

ITI Quiz - 04-Mar-2026

09:34 PM

Q. ID: ITISKILL8118K1

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 43

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Student Name: _____ Roll No: _____

1. Which is the bearing used in water pump?
A) Roller bearing B) Ball bearing
C) Needle bearing D) Taper roller bearing
2. Which tool is required to remove the valves?
A) Valve spring lifter B) Scraper
C) Box spanner D) Torque wrench
3. Which is the key element in converting reciprocating motion in to rotary motion?
A) King pin B) Connecting rod
C) Cam shaft D) Gudgeon pin
4. Where the fly wheel is fitted in the engine?
A) Rocker arm shaft B) Crank shaft
C) Cam shaft D) Primary shaft
5. What type of bearing fitted in the connecting rod big end?
A) Taper roller bearing B) Ball bearing
C) Needle bearing D) Shell bearing
6. Which is connected with piston through piston pin?
A) Cam shaft B) Gudgeon pin
C) Rocker arm D) Connecting rod
7. Which part connect the piston with connecting rod?
A) Spilt pin B) Crank pin
C) Cotter pin D) Piston pin
8. What is the property of bearing helps to absorb dirt and metal particles?
A) Thermal conductivity B) Surface action
C) Embedability D) Conformability
9. What is the reason for corrosion of bearing?
A) Water mixed with lubricant B) Over heated
C) Over loaded D) Less clearance
10. What is the speed ratio cam shaft to crank shaft?
A) Half B) Triple
C) Double D) Equal
11. Which is the most preferred use of bush bearings?
A) Oil pumps B) Connecting rods
C) Fly wheel D) Crank shaft
12. What is the name the portion below the piston boss?
A) Land of the piston B) Crown of the piston
C) Skirt of the piston D) Ring section of the piston
13. Which is the bearing used in differential and wheel of a heavy vehicles?
A) Roller bearing B) Needle bearing
C) Ball bearing D) Taper roller bearing
14. What is the material for cam shaft?
A) Forged alloy steel B) Aluminium alloy
C) Copper alloy D) Zinc alloy
15. Which part is connect the piston with crank pin?
A) Push rod B) Crank Shaft
C) Connecting rod D) Cam Shaft
16. Which instrument is used to check the tappet clearance?
A) Feeler gauge B) Wire gauge
C) Telescopic gauge D) Screw pitch gauge
17. What is the cause for uneven wear of bearings?
A) Over heat B) Excessive lubrication
C) Bend twist D) No lubrication
18. Where is the compression ring is fitted in the piston?
A) Compression ring above the oil ring in the piston B) Compression ring between piston pin and bottom of skirt
C) Compression ring between oil ring and piston pin D) Compression ring bottom of the piston skirt

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

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

20. What is the cause of excessive loading?

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

21. What is ovality of a crank shaft?

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

22. What is ovality of a bore?

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

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

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

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

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

25. Which is the bearing used in gear boxes?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) High speed steel
- B) Wrought iron
- C) Cast iron
- D) Chromium vanadium nickel steel

36. What is the material of piston pins?

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

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

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

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

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

39. What is the material of cylinder block?

- A) Brass
- B) Cast iron

C) Zinc alloy

D) Bronze

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

A) Compression gauge

B) Dial gauge

C) Vacuum gauge

D) Depth gauge

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

A) Compression loss

B) False valve timing

C) Miss firing

D) Difficult starting

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

A) Curve hardening

B) Induction hardening

C) Surface hardening

D) Case hardening

43. What is the purpose of the timing chain?

A) To connect alternator

B) To connect water pump pulley

C) To connect A/C compressor

D) To connect crank or cam shaft gear