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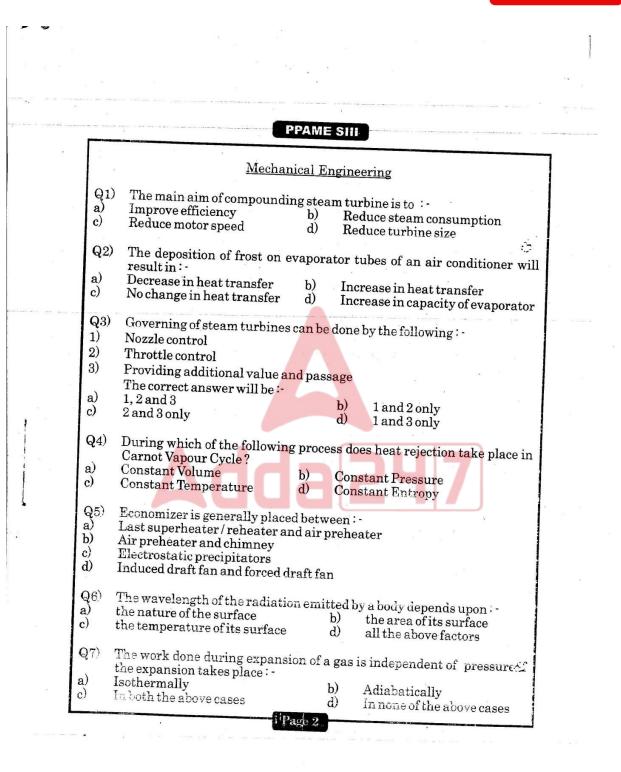






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PPAME SIII Q8) A centrifugal pump was manufactured to couple directly to a 15 H.P. electric motor running at 1950 rpm delivering 50 liters per minute against a total head of 20 m. It is desired to replace the pump. The head developed by pump is likely to be :a) 41.4 m b) 29.6 m c) 20 m d $9.5 \,\mathrm{m}$ 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 increasing speed c) Unsteady operation and low starting torque d) Increasing torque and low starting load Q11) A good 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 ozone depletion in the stratosphere? a) Ammonia b) Carbon dioxide c)Sulphur dioxide d) Fluorine Q13) Athermostatic 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 to load d) None of the above





PPAME SIII Q14) By pass factor for a cooling coil:a) increases with increase in velocity of air passing through it b) decreases with increase in velocity of air passing through it c) remains unchanged with increase in velocity of air passing through it may increase or decrease with increase in velocity of air passing d) through it depending upon the condition of air entering Q15) During sensible cooling:a) Relative humidity remains constant b) Wet bulb temperature increases c) Specific humidity increases d) Partial pressure of vapour remains constant Q16) The Mach number for nitrogen flowing at 195 m/s when the pressure and temperature in the undisturbed flow at 690 kN/m abs and 93°C respectively will be: a) 0.25b) 0.50c)0.66 d) 0.75 Q17) The Mach number at inlet of gas turbine diffuser is 0.3. The shape of the diffuser would be:a) Converging b) Diverging c) Converging - diverging d) Diverging-converging Q18) For adiabatic expansion with friction through a nozzle, the following remains constant : a) Entropy b) Static enthalpy **c**) Stagnation enthalpy d) Stagnation pressure Q19) The danger of breakage and vibration is maximum:-Below critical speed a) b) Near critical speed c) Above critical speed d) None of the above Q20) fillers are added to plastics to :a) Improve flow b) Reduce brittleness c) Facilitate processibility 3 d) Reduce cost Page 4



