

ITI Quiz - 04-Mar-2026

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Q. ID: ITISKILL8118K1

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 43

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1. What is the load taken by taper roller bearing?

- A) Thrust load B) Radial and axial load
C) Axial and radial load D) Radial load

Answer: C) Axial and radial load

2. Which is the bearing used in differential and wheel of a heavy vehicles?

- A) Needle bearing B) Roller bearing
C) Taper roller bearing D) Ball bearing

Answer: C) Taper roller bearing

3. What is the property of a bearing helps to with stand metal to metal contact?

- A) Thermal conductivity B) Fatigue strength
C) Embeddability D) Surface action

Answer: D) Surface action

4. Which is transferring energy for the piston to crankshaft?

- A) Cam shaft B) Connecting rod
C) Gudgeon pin D) King pin

Answer: B) Connecting rod

5. What is the property of bearing helps to absorb dirt and metal particles?

- A) Embedability B) Surface action
C) Thermal conductivity D) Conformability

Answer: A) Embedability

6. What is the material of cylinder block?

- A) Brass B) Bronze
C) Zinc alloy D) Cast iron

Answer: D) Cast iron

7. Which is the most preferred use of taper roller bearings?

- A) Gear boxes B) Differential and wheel hub
C) Fly wheel and water pump D) Connecting rods

Answer: B) Differential and wheel hub

8. Which measuring instrument used to check the fly wheel face out?

- A) Dial indicator B) Feeler gauge
C) Compression gauge D) Outside micrometer

Answer: A) Dial indicator

9. Where is the compression ring is fitted in the piston?

- A) Compression ring between oil ring and piston pin
B) Compression ring above the oil ring in the piston
C) Compression ring bottom of the piston skirt
D) Compression ring between piston pin and bottom of skirt

Answer: B) Compression ring above the oil ring in the piston

10. Which is the bearing used in water pump?

- A) Ball bearing B) Roller bearing
C) Taper roller bearing D) Needle bearing

Answer: A) Ball bearing

11. Which gauge used to measure the cylinder bore weariness?

- A) Compression gauge B) Dial gauge
C) Vacuum gauge D) Depth gauge

Answer: B) Dial gauge

12. Which tool is used to measure the diameter of the crank shaft main journal?

- A) Master ring gauge B) Three point internal micrometer
C) Outside micrometer D) Inside micrometer

Answer: C) Outside micrometer

13. Which is the most preferred use of bush bearings?

- A) Oil pumps B) Crank shaft
C) Fly wheel D) Connecting rods

Answer: C) Fly wheel

14. Which is connected with piston through piston pin?

- A) Connecting rod B) Cam shaft
C) Gudgeon pin D) Rocker arm

Answer: A) Connecting rod

15. When it is required to coincide the mark with timing gears?

- A) During assembling oil pump B) During assembling water pump
C) During assembling cam shaft D) During assembling radiator

Answer: C) During assembling cam shaft

16. What is the reason for corrosion of bearing?

- A) Over heated
- B) Over loaded
- C) Water mixed with lubricant
- D) Less clearance

Answer: C) Water mixed with lubricant

17. What is the type of hardening done on crank shaft?

- A) Induction hardening
- B) Case hardening
- C) Curve hardening
- D) Surface hardening

Answer: A) Induction hardening

18. What is the purpose of the fly wheel timing mark?

- A) To coincide the gears
- B) To set the valve clearance
- C) To set the F.I.P timing
- D) To set the engine timing

Answer: D) To set the engine timing

19. Which tool is used to remove the piston ring?

- A) Drift punch
- B) 'C' clamp
- C) Ring expander
- D) Circlip plier

Answer: C) Ring expander

20. What is the name the portion below the piston boss?

- A) Ring section of the piston
- B) Crown of the piston
- C) Land of the piston
- D) Skirt of the piston

