

ITI Quiz - 05-Mar-2026

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Q. ID: ITISKILL46173I

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 43

ID: ITISKILL46173I

Student Name: _____ Roll No: _____

1. Which is connected with piston through piston pin?

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

2. What is the material of cylinder block?

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

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

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

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

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

5. What is the material for cam shaft?

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

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

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

7. 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

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

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

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

- A) Connecting rods
- B) Gear boxes

C) Differential

D) Fly wheel

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

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

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

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

12. What is the reason for corrosion of bearing?

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

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

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

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

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

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

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

16. What is ovality of a bore?

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

17. 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

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

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

19. What is the purpose of the timing chain?

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

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

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

21. What is the cause of excessive loading?

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

22. Which is the bearing used in water pump?

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

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

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

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

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

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

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

26. Which is the bearing used in gear boxes?

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

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

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

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

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

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

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

30. What is ovality of a crank shaft?

- A) Difference in dia measured only at bottom
- B) Difference in dia measured only at top
- 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

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

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

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

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

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

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

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

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

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

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

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

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

37. What is the material of piston pins?

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

38. Which tool is required to remove the valves?

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

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

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

40. Which part connect the piston with connecting rod?

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

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

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

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

heavy vehicles?

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

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

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