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PPAME SIII

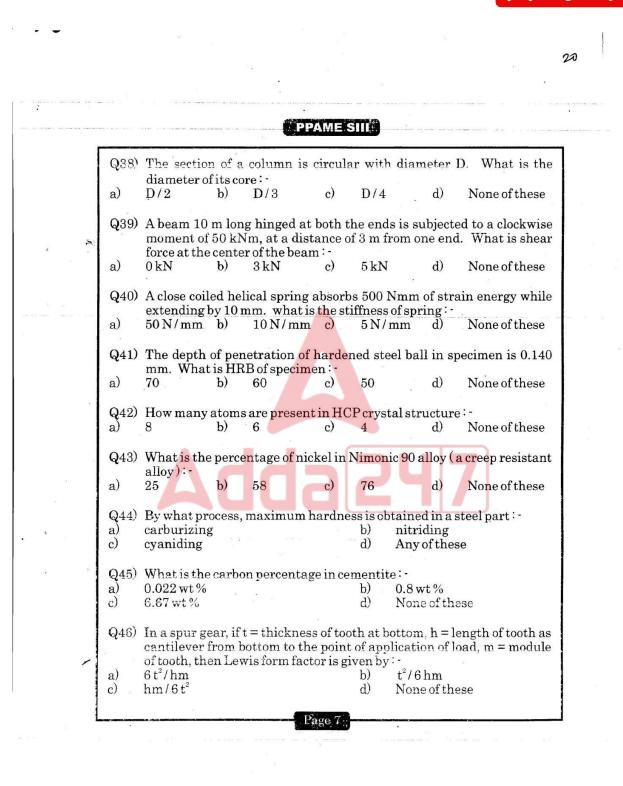
Q21) In value engineering the term 'value' refers to :-Market value a) b) Relation between cost and efficiency c) Relation between function and cost d) Relation between productibility and cost Q22) Goodwill of an enterprise is termed as :a) Liquid asset b) Volatile c) Fictitious asset d) · Liability Q23) 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 :a) T/2b) 2T4TT c)d) Q24) Which of the following plans guarantees minimum wage to a works and bonus based on fixed percentage of time saved :a) Gantt Plan Halsey Plan b) c) Powan Plan d) Bedaux Plan The number of slots in a 25 mm castle nut is :-Q25) a) 2 b) c) d) 4 6 Q26) Which key is preferred for the condition where a large amount of impact torque is to be transmitted in both directions of rotation :a) Woodruffkey b) Feather key c)Gib-head key d) Tangent key Q27) Quenching is not necessary when hardening is done by : -Flame hardening a) Case carburizing b) c) Nitriding d) Any of the above processes Q28) The most preferred process for casting gas turbine blade is -a) Die moulding b) Shell moulding c)Investment moulding d) Sand casting Q29) Machine tool frame should have:a) High rigidity to weight ratio b) Graphite in the form of nodules c)Low hardness d) High work hardness Page 5





PPAME SIII Q30) Addition of which of the following improves machining of copper? Zinc Tin d) c)Vanadium Sulphur b) a) Q31) Low helix angle drills are preferred for drilling holes in :-Carbon steel Cast steel d) c) Plastics b) Copper a) Q32) What is the approximate value of Young's modulus of elasticity of cast iron:-200-210 GPa b) 100-105 GPa a) None of these d) 240-250 GPa c) 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 :-0.3 micron b) a) 1 micron d) None of these c) 0.03 micron 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 :-50 MPa d) None of these 100 MPa c) 200 MPa b) a) 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: None of these 20 kN d) c) 80 kN b) $40 \,\mathrm{kN}$ a) 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 :d) None of these c)10 MPa 50 MPa b) 30 MPa a) 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 of shell is two times the internal radius, what is the magnitude of 'p':-Noneofthese 60 MPa 40 MPa d)100 MPa b) c)a) Page 6





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 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 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) 1.0 b) 0.8 c) 0.64 d) None of these Q50) What is the stress concentration factor for a reinforced butt weld:- a) 2.0 b) 1.5 c) 1.2 d) 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) a closed four bar chain having four revolute pairs and two sliding pairs c) an inversion of a single slider crank chain d) None of these Q53) Aflywheel 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 Q544 Magnesium sheets can be easily welded by using :- a) tungsten inert gas welding b) metal inert gas welding - c) electro slag welding b) metal inert gas welding - 			PPAME SIII									
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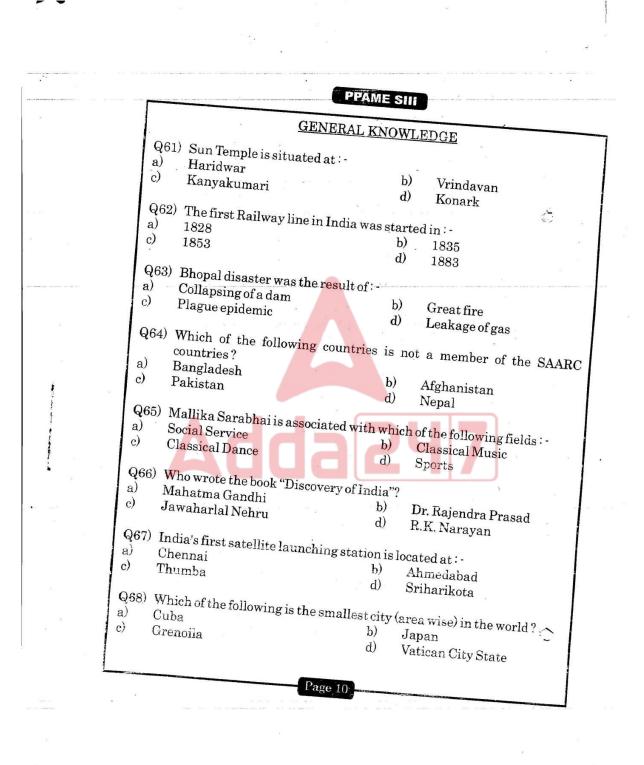


