

Duration: 30 Mins

Total Marks: 43

Q.ID: ITISKILL458906

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

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

**Answer: A) Chromium vanadium nickel steel**

2. 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**

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

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

**Answer: D) Outside micrometer**

4. What is the purpose of the timing chain?

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

**Answer: B) To connect crank or cam shaft gear**

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

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

**Answer: A) Dial indicator**

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

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

**Answer: A) Compression loss**

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

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

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

8. 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**

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

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

**Answer: D) Connecting rod**

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

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

**Answer: D) Taper roller bearing**

11. Which is connected with piston through piston pin?

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

**Answer: C) Connecting rod**

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

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

**Answer: C) Fly wheel**

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

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

**Answer: D) Surface action**

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

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

**Answer: B) Skirt of the piston**

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

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

**Answer: A) Crank shaft**

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

- A) Fatigue strength  
 B) Toughness

C) Hardness                      D) Tensile strength

**Answer: A) Fatigue strength**

17. 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 top                      D) Difference in dia measured only at bottom

**Answer: A) Difference in dia measured thrust to non thrust across dia**

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

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

**Answer: C) Differential and wheel hub**

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

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

**Answer: B) During assembling cam shaft**

20. Which is the bearing used in gear boxes?

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

**Answer: C) Ball bearing**

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

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

**Answer: D) Gear boxes**

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

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

**Answer: D) Embedability**

23. 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 set the engine timing                      D) To coincide the gears

**Answer: C) To set the engine timing**

24. What is the material of piston pins?

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

**Answer: B) Nickel chromium steel**

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

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

**Answer: A) Connecting rod**

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

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

**Answer: B) Feeler gauge**

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

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

**Answer: C) Bend twist**

28. 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**

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

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

**Answer: B) Connecting rod**

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

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

**Answer: B) Induction hardening**

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

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

**Answer: B) Ring expander**

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

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

**Answer: B) Dial gauge**

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

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

**Answer: B) Axial and radial load**

34. What is ovality of a bore?

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

- C) Difference in dia measured only at bottom      D) Difference in dia measured top to bottom

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

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

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

**Answer: C) Shell bearing**

**36.** What is the cause of excessive loading?

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

**Answer: A) Fatigue failure**

**37.** What is the material of cylinder block?

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

**Answer: D) Cast iron**

**38.** Which is the bearing used in water pump?

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

**Answer: A) Ball bearing**

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

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

**Answer: D) Vacuum gauge**

**40.** Which part connect the piston with connecting rod?

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

**Answer: B) Piston pin**

**41.** What is the speed ratio cam shaft to crank shaft?

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

**Answer: C) Half**

**42.** Which tool is required to remove the valves?

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

**Answer: A) Valve spring lifter**

**43.** Which tool used to remove the crank shaft pully?

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

**Answer: B) Puller**