

Duration: 30 Mins

Total Marks: 43

ID: ITISKILL7620LE

Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

3. What is the purpose of the timing chain?

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

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

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

4. 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

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

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

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

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

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

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

6. 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

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

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

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

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

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

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

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

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

16. 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

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

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

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

18. Which is connected with pison through piston pin?

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

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

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

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

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

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

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

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

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

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

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

24. Which tool is required to remove the valves?

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

25. What is the material of cylinder block?

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

26. What is the material of piston pins?

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

27. What is the material for cam shaft?

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

28. What is ovality of a crank shaft?

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

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

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

30. What is the cause of excessive loading?

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

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

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

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

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

33. Which is the bearing used in gear boxes?

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

34. Which is the bearing used in water pump?

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

35. Which part connect the piston with connecting rod?

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

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

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

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

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

38. What is the reason for corrosion of bearing?

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

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

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

40. What is ovality of a bore?

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

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

- A) Push rod
- C) Crank Shaft

- B) Cam Shaft
- D) Connecting rod

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

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

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

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