



Name & ID No: _____

Choose the best answer out of given choices [10 Marks]

1. Which type of bearing(s) provides a bearing surface for forces acting along axis to the shaft?
 - a. Thrust bearing
 - b. Journal bearing
 - c. Linear bearing
 - d. None of the above
2. Hydrostatic bearing enters Hydrodynamic state when the journal is
 - a. Stationery
 - b. Rotating
 - c. Both a. and b.
 - d. None of the above
3. What is the shear stress in fluid per unit velocity gradient called as?
 - a. Absolute viscosity
 - b. Dynamic viscosity
 - c. Both a. and b.
 - d. None of the above
4. A cylindrical roller bearing is subjected to radial force of 4500 N and application factor 1.3. What is the equivalent dynamic load acting on bearing if it has 90% reliability with desired life of 10000 hrs?
 - a. 3461.53 N
 - b. 5000 N
 - c. 5850 N
 - d. Insufficient data
5. The lubrication in which load of bearing is carried solely by a film of fluid and there is no contact between the two bearings surface is called
 - a. Full film condition
 - b. Boundary condition
 - c. Dry condition
 - d. None of the above
6. The lubrication in which load of bearing is carried partly by a film of fluid and partly by direct surface contact is called
 - a. Full film condition
 - b. Boundary condition
 - c. Dry condition
 - d. None of the above
7. When the load of bearing is carried by direct surface to surface contact is called
 - a. Full film condition
 - b. Boundary condition
 - c. Dry condition
 - d. None of the above
8. Hydrostatic bearing usually use ____ as lubricant
 - a. Oil
 - b. Grease
 - c. Nothing
 - d. Any of the above



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9. Hydrostatic bearing enters Hydrodynamic state when the journal is
 - a. Stationery
 - b. Rotating
 - c. Both *a* and *b*.
 - d. None of the above

10. Which of the following bearings carry thrust load in one direction?
 - a. Spherical roller thrust bearings
 - b. Taper roller bearings
 - c. Both a. and b.
 - d. None of the above

11. Which of the following elements is not used as a roller in roller bearings?
 - a. Cylindrical
 - b. Taper
 - c. Spherical
 - d. None of the above

12. Load acting on bearing in its plane of rotation is called as _____
 - a. axial load
 - b. radial load
 - c. thrust load
 - d. none of the above