

UNIT 6 – Engineering Mechanism & their applications in domestic appliances.

1. Pump is mechanical devices which is converting the mechanical energy into hydraulic energy.
A) True
B) False
2. Which pump flow rate is continuous and smooth?
A) Reciprocating pump
B) Centrifugal pump
C) All of the above
D) None of the above
3. Which of the following is not the main part form of centrifugal pump?
A) Impeller
B) Casing
C) Suction pipe
D) Delivery pipe
E) None of the above
4. Which pump work is complicated and with much noise.
A) Centrifugal pump
B) Reciprocating pump
C) None of the above
D) All of the above
5. A device or machine providing air at high pressure is called as
A) Pump
B) Air compressor
C) Blower
D) Fan
E) None of the above
6. Which of the following is application for compressor?
A) Household refrigerator
B) Split AC unit
C) Water cooler
D) All of the above
7. Which of the following is not used application for pump?
A) Hydraulic jacks
B) Kerosene pump
C) Hand operated pump
D) Refrigerator
E) None of the above
8. The compressor which is motor driven, squeeze the refrigerant, raise the temperature of gas and pressure as well so that it exists the compressor as a hot and high-pressure gas.
A) True
B) False
9. Reciprocating pump is suitable for high capacities and low heads.
A) True
B) False
10. The hydraulic machines which convert mechanical energy into hydraulic energy are called as.....
A) Fan
B) Compressor
C) Pump
D) Fan
11. What is application for the pump
A) Split AC unit
B) Washing machine
C) Water filter/ purifier unit
D) Vacuum cleaner
12. A machine which is used to produce large volume of gas with a moderate increase in pressure is called as.....
A) Fan
B) Pump
C) Blower
D) Compressor
13. A machine that is used to create flow within a fluid, such as air is known as.....
A) Compressor
B) Fan
C) Blower
D) Pump
E) None of the above
14. It works on the principle of configuration which is the fictitious force that pull out from the center on

- the body while moving in the circular path.
- A) Vacuum cleaner
B) Washing machine
C) Refrigerator
D) Centrifugal pump
15. What is an example for blower?
A) Kitchen chimney
B) Reciprocating pump
C) Exhaust fan
D) Dryer
16. Which is not an example for fan.
A) Motor fan
B) Dryer
C) None of the above
D) All of the above
17. If current carrying conductor is placed in a magnetic field it experiences a force and start to rotate.
A) Refrigerator
B) Kitchen chimney
C) Motor fan
D) Centrifugal pump
18. It works on the principle of pressure difference the two locations.
A) Vacuum cleaner
B) Motor fan
C) Split AC
D) Washing machine
E) None of the above
19. It is used to remove organic and inorganic substances like smoke, soot, water vapor, oil fumes and bits of food.
A) Refrigerator
B) Motor fan
C) All of the above
D) Kitchen chimney
20. It is a ventilation device which draws out the polluted air from the room and replaces it with fresh air.
A) Exhaust fan
B) Motor fan
C) Washing machine
D) None of the above
21. The branch of science that deals with the process of reducing and maintaining the temperature of that space or material below the temperature of surroundings.
A) Refrigeration
B) Motor fan
C) Refrigerator
D) All of above
22. Vapour compression refrigeration system is most commonly used method of refrigeration for refrigerators, air - conditioners.
A) True
B) False
23. An elastic body or elastic machine element which deflects under the action of the load and recovers its original shape when load is removed.
A) Damper
B) Spring
C) Gear
D) Belt drive
24. Springs are used in door closure and door locks.
A) True
B) False
25. The power from the engine to the rear axle of an automobile is transmitted by means of
A) Worm and worm wheel
B) Spur gear
C) Bevel gear
D) Hooke's joint
E) All of the above
26. The arrangement is called bevel gearing, when two are connected by gears
A) Intersecting and coplanar shaft
B) non-intersecting and non-coplanar shafts
C) parallel and coplanar shaft
D) parallel and non-coplanar shaft