Answer: D) Skirt of the piston

21. Which is the key element in converting reciprocating motion in to rotary motion?

- A) Gudgeon pin
- B) Cam shaft
- C) King pin
- D) Connecting rod

Answer: D) Connecting rod

22. Which part is connect the piston with crank pin?

- A) Connecting rod
- B) Cam Shaft
- C) Push rod
- D) Crank Shaft

Answer: A) Connecting rod

23. Which is the load taken by the roller bearing?

- A) Axial load
- B) Radial and axial load
- C) Radial load
- D) Thrust load

Answer: C) Radial load

24. Which tool used to remove the crank shaft pully?

- A) Ring spanner
- B) Double and spanner
- C) Puller
- D) Pipe wrench

Answer: C) Puller

25. What is the material used to produce crank shaft?

- A) Wrought iron
- B) Cast iron

- C) High speed steel
- D) Chromium vanadium nickel steel

Answer: D) Chromium vanadium nickel steel

26. Which tool is required to remove the valves?

- A) Box spanner
- B) Torque wrench
- C) Valve spring lifter
- D) Scraper

Answer: C) Valve spring lifter

27. Which is the most preferred use of roller bearings?

- A) Differential
- B) Connecting rods
- C) Fly wheel
- D) Gear boxes

Answer: D) Gear boxes

28. Where the fly wheel is fitted in the engine?

- A) Crank shaft
- B) Rocker arm shaft
- C) Primary shaft
- D) Cam shaft

Answer: A) Crank shaft

29. What is the speed ratio cam shaft to crank shaft?

- A) Triple
- B) Equal
- C) Half
- D) Double

Answer: C) Half

30. Which instrument is used to check the vacuum of the cylinder?

- A) Vacuum gauge
- B) Wire gauge
- C) Compression gauge
- D) Dial gauge

Answer: A) Vacuum gauge

31. What is the material of piston pins?

- A) Bronze
- B) Nickel chromium steel
- C) HSS
- D) Cast iron

Answer: B) Nickel chromium steel

32. Which instrument is used to check the tappet clearance?

- A) Feeler gauge
- B) Wire gauge
- C) Screw pitch gauge
- D) Telescopic gauge

Answer: A) Feeler gauge

33. What type of bearing fitted in the connecting rod big end?

- A) Shell bearing
- B) Ball bearing
- C) Needle bearing
- D) Taper roller bearing

Answer: A) Shell bearing

34. What is the cause of excessive loading?

- A) Bearing spread
- B) Bearing struck
- C) Fatigue failure
- D) Bearing crush

Answer: C) Fatigue failure

35. What is the property allows a bearing to with stand impact load for a reasonable time?

- A) Fatigue strength
- B) Toughness
- C) Tensile strength
- D) Hardness

Answer: A) Fatigue strength

36. What is ovality of a crank shaft?

- A) Difference in dia measured from top to bottom of a crank shaft outer dia
- B) Difference in dia measured only at bottom
- C) Difference in dia measured thrust to non thrust across dia
- D) Difference in dia measured only at top

Answer: C) Difference in dia measured thrust to non thrust across dia

37. What is the material for cam shaft?

- A) Forged alloy steel
- B) Copper alloy
- C) Zinc alloy
- D) Aluminium alloy

Answer: A) Forged alloy steel

38. What is the effect of taper and ovality of a bore?

- A) False valve timing
- B) Miss firing
- C) Compression loss
- D) Difficult starting

Answer: C) Compression loss

39. Which is the bearing used in gear boxes?

- A) Ball bearing
- B) Needle bearing
- C) Roller bearing
- D) Taper roller bearing

Answer: A) Ball bearing

40. Which part connect the piston with connecting rod?

- A) Spilt pin
- B) Piston pin
- C) Crank pin
- D) Cotter pin

Answer: B) Piston pin

41. What is the purpose of the timing chain?

- A) To connect crank or cam shaft gear
- B) To connect alternator
- C) To connect A/C compressor
- D) To connect water pump pulley

Answer: A) To connect crank or cam shaft gear

42. What is the cause for uneven wear of bearings?

- A) Bend twist
- B) No lubrication
- C) Excessive lubrication
- D) Over heat

Answer: A) Bend twist

43. What is ovality of a bore?

- A) Difference in dia measured only at bottom
- B) Difference in dia thrust to non thrust side of cylinder
- C) Difference in dia measured top to bottom
- D) Difference in dia measured only at top

Answer: B) Difference in dia thrust to non thrust side of cylinder