

- 1. Unlike other roller bearings, the rolling elements of a cylindrical roller bearing have point contact with the raceway surface..**
 - a) Correct
 - b) Incorrect

- 2. Due to their ability to support high loads, cylindrical roller bearings are often used in gearboxes.**
 - a) Correct
 - b) Incorrect

- 3. Which components are specific to cylindrical roller bearings?**
 - a) Cylindrical rolling elements
 - b) Groove
 - c) Seal

- 4. What are the characteristics of cylindrical roller bearings?**
 - a) With the same installation space, they can support higher radial loads than ball and tapered roller bearings
 - b) They can all be used as floating bearings
 - c) Full complement cylindrical roller bearings have a plastic cage
 - d) They have very high limiting speeds compared to other roller bearings
 - e) They are mainly designed to absorb radial loads
 - f) They can be used as floating bearings

- 5. What are the disadvantages of cylindrical roller bearings compared to ball bearings?**
 - a) Lower speed limits
 - b) Less temperature resistant
 - c) You need more installation space
 - d) They have a low load rating

- 6. Due to the direct contact between the individual rolling elements, it is particularly important for full complement cylindrical roller bearings that there is sufficient and suitable lubricant in the bearing.**
 - a) Correct
 - b) Incorrect

- 7. With which letter does the designation of an NTN cylindrical roller bearing begin?**
 - a) Z
 - b) E
 - c) N
 - d) Q

EXERCISES

The cylindrical roller bearing

- 8. What are the characteristics of an NUP type cylindrical roller bearing?**
- a) Two lips on the outer ring, one lip on the inner ring
 - b) A detachable collar ring on the side of the inner ring with no rib
 - c) They resemble the NJ design
 - d) Rollers and cage can be separated from the inner ring
- 9. What distinguishes NTN's Ultage series from conventional rolling bearings?**
- a) Larger rolling elements
 - b) Higher coefficient of friction
 - c) Longer service life
 - d) Higher permissible misalignment due to an optimised roller profile
- 10. Can cylindrical roller bearings be used in double row and four row arrangements?**
- a) No, only double row
 - b) Yes, double row and four row
 - c) No, neither two-row nor four-row
 - d) No, only four-row