

Question No.	Question
1	The ratio of time for forward stroke to return stroke in a shaper is usually: a) 1:2 b) 3:2 c) 2:3 d) 4:3
2	The number of pair p , and number of link l in a kinematic chain is given by the equation: a) $l=p-4$ b) $l=2p-1$ c) $l=2p-2$ d) $l=2p-4$
3	In radial cams the follower motion with respect to the axis of the cam is: a) parallel b) inclined c) perpendicular d) any direction
4	Toothed gears constituted: a) turning pair b) lower pair c) sliding pair d) higher pair
5	Cross Head and guide form: a) lower pair b) higher pair c) sliding pair d) rolling pair
6	The term effort of governor refers to: a) centrifugal force of balls b) useful power developed c) force acting on sleeves for given percentage change in speed d) all the above
7	Hunting is observed in a) DC series motor b) Governor c) shunt motor d) induction motor
8	Pantograph has all the: a) sliding pair b) turning pair c) circle pair d) none of these
9	Klein's construction is helpful in determining: a) acceleration of various parts b) velocity of various parts c) displacement of various parts d) none of these
10	Coriolis's component is considered if: a) The point considered move on a part that rotates b) The point considered move along a path that is stationary c) The point considered move along a circular path

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	d) The point considered moves in any curvilinear path
11	Joint two elements that permits relative motion which is completely constrained or successfully constrained is called: a) mechanism b) machine c) structure d) kinematics pair
12	The two rotor connected by a shaft when subjected to torsional vibration we have: a)2 node b)3node c) one note d)no node
13	The height of Watt governor is proportional to: a) N(speed in rpm) b) N^2 c) $1/N^2$ d) $1/N$
14	Which of the following is an example of spherical pair? a) Ball and socket joint b) Bolts and nuts c) Ball bearing and roller bearing d) None of the above
15	Whitworth quick return mechanism is obtained by inversion of: a) Slider crank mechanism b) Kinematics chain c) 5 link mechanism d) Roller cam mechanism
16	A lead screw of a light with nut forms a----- pair: a) Turning b) Screw c) Rolling d) Sliding
17	Kinematics chain is known as mechanism when----- of links is fixed: a) One b) Two c) Both a and b d) None of the above
18	V belt are usually used for----- drivers a) Short b) Long c) Both short and long d) None
19	A simple mechanism has: a) Onelink b) 2 link c) 3link d) Four link
20	In pure rolling motion: a) Only liner point contact

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	<p>b) Only line contact c) Only point contact d) Only Line or point contact with no deformation</p>
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