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## 61 TOP Hydraulic Machines ­ Mechanical Engineering Multiple choice Questions and Answers List

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1. Reciprocating pumps are no more to be seen in industrial applications (in comparison to centrifugal pumps) because of



1. high initial and maintenance cost
2. lower discharge
3. lower speed of operation
4. necessity of air vessel
5. all of the above. Ans: a
6. In a centrifugal pump casing, the flow of water leaving the impeller, is
7. rectilinear flow
8. radial flow
9. free vortex motion
10. forced vortex
11. none of the above. Ans: c
12. Head developed by a centrifugal pump depends on
13. impeller diameter
14. speed
15. fluid density
16. type of casing
17. (a) and (b) above. Ans: e
18. For starting an axial flow pump, its delivery valve should be
19. closed
20. open
21. depends on starting condition and flow desired
22. could be either open or closed
23. partly open and partly closed. Ans: b
24. The efficiency of a centrifugal pump is maximum when its blades are

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1. straight
2. bent forward
3. bent backward
4. bent forward first and then backward
5. bent backward first and then forward. Ans: c
6. In a centrifugal pump casing, the flow of water leaving the
7. radial
8. radial
9. centrifugal
10. rectilinear
11. vortex. Ans: e
12. Centrifugal pump is started with its delivery valve
13. kept fully closed
14. kept fully open
15. irrespective of any position
16. kept 50% open
17. none of the above. Ans: a
18. Axial flow pump is started with its delivery valve
19. kept fully closed
20. kept fully open
21. irrespective of any position
22. kept 50% open
23. none of the above. Ans: b
24. When a piping system is made up primarily of vertical lift and very little pipe friction, the pump characteristics should be
25. horizontal
26. nearly horizontal
27. steep
28. first rise and then fall
29. none of the above. Ans: c
30. One horsepower is equal to
31. 102 watts
32. 75 watts
33. 550 watts
34. 735 watts
35. 33000 watts. Ans: d
36. Multistage centrifugal pumps are used to obtain
37. high discharge
38. high head
39. pumping of viscous fluids
40. high head and high discharge
41. high efficiency. Ans: b
42. When a piping system is made up primarily of friction head and very little of vertical lift, then pump characteristics should be
43. horizontal
44. nearly horizontal
45. steep
46. first rise and then fall
47. none of the above. Ans: b
48. In a single casing, multistage pump running at constant speed, the capacity rating is to be slightly lowered. It can be done by
49. designing new impeller
50. trimming the impeller size to the required size by machining
51. not possible
52. some other alterations in the impeller
53. none of the above. Ans: b
54. If a pump is handling water and is discharging a certain flow Q at a constant total dynamic head requiring a definite B.H.P., the same pump when handling a liquid of specific gravity 0.75 and viscosity nearly same as of water would discharge

(a) same quantity of liquid

(b) 0.75 Q (c) Q/0.75

1. 1.5 Q
2. none of the above.

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Ans: a

1. The horse power required in above case will be

(a) same

(b) 0.75 B.H.P.

(c) B.H.P./0.75

(d) 1.5 B.H.P.

(e) none of the above. Ans: b

1. Low specific speed of a pump implies it is
2. centrifugal pump
3. mixed flow pump
4. axial flow pump
5. any one of the above
6. none of the above. Ans: a
7. The optimum value of vane exit angle for a centrifugal pump impeller is (a) 10­15°

(b) 20­25°

(c) 30­40°

(d) 50­60°

(e) 80­90°.

Ans: b

1. In a centrifugal pump, the liquid enters the pump
2. at the top
3. at the bottom
4. at the center
5. from sides
6. none of the above. Ans: c
7. For small discharge at high pressure, following pump is preferred
8. centrifugal
9. axial flow
10. mixed flow
11. propeller
12. reciprocating. Ans: e
13. In centrifugal pumps, maximum efficiency is obtained when the blades are
14. straight
15. bent forward
16. bent backward
17. radial
18. given aerofoil section. Ans: c
19. Motion of a liquid in a volute casing of a centrifugal pump is an example of
20. rotational flow
21. radial
22. forced spiral vortex flow
23. forced cylindrical vortex flow
24. spiral vortex flow. Ans: e
25. For very high discharge at low pressure such as for flood control and irrigation applications, following type of pump is preferred
26. centrifugal
27. axial flow
28. reciprocating
29. mixed flow
30. none of the above. Ans: b
31. Medium specific speed of a pump implies it is
32. centrifugal pump
33. mixed flow pump
34. axial flow pump
35. any one of the above
36. none of the above. Ans: b
37. High specific speed of a pump implies it is
38. centrifugal pump
39. mixed flow pump
40. axial flow pump
41. any one of the above
42. none of the above.