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PPAMESII Q55) In resistance welding, which is a correct statement :heat energy is supplied and mechanical pressure is applied in making 1) spot weld if zinc coating is present in electrode it will erode and pit the surface, 2)resulting in decrease in weld quality a) only 1 h) only 2 3 c) both 1 and 2d) neither 1 nor 2 Q56) Two streams of liquid metal which are not hot enough to fuse properly result into a casting defect known as : a) cold shut b) misrun c) scab d) none of these Q57) Dew point temperature is the temperature at which condensation begin, when it is cooled at constant :a) volume b) pressure c) enthalpy d) none of these An industrial heat pump operates between the temperatures of 27°C Q58) and -13°C, the rate of heat addition and rejection are 750 W and 1000 W respectively, COP of heat pump is: a 7.5b) 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 kJ / Kg K. Assuming that all electrical energy is converted into heat energy, what is the increase in temperature of water in °C:a) 7.15b) 14.3c)28.6d) none of these Q60) Considering the relationship TdS = dU + pdV, between entropy (S), internal energy (U), pressure (p), temperature (T) and volume (V), which of the following statements is correct : a) it is applicable only for a reversible process b) it is also valid for any ideal gas c)it holds good for any process reversible or irreversible d) none of these Page.

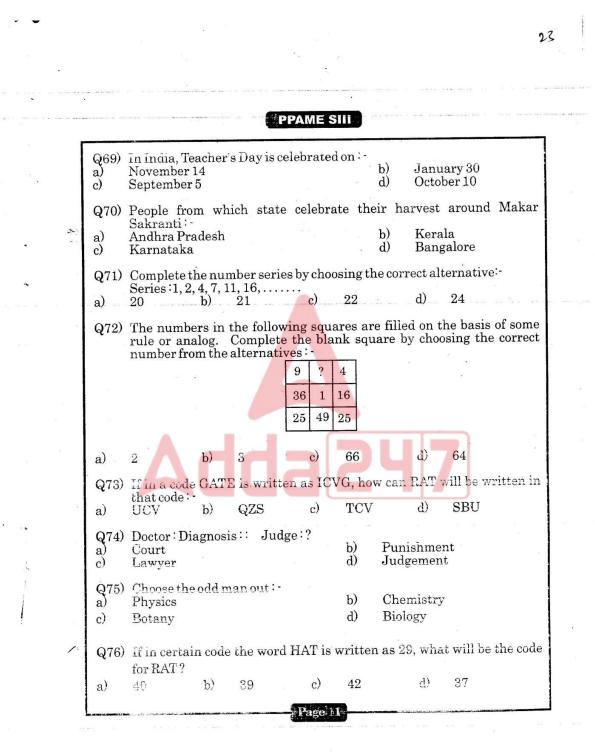
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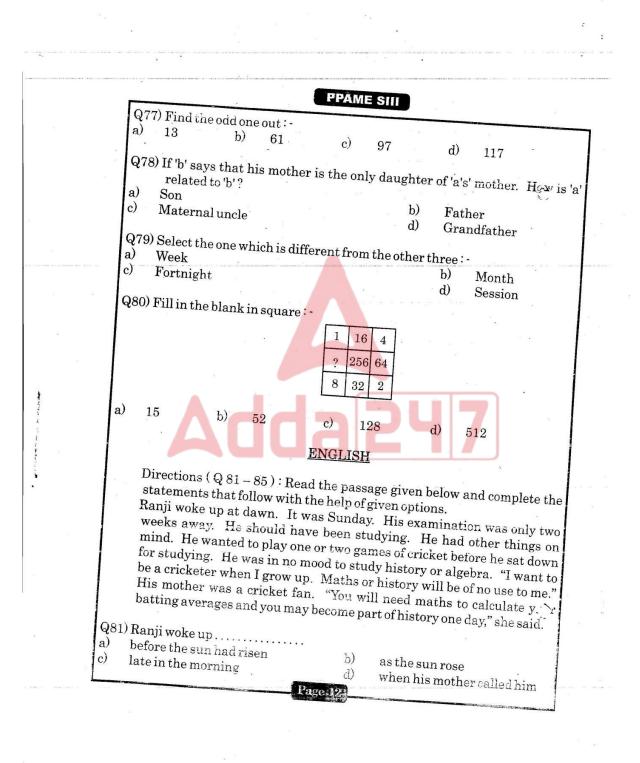


