

ITI Quiz - 05-Mar-2026

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Q. ID: ITISKILL46173I

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 43

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1. 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

2. What is ovality of a crank shaft?

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

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

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

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

Answer: C) Bend twist

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

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

Answer: D) Surface action

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

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

Answer: D) During assembling cam shaft

6. What is ovality of a bore?

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

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

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

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

Answer: A) Outside micrometer

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

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

Answer: D) Vacuum gauge

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

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

Answer: C) Connecting rod

10. What is the material of cylinder block?

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

Answer: B) Cast iron

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

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

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

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

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

Answer: B) Half

13. What is the cause of excessive loading?

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

Answer: D) Fatigue failure

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

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

Answer: C) Shell bearing

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

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

Answer: A) Connecting rod

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

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

Answer: C) Connecting rod

17. What is the material of piston pins?

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

Answer: C) Nickel chromium steel

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

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

Answer: D) Axial and radial load

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

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

Answer: D) Dial indicator

20. Which is the bearing used in water pump?

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

Answer: B) Ball bearing

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

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

Answer: D) Differential and wheel hub

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

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

Answer: A) Skirt of the piston

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

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

Answer: C) Puller

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

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

Answer: A) Ring expander

25. What is the reason for corrosion of bearing?

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

Answer: C) Water mixed with lubricant

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

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

Answer: B) Compression loss

27. What is the purpose of the timing chain?

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

Answer: D) To connect crank or cam shaft gear

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

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

Answer: B) Fatigue strength

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

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

Answer: B) Induction hardening

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

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

Answer: C) Gear boxes

31. Which part connect the piston with connecting rod?

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

Answer: D) Piston pin

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

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

Answer: D) Crank shaft

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

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

Answer: C) Chromium vanadium nickel steel

34. Which is the bearing used in gear boxes?

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

Answer: B) Ball bearing

35. Which tool is required to remove the valves?

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

Answer: A) Valve spring lifter

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

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

Answer: D) Dial gauge

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

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

Answer: A) Radial load

38. What is the material for cam shaft?

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

Answer: B) Forged alloy steel

39. Which is connected with piston through piston pin?

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

Answer: B) Connecting rod

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

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

Answer: B) Taper roller bearing

41. 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

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

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

Answer: D) Fly wheel

43. 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
