

ITI Quiz - 05-Mar-2026

09:16 PM

Q. ID: ITISKILL5363YL

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 43

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

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

Answer: C) Connecting rod

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

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

Answer: C) To set the engine timing

3. What is the material of piston pins?

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

Answer: D) Nickel chromium steel

4. What is the material of cylinder block?

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

Answer: B) Cast iron

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

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

Answer: C) Differential and wheel hub

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

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

Answer: D) Compression loss

7. What is ovality of a crank shaft?

- A) Difference in dia measured only at bottom
- B) Difference in dia measured from top to bottom of a crank shaft outer dia
- 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

8. 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

Answer: B) During assembling cam shaft

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

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

Answer: D) Induction hardening

10. 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

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

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

Answer: B) Dial indicator

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

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

Answer: C) Puller

13. 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

14. Which is the bearing used in water pump?

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

Answer: A) Ball bearing

15. 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

16. 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

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

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

Answer: C) Fatigue strength

18. What is ovality of a bore?

- A) Difference in dia measured only at top 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 bottom

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

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

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

Answer: C) Taper roller bearing

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

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

Answer: A) Chromium vanadium nickel steel

21. What is the reason for corrosion of bearing?

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

Answer: D) Water mixed with lubricant

22. 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

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

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

Answer: A) Crank shaft

24. Which is connected with pison through piston pin?

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

Answer: D) Connecting rod

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

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

Answer: A) Half

26. What is the purpose of the timing chain?

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

Answer: A) To connect crank or cam shaft gear

27. What is the cause of excessive loading?

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

Answer: B) Fatigue failure

28. What is the material for cam shaft?

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

Answer: B) Forged alloy steel

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

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

Answer: A) Embedability

30. 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

31. Which part connect the piston with connecting rod?

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

Answer: C) Piston pin

32. 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

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

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

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

Answer: D) Axial and radial load

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

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

Answer: A) Vacuum gauge

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

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

Answer: C) Gear boxes

36. 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

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

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

Answer: C) Connecting rod

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

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

Answer: B) Shell bearing

39. 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

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

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

Answer: B) Fly wheel

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

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

Answer: C) Feeler gauge

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

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

Answer: B) Skirt of the piston

43. Which is the bearing used in gear boxes?

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

Answer: D) Ball bearing