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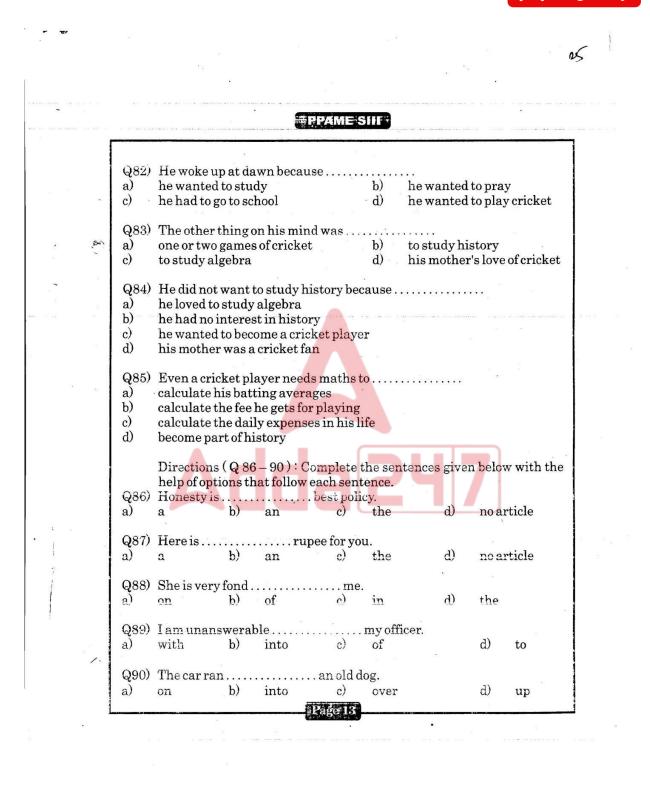
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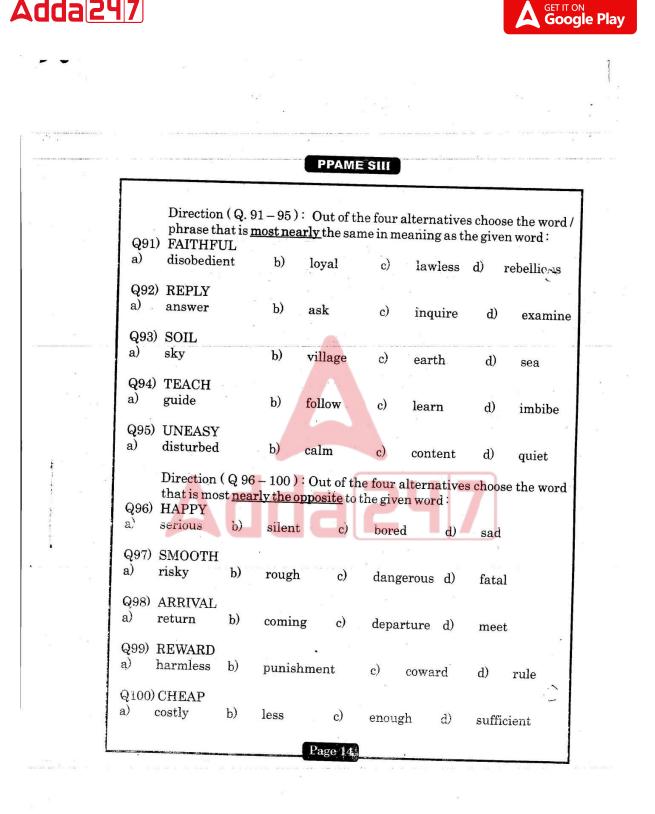
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