

ITI Quiz - 30-Mar-2026

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Q. ID: ITISKILL0839X6

March 2026

Question Paper

Duration: 50 Mins

Total Marks: 43

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Student Name: _____ Roll No: _____

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

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

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

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

3. What is the reason for corrosion of bearing?

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

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

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

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

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

6. Which is the bearing used in gear boxes?

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

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

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

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

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

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

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

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

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

11. Which tool is required to remove the valves?

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

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

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

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

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

14. What is the purpose of the timing chain?

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

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

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

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

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

17. Which is the bearing used in water pump?

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

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

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

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

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

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

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

21. What is the material of piston pins?

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

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

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

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

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

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

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

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

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

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

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

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

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

28. What is ovality of a bore?

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

29. What is the cause of excessive loading?

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

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

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

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

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

32. 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

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

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

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

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

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

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

36. Which part connect the piston with connecting rod?

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

37. Which is connected with pison through piston pin?

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

38. What is the material for cam shaft?

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

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

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

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

A) Connecting rods

B) Oil pumps

C) Ball bearing

D) Roller bearing

C) Crank shaft

D) Fly wheel

41. What is the material of cylinder block?

A) Cast iron

B) Bronze

C) Brass

D) Zinc alloy

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

A) Taper roller bearing

B) Needle bearing

43. What is ovality of a crank shaft?

A) Difference in dia measured only at bottom

B) Difference in dia measured thrust to non thrust across dia

C) Difference in dia measured from top to bottom of a crank shaft outer dia

D) Difference in dia measured only at top