

TOM

OBJECTIVE QUESTION

1. Which of the following disciplines provides study of inertia force arising from the combined effect of mass and motion of parts?
 - a) TOM
 - b) APPLIED MECHANICS
 - c) MECHANISM
 - d) KINETIC
 - e) KINEMATIC
2. Which of the following disciplines provides study of relative motion between the parts of machine
 - a) TOM
 - b) APPLIED MECHANICS
 - c) MECHANISM
 - d) KINETIC
 - e) KINEMATIC
3. Which of the following disciplines provides study of relative motion between the parts of machine and the force acting on the parts
 - a) TOM
 - b) APPLIED MECHANICS
 - c) MECHANISM
 - d) KINETIC
 - e) KINEMATIC
4. The type of pair formed by two elements are so connected one is so constrained to turn or revolve about a fixed axis of another elements is known as
 - a) TURNING
 - b) SLIDING
 - c) ROLLING
 - d) SPHERICAL
 - e) LOWER
5. Which of the following is lower pair
 - a) BALL AND SOCKET
 - b) PISTON AND CYLINDER
 - c) CAM AND FOLLOWER
 - d) BOTH a and b
 - e) BELT DRIVE
6. If two moving elements have surface contact in motion such pair is known as
 - a) SLIDING
 - b) ROLLING
 - c) SURFACE
 - d) LOWERPAIR
 - e) HIGHER PAIR
7. Which of the following is a higher pair
 - a) SHAFT REVOLVING IN BEARING
 - b) STRIGHT LINE MOTION MECHANISM
 - c) AUTOMOBILE STEERING GEAR

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- d) ALL OF THE ABOVE
e) NON OF THE ABOVE
8. Pulley in belt drive acts as
- TURNING
 - SLIDING
 - ROLLING
 - SURFACE
 - CYLINDER
9. Example of rolling pair
- BOLT AND NUT
 - LEAD SCREW OF LATHE
 - BALL AND SOCKET JOINT
 - BALL BEARING AND ROLLER BEARING
 - ALL OF THE ABOVE
10. The purpose of link is to
- GUIDE OTHER LINK
 - ACT AS SUPPORT
 - ALL OF THE ABOVE
 - NON OF THE ABOVE
 - TRANSMIT MOTION
11. Universal joint is an example of
- SLIDING
 - ROLLING
 - LOWERPAIR
 - HIGHER PAIR
 - TURNING
12. If l is the number of link in a mechanism then number of possible inversion is equal to
- $L+1$
 - $L-1$
 - L
 - $L+2$
 - $L-2$
13. A simple mechanism has
- 1 LINK
 - 2 LINK
 - 3 LINK
 - 4 LINK
 - 5 LINK
14. Automobile steering gear is an example of
- SLIDING
 - TURNING
 - ROTARY

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d) LOWER

e) HIGHER

15. Which of the following has sliding motion

a) CRANK

b) CONNECTING

c) CRANK PIN

d) CROSS HEAD

e) CROSS HEAD GUIDE

16. A mechanism is an assembled of

a) 2 LINK

b) 3 LINK

c) 4 OR MORE THAN 4 LINK

d) ALL OF THE ABOVE

e) NON OF THE ABOVE

17. Number of link in pantograph mechanism is equal to

a) 2

b) 3

c) 4

d) 5

e) 6

18. There is a relation between number of joint ("J") and number of links("L")

a) $L=3/2 (J+2)$

b) $L=1/3(J+2)$

c) $L=2/3(J+2)$

d) $L=3/2 (J+1)$

e) $L=2/3 (J+3)$

19. Te relation between the number of links ("L") and pair("P")

a) $P=2L-4$

b) $P=2L+4$

c) $P=2L+2$

d) $P=2L-2$

e) $P=L-4$

20. Chain is locked

a) $LHS > RHS$

b) $LHS \geq RHS$

c) $LHS < RHS$

d) $LHS = RHS$

e) NON OF THE ABOVE

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GST - DIPLOMA