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Ans: c

1. Indicator diagram of a reciprocating pump is a graph between
2. flow vs swept volume
3. pressure in cylinder vs swept volume
4. flow vs speed
5. pressure vs speed
6. swept volume vs speed. Ans: b
7. Low specific speed of turbine implies it is
8. propeller turbine
9. Francis turbine
10. impulse turbine
11. any one of the above
12. none of the above. Ans: c
13. Any change in load is adjusted by adjusting following parameter on turbine
14. net head
15. absolute velocity
16. blade velocity
17. flow
18. relative velocity of flow at inlet. Ans: d
19. Runaway speed of a hydraulic turbine is
20. full load speed
21. the speed at which turbine runner will be damaged
22. the speed if the turbine runner is allowed to revolve freely without load and with the wicket gates wide open
23. the speed corresponding to maximum overload permissible
24. none of the above. Ans: c
25. The maximum number of jets generally employed in impulse turbine without jet interference is
26. 4
27. 6
28. 8
29. 12

(e) 16. Ans: b

1. Medium specific speea of turbine implies it is
2. propeller turbine
3. Francis turbine
4. impulse turbine
5. any one of the above
6. none of the above. Ans: b
7. High specific speed of turbine implies it is
8. propeller turbine
9. Francis turbine
10. impulse turbine
11. any one of the above
12. none of the above. Ans: a
13. The specific speed of turbine is defined as the speed of a unit
14. of such a size that it delivers unit dis­charge at unit head
15. of such a size that it delivers unit dis­charge at unit power
16. of such a size that it requires unit power per unit head
17. of such a size that it produces unit horse power with unit head
18. none of the above. Ans: d
19. Puck up the wrong statement about centrifugal pump
20. discharge a diameter
21. head a speed2
22. head a diameter
23. Power a speed3
24. none of the above is wrong. Ans: a
25. A turbine pump is basically a centrifugal pump equipped additionally with
26. adjustable blades
27. backward curved blades
28. vaned diffusion casing
29. inlet guide blades
30. totally submerged operation facility. Ans: c

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1. Casting of a centrifugal pump is designed so as to minimize
2. friction loss
3. cavitation
4. static head
5. loss of kinetic energy
6. starting time. Ans: d
7. In reaction turbine, draft tube is used
8. to transport water downstream without eddies
9. to convert the kinetic energy to flow energy by a gradual expansion of the flow cross­section
10. for safety of turbine
11. to increase flow rate
12. none of the above. Ans: b
13. Guide angle as per the aerofoil theory of Kaplan turbine blade design is defined as the angle between
14. lift and resultant force
15. drag and resultant force
16. lift and tangential force
17. lift and drag
18. resultant force and tangential force. Ans: a
19. Francis turbine is best suited for
20. medium head application from 24 to 180 m
21. low head installation up to 30 m
22. high head installation above 180 m
23. all types of heads
24. none of the above. Ans: a
25. The flow rate in gear pump
26. increases with increase in pressure
27. decreases with increase in pressure
28. more or less remains constant with in­crease in pressure
29. unpredictable
30. none of the above. Ans: c
31. Impulse turbine is generally fitted
32. at the level of tail race
33. little above the tail race
34. slightly below the tail race
35. about 2.5 m above the tail race to avoid cavitation
36. about 2.5 m below the tail race to avoid cavitation. Ans: b
37. Francis, Kaplan and propeller turbines fall under the category of
38. Impulse turbines
39. Reaction turbines
40. Axial flow turbines
41. Mixed flow turbines
42. Reaction­cum­impulse turbines. Ans: b
43. Reaction turbines are used for
44. low head
45. high head
46. high head and low discharge
47. high head and high discharge
48. low head and high discharge. Ans: e
49. The discharge through a reaction turbine with increase in unit speed
50. increases
51. decreases
52. remains unaffected
53. first increases and then decreases
54. first decreases and then increases. Ans: b
55. The angle of taper on draft tube is
56. greater than 15°
57. greater than 8°
58. greater than 5°
59. less than 8°
60. less than 3°. Ans: d
61. Specific speed for reaction turbines ranges from

