

Duration: 60 Mins

Total Marks: 43

Q.ID: ITISKILL4178WK

1. 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

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

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

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

Answer: A) Embedability

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

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

Answer: D) During assembling cam shaft

4. 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

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

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

Answer: A) Half

6. What is the material for cam shaft?

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

Answer: B) Forged alloy steel

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

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

Answer: C) Radial load

8. Which part connect the piston with connecting rod?

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

Answer: D) Piston pin

9. Which tool is required to remove the valves?

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

Answer: D) Valve spring lifter

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

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

Answer: B) Chromium vanadium nickel steel

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

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

Answer: A) Fatigue strength

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

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

Answer: A) Skirt of the piston

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

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

Answer: A) Taper roller bearing

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

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

Answer: B) Gear boxes

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

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

Answer: B) Differential and wheel hub

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

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

Answer: A) Puller

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

end?

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

Answer: D) Shell bearing

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

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

Answer: D) Connecting rod

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

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

Answer: B) Outside micrometer

20. What is ovality of a bore?

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

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

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

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

Answer: A) Compression loss

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

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

Answer: B) Dial gauge

23. What is the material of cylinder block?

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

Answer: C) Cast iron

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

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

Answer: A) Induction hardening

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

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

Answer: C) Connecting rod

26. What is the cause of excessive loading?

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

Answer: D) Fatigue failure

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

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

Answer: B) Bend twist

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

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

Answer: D) Dial indicator

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

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

Answer: D) Ring expander

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

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

Answer: B) Connecting rod

31. What is the reason for corrosion of bearing?

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

Answer: B) Water mixed with lubricant

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

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

Answer: B) Vacuum gauge

33. What is the material of piston pins?

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

Answer: C) Nickel chromium steel

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

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

Answer: C) Crank shaft

35. Which is the bearing used in gear boxes?

- A) Taper roller bearing
- B) Ball bearing

- C) Roller bearing D) Needle bearing

Answer: B) Ball bearing

36. Which is connected with piston through piston pin?

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

Answer: D) Connecting rod

37. What is the purpose of the timing chain?

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

Answer: D) To connect crank or cam shaft gear

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

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

Answer: D) To set the engine timing

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

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

Answer: D) Fly wheel

40. 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

Answer: C) Difference in dia measured thrust to non thrust across dia

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

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

Answer: A) Axial and radial load

42. Which is the bearing used in water pump?

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

Answer: B) Ball bearing

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

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

Answer: C) Surface action