

Quiz 1

(1) continuum hypothesis is not employed in the study of

- a. Solid mechanics
- b. Fluid mechanics
- c. Gas dynamics
- d. Molecular dynamic

(2) The following can be considered a rigid body :

- a. A 300mm diameter and 1m long axial rod of mild steel subjected to 1N force.
- b. water
- c. Air
- d. An elastic rubber band

(3) The following of Newton's three laws is valid in a non-inertial frame of reference :

- a. First law
- b. Second law
- c. Third law
- d. None of these.

(4) If the masses of the two particle and distance between them is doubled, the force of gravitational attraction will

- a. double
- b. remain same
- c. halve
- d. become one fourth

(5) For complete equilibrium of the body

- a. body should be at rest
- b. body should rotate at a constant angular speed
- c. the resultant force acting on the body, must be zero.
- d. the resultant force and moment acting on the body must be zero.