(a) 0 to 4.5

(b) 10 to 100

(c) 80 to 200

(d) 250 to 300

(e) none of the above. Ans: b

1. In axial flow fans and turbines, fluid enters and leaves as follows
2. radially, axially
3. axially, radially
4. axially, axially
5. radially, radially
6. combination of axial and radial. Ans: c
7. Which place in hydraulic turbine is most susceptible for cavitation
8. inlet of draft rube
9. blade inlet
10. guide blade
11. penstock
12. draft tube exit. Ans: a
13. Air vessels in reciprocating pump are used to
14. smoothen flow
15. reduce acceleration to minimum
16. increase pump efficiency
17. save pump from cavitation
18. increase pump head. Ans: b
19. Saving of work done and power by fitting an air vessel to single acting reciprocating pump is of the order of

|  |  |
| --- | --- |
| (a) | 39.2% |
| (b) | 49.2% |
| (c) | 68.8% |
| (d) | 84.8% |
| (e) | 91.6%. |
| Ans: d |  |

1. Saving of work done and power by fitting an air vessel to double acting reciprocating pump is of the order of

|  |  |
| --- | --- |
| (a) | 39.2% |
| (b) | 49.2% |
| (c) | 68.8% |
| (d) | 84.8% |
| (e) | 91.6%. |
| Ans: a |  |

1. According to fan laws, for fans having constant wheel diameter, the air or gas capacity varies
2. directly as fan speed
3. square of fan speed
4. cube of fan speed
5. square root of fan speed
6. none of the above. Ans: a
7. According to fan laws, for fans having constant wheel diameter, the pressure varies
8. directly as fan speed
9. square of fan speed
10. cube of fan speed
11. square root of fan speed
12. none of the above. Ans: b
13. According to fan laws, for the fans having constant wheel diameters, the power demand varies
14. directly as fan speed
15. square of fan speed
16. cube of fan speed
17. square root of fan speed
18. none of the above. Ans: c
19. According to fan laws, at constant speed and capacity, the pressure and power vary
20. directly as the air or gas density
21. inversely as square root of density
22. inversely as density
23. as square of density
24. as square root of density. Ans: a
25. According to fan laws, at constant pressure, the speed capacity and power vary
26. directly as the air or gas density
27. inversely as square root of density
28. inversely as density
29. as square of density
30. as square root of density. Ans: b
31. According to fan laws, at constant weight of air or gas, the speed, capacity and pressure vary
32. directly as the air or gas density
33. inversely as square root of density
34. inversely as density
35. as square of density
36. as square root of density. Ans: c
37. Pressure intensifier increases the pressure in proportion to
38. ratio of diameters
39. square of ratio of diameters
40. inverse ratio of diameters
41. square of inverse ratio of diameters
42. fourth power of ratio of diameters. Ans: b
43. A hydraulic accumulator normally consists of
44. two cylinders, two rams and a storage device
45. a cylinder and a ram
46. two co­axial rams and two cylinders
47. a cylinder, a piston, storage tank and control valve
48. special type of pump with storage device and a pressure regulator. Ans: b
49. A hydraulic intensifier normally consists of
50. two cylinders, two rams and a storage device
51. a cylinder and a ram
52. two co­axial rams and two cylinders
53. a cylinder, a piston, storage tank and control valve
54. special type of pump with storage device and a pressure regulator. Ans: c
55. Hydraulic accumulator is used for
56. accumulating oil
57. supplying large quantities of oil for very short duration
58. generally high pressures to operate hydraulic machines
59. supplying energy when main supply fails
60. accumulating hydraulic energy. Ans: d
61. Maximum impulse will be developed in hydraulic ram when
62. waste valve closes suddenly
63. supply pipe is long
64. supply pipe is short
65. ram chamber is large
66. supply pipe has critical diameter,

Ans: a

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