

DESIGN OF MACHINE ELEMENTS

Question No.	Question
1	In boiler plate riveting, the rivet head used usually are:
	a) Pan head
	b) Snap head
	c) Conical headd) Countersunk head
2	A journal bearing takes up loads to the axis of the shaft
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0	a) parallel b)perpendicular c)inclined d)tangential
3	Two mating gear have 70 & 30teeth. If their common module is 5mm
	per tooth, the centre distance between their axis is:
	a) 200mm b)250mm c)150mm d)100mm
4	If T ₁ & T ₂ are tensions in tight side and slack side of the belt
	respectively, then the initial tension to is equal to
	a) $(T_1 - T_2)/2$ b) $(T_1 + T_2)$ c) $(T_1 + T_2)/2$ d) $(T_1 - T_2)$
5	A key mage from cylindrical disc having segmental cross section is
	known as:
	a) Feather key
	b) Gib headed key
	c) Woodruff key
6	d) Flat saddle key Diameter of rivet for a plate thickness t is taken as:
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	a) 6√t b)6.05√t c)5.5√t d)7.05√t
7	In case of thick cylinder the ratio of diameter to wall thickness is less
	than or equal to:
	a) 20 b)30 c)40 d)50
8	Design of pulley key and shaft:
	a) All the three are designed for same
	b) Strength pulley my strongest
	 c) Key is made strongest d) Key is made weakest
9	 d) Key is made weakest In a multi v belt transmission is one of the belt is broken we should
J	change:
	a) All belt b) All weak belt
	c) Broken belt
	d) Adjacent belt



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10	Centrifugal tension in belt:
	a) increase neuror transmission
	 a) increase power transmission b) decrease power transmission
	c) does not affect the power transmission
	d) increase the certain limit
11	In oil less bearing :
	in onless bearing.
	a) oil film pressure is generated only by rotation
	b) Only supplying under pressure
	c) do not require oil
	d) greasing is required
12	Bearing characteristic number:
	a) ZN/P b)Z/PN c) P/ZN d) ZP/N
13	Kennedy keys are used for applications like:
	a) Provision kov
	a) Precision key
	b) light duty c) heavy duty
	d) all service
14	In a ball bearing which is not harder than the other part:
14	in a bail bearing which is not harder than the other part.
	a) inner race
	b) outer race
	c) ball
	d) all are equally hardened
15	Pivot and collars bearing are meant to carry:
	a) Vertical and axial loads respectively
	b) Axialand Vertical loads respectively
	c) Axial loads only
	d) Vertical loads only
16	In a riveted joint the number of row decreases as we proceed
	from innermost outermost row:
	a) Diamond
	b) Chain
	c) Zigzag
1	d) double



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17	In a welded joint the parent member are placed side by side :
	a) plug b) fillet c)TIG d) <mark>Butt</mark>
18	The most suitable theory of failure for ductile material is:
	a) The maximum normal stress theory
	b) Maximum distortion energy theory
	c) the maximum shear stress theory
	d) The Coulomb Mohr theory
19	A Cotter joint is used to connect two rods which are in:
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	a) tension only
	b) compression only
	c) shear only
	d) tension and compression
20	Preloading of bolts:
	a) Improves factor of safety
	b) Reduces factor of safety
	c) Prevents leakage
	d) Secure the part tightly