

ITI Quiz - 03-Mar-2026

09:05 PM

Q. ID: ITISKILL6779DG

March 2026

Question Paper

Duration: 50 Mins

Total Marks: 43

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Student Name: _____ Roll No: _____

1. Which tool is required to remove the valves?

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

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

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

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

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

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

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

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

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

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

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

7. Which part connect the piston with connecting rod?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

15. What is the material of cylinder block?

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

16. 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

17. What is the purpose of the timing chain?

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

18. What is the reason for corrosion of bearing?

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

19. 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 from top to bottom of a crank shaft outer dia
- D) Difference in dia measured thrust to non thrust across dia

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

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

21. What is ovality of a bore?

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

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

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

23. Which is the bearing used in water pump?

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

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

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

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

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

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

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

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

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

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

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

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

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

30. What is the cause of excessive loading?

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

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

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

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

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

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

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

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

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

35. Which is connected with piston through piston pin?

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

36. 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

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

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

38. What is the material for cam shaft?

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

39. Which is the bearing used in gear boxes?

- A) Taper roller bearing
- B) Needle bearing

C) Ball bearing

D) Roller bearing

C) Wrought iron

D) Cast iron

40. 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

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

A) High speed steel

B) Chromium vanadium
nickel steel

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

A) Thrust load

B) Radial and axial load

C) Radial load

D) Axial and radial load

43. What is the material of piston pins?

A) Bronze

B) Cast iron

C) Nickel chromium steel

D) HSS
