

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. Where the fly wheel is fitted in the engine?

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

2. 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

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

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

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

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

5. What is the purpose of the timing chain?

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

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

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

7. Which is the bearing used in water pump?

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

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

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

9. What is the material of cylinder block?

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

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

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

11. Which tool is required to remove the valves?

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

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

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

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

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

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

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

15. 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 engine timing D) To set the F.I.P timing

16. What is ovality of a bore?

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

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

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

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

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

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

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

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

30. Which part connect the piston with connecting rod?

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

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

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

31. What is the material of piston pins?

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

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

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

32. 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

36. What is the cause of excessive loading?

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

26. What is the material for cam shaft?

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

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

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

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

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

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

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

38. Which is the bearing used in gear boxes?

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

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

39. What is the reason for corrosion of bearing?

- A) Over loaded
- C) Water mixed with lubricant

- B) Over heated
- D) Less clearance

C) Surface action

D) Embeddability

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

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

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

- A) Fatigue strength
- B) Thermal conductivity

42. Which is connected with piston through piston pin?

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

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

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