Quiz 20

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1. A volute type pump:

a. is a positive displacement pump
b. has a progressively expanding spiral casing
c. reduces the velocity in the discharge nozzle
d. is more costly than diffuser pumps
e. is a regenerative type pump

2. Cavitation of a pump refers to, when the:

a. pump is filled with air
b. pump is filled with vapor
c. oil ring is damaged
d. suction valve is open
e. pump is steam driven

3. Centrifugal pumps convert rotating mechanical energy into kinetic energy then:

a. discharge the kinetic energy
b. back to mechanical energy
c. absorb the energy
d. into potential energy as pressure
e. into centrifugal force

4. Centrifugal pumps do not develop good suction lift because:

a. atmospheric pressure is usually too low
b. the pumped medium relative density is too high
c. their internal component clearances are too high
d. the speed is too low
e. they favor pressure rather than volume

5. It is generally accurate to say that:

a. 9.8 kPa pressure results from every meter of water depth or height
b. a water height or depth of 10.34 meters results in 1 kPa
c. 1 kPa will result from a water head of 9.8 meters
d. 10.21 kPa will result from 1 meter of static water head
e. atmospheric pressure has no bearing on static water head

Quiz 20 Answers:

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1 = b, 2 = b, 3 = d, 4 = c, 5 = a