27. When two non-intersecting non-coplanar shafts are connected by gears, the arrangement is known as helical gear
- A) Right
 - B) Wrong
28. An imaginary circle which by pure rolling action, gives the same motion as the actual gear, is called
- A) Addendum circle
 - B) Dedendum circle
 - C) Pitch circle
 - D) Clearance circle
29. Size of the gear is usually specified by
- A) Pressure circle
 - B) Circular pitch
 - C) Diametral circle
 - D) Pitch circle diameter
30. The gear train usually employed in clocks is a
- A) Simple gear train
 - B) Reverted gear train
 - C) Sun and planet gear
 - D) Differential gear
31. In order to have a good grip on the pulley the V-belt should touch the bottom of the groove in the pulley
- A) True
 - B) False
32. V-belts are usually used for
- A) Long drives
 - B) Short drives
 - C) Long and short drives
 - D) None of the above
33. When two pulleys are connected by means of cross belt drive, then both the pulleys will rotate in directions.
- A) Same
 - B) Opposite
34. When two pulleys are connected by means of open belt drive, then both the pulleys will rotate direction.
- A) Same
 - B) Opposite
35. Which one is positive drive?
- A) Flat belt drive
 - B) V belt drive
 - C) Chain drive
 - D) None of the above
36. Which of the following is not the component of chain drive.
- A) Chain
 - B) Sprocket
 - C) Gear
 - D) All of the above
37. High torque at the driven shaft the size of the driven sprocket.
- A) Equal to the driving sprocket
 - B) Less than the driving sprocket
 - C) More than the driving sprocket
 - D) None of the above
38. What is the role of the sprocket in chain drive to transmit.
- A) Motion
 - B) Power
 - C) Velocity
 - D) Force
39. What is the role of the chain in chain drive to transmit
- A) Motion
 - B) Power
 - C) Velocity
 - D) Force
40. What is the purpose of the valve
- A) To control leakage
 - B) To control power loss
 - C) To control flow
 - D) To control motion
41. Which one is not the application of valve
- A) Water tap
 - B) Flushing of toilet
 - C) Kitchen
 - D) Door latch
42. Where the levers are pivoted at point is known as
- A) fulcrum
 - B) Hinged support
 - C) Fixed support

- D) Rollers
43. Ratio of load to effort is called as
- A) Mechanical Advantage
 - B) Leverage
 - C) Efficiency
 - D) All of the above
44. Ratio of effort arm to load arm is called as
- A) Mechanical Advantage
 - B) Leverage
 - C) Efficiency
 - D) All of the above
45. Efficiency in terms of power is the ratio of output power to input power
- A) False
 - B) True
46. What is mean by specification
- A) Detailed description of requirement
 - B) Dimensions
 - C) Material
 - D) All of the above
47. In electric heater energy conversion is
- A) Electric to heat
 - B) Solar to heat
 - C) Hydraulic to heat
 - D) Pressure to heat
48. In solar water heater energy conversion is
- A) Solar to hydraulic
 - B) Solar to heat
 - C) Solar to wind
 - D) Solar to vibration
49. What is the speed ratio
- A) Speed of driver shaft to driven shaft
 - B) Speed of driven shaft to driver shaft
 - C) Velocity of driver shaft to driven shaft
 - D) Speed of driven shaft to driver shaft
50. Gears are used to transmit
- A) Motion
 - B) Power
- C) Motion and power
D) None of the above

Question no	answer
1	A
2	B
3	E
4	B
5	B
6	D
7	D
8	A
9	B
10	C
11	C
12	C
13	B
14	B
15	A
16	C
17	C
18	A
19	D
20	A
21	A
22	A
23	B
24	A
25	C

Question no	answer
26	A
27	B
28	C
29	D
30	B
31	B
32	B
33	B
34	B
35	C
36	C
37	C
38	A
39	D
40	C
41	D
42	A
43	A
44	B
45	B
46	D
47	A
48	B
49	A
50	C