c) 968 d) None of these Q54) Magnesium sheets can be easily welded by using:- a) tungsten inert gas welding b) metal inert gas welding c) electro slag welding d) none of these

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8	Q55 1)) In resistance welding, which is a correct statement : - heat energy is supplied and mechanical pressure is applied in making spot weld
	2)	if zinc coating is present in electrode it will erode and pit the surface, resulting in decrease in weld quality
	a) c)	only 1b)only 2both 1 and 2d)neither 1 nor 2
1	Q56)) Two streams of liquid metal which are not hot enough to fuse properly
	a) c)	result into a casting defect known as :- cold shut b) misrun scab d) none of these
	Q57)	Dew point temperature is the temperature at which condensation
	a) c)	begin, when it is cooled at constant :- volume enthalpy b) pressure d) none of these
	Q58)	An industrial heat pump operates between the temperatures of 27°C and -13°C, the rate of heat addition and rejection are 750 W and 1000 W respectively, COP of heat pump is:-
	a)	7.5 b) 4 c) 3 d) None of these
	Q59)	A 2 kW, 40 litres water heater is switched on for 20 minutes. The heat capacity of water is $4.2 \text{ kJ}/\text{KgK}$. Assuming that all electrical energy is converted into heat energy, what is the increase in temperature of water in °C:-
	a)	7.15 b) 14.3 c) 28.6 d) none of these
	Q60)	internal energy (U), pressure (p), temperature (T) and volume (V), which of the following statements is correct:-
	a) b) c)	it is applicable only for a reversible process it is also valid for any ideal gas it holds good for any process reversible or irreversible
,	(d)	none of these

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	GENERA	L KNOWLEDGE
	Q61) Sun Temple is situated at :-	C C C C C C C C C C C C C C C C C C C
	c) Kanyakumari	b) Vrindavan
		d) V and
	Q62) The first Railway line in India a) 1828	Was started
	c) 1853	b) 1825
		d) 1995
	Q63) Bhopal disaster was the result a) Collapsing of a dam	a) 1003
and the second of the second second	a) Collapsing of a dam	tof:-
	c) Plague epidemic	b) Great fire
		d) T
	(Q64) Which of the following coup	tries is not a member of the SAARC
	a) Bangladaal	tries is not a member of the SAARC
7	a) Bangladesh c) Pakistan	
1	a unistan	b) Afghanistan d) Nepal
f F	Q65) Mallika Sarabhaiin	with which of the following fields : - b) Classical Marci
· · · · ·	a) Social Service	with which of the following fill
1	c) Classical Dance	
	Q66) Who wrote the book "Discovery of a) Mahatma Gandhi	fladi-vo
	a) Mahatma Gandhi c) Jawahard Live	b) Dr Baiard, D
	oawanarlal Nehru	d) D K Najendra Prasad
	Q67) India's first satellite launching sta a) Chennai Thumb	d) R.K. Narayan
٤	D Chennai	ation is located at :-
с) Thumba	Anmedahad
	(CO) HE	
6	Which of the following is the small	ant in (
9	 Which of the following is the small Cuba Grenoila 	b) the world?
a, c)	UTENO119	b) Japan
a) c>		d) Vatican City State

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Q69) In India, Teacher's Day is celebrated on :- a) November 14 b) January 30 o) September 5 d) October 10 Q70) People from which state celebrate their harvest around Makar Sakranti:- a) Andhra Pradesh b) Kerala a) Complete the number series by choosing the correct alternative: Series 1, 2, 4, 7, 11, 16, a) 20 b) 21 c) 22 d) 24 Q72) The numbers in the following squares are filled on the basis of some rule or analog. Complete the blank square by choosing the correct number from the alternatives: y ? 4 Q72) The numbers in the following squares are filled on the basis of some rule or analog. Complete the blank square by choosing the correct number from the alternatives: y ? a) 2 b) 3 c) 66 d) 64 Q73) If in a code GATE is written as ICVG, how can RAT will be written in that code: b) QZS o) TCV d) SBU Q74 Doctor: Diagnosis :: Judge: b) Judgement c) Judgement a) Court b) QZS b) Chemistry				
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for RAT?		a) Physics	b) Che	
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		1 III III III III III III III III III I		d) 37

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Q77) Find the odd one out	· -
a) 13 b) 61	1 c) 97
Q78) If 'b' save that 1	C C 1177 -
related to 'b'?	other is the only daughter of 'a's' mother. How
	a a b mother. How
c) Maternal uncle	b) Father
(0.79) Soloot (1	d) Grandfather
a) Week	s different from the other three : -
c) Fortnight	b) Month
	d) Soci
Q80) Fill in the blank in squ	are:-
2 °	
	? 256 64
	8 32 2
a) 15	
a) 15 b) 52	c) 128 d) 512
1.0.	w 512
	ENGLISH
Directions $(Q81 - 85)$:	Read the passage given below and complete th vith the help of given options
Ranii web	Read the passage given below and complete th vith the help of given options.
weeks away Had have	vith the help of given options. It was Sunday. His examination was only two d have been studying. He had athen whether
hatting aver	no mood to study history or algebra. "I want to w up. Maths or history will be of no use to me." et fan. "You will need maths to calculate y." may become part of history one de."
s averages and you	may become part of history one de "
	sne said.
i i i i i i i i i i i i i i i i i i i	
c) late in the morning	b) as the sun rose
	d) when his mother called him

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2									eestin (Marin)e	
	Q82)	He woke up	atday	wn becau	1se					
-	a)	he wanted t				b)	hewa	anted	to pray	
*	c) ·	he had to go				- d)			to play crick	cet
	Q83)	The other th	ningo	n his mir	nd was					
, (Ø)	a)	one or two g	ames	ofcricke	t	b)	tostu	ıdy hi	story	1
	c)	to study alg							's love of cri	cket
~	Q84)	He did not v	vantte	o study h	istory be	cause.			•••	
181 18	a)	he loved to s								
	b)	he had no in								
	c)	he wanted t	o beco	meacri	cket playe	er				
	d)	his mother	wasa	cricket fa	an	40 74.				
		Even a cricl				to			0	
		calculate hi								
	b) c)	calculate th								
1	c) d)	calculate th become par			es in his l	11e				
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a)	, TTTTTTT		b)	loyal	c)			rebellions
Q92) REPLY			da i s a		4		rebeintes
a) .	answer		b)	ask	c)	inquire	d)	examine
	and the second second second second	•						
a)	sky		b)	village	c)	earth	d)	sea
a)	guide		b)	follow	c)	learn	d)	imbibe
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Q96)		Q 96 st <u>near</u>	- 100) ly the op	Out of the posite to	ne four a the give	lternative n word :	s choos	se the word
a)	serious	b)	silent	· c)	bored	l d)	sad	
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