

Duration: 60 Mins

Total Marks: 43

Q.ID: ITISKILL5012P9

1. What is the purpose of the timing chain?

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

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

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

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

**Answer: A) Connecting rod**

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

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

**Answer: C) Compression loss**

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

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

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

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

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

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

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

- A) Compression ring bottom of the piston skirt  
 B) Compression ring between oil ring and piston pin  
 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**

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

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

**Answer: C) Ring expander**

8. What is the material of cylinder block?

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

**Answer: B) Cast iron**

9. What is the material for cam shaft?

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

**Answer: D) Forged alloy steel**

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

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

**Answer: B) Dial indicator**

11. What is the material of piston pins?

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

**Answer: D) Nickel chromium steel**

12. Which is connected with piston through piston pin?

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

**Answer: A) Connecting rod**

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

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

**Answer: A) Dial gauge**

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

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

**Answer: A) Connecting rod**

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

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

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

16. What is the cause of excessive loading?

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

**Answer: B) Fatigue failure**

17. Which is the bearing used in gear boxes?

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

**Answer: B) Ball bearing**

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

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

**Answer: B) Shell bearing**

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

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

**Answer: C) Fly wheel**

20. 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

**Answer: A) Fatigue strength**

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

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

**Answer: D) Feeler gauge**

22. 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**

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

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

**Answer: C) Surface action**

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

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

**Answer: D) Radial load**

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

- A) Ball bearing                                B) Taper roller bearing

- C) Roller bearing                        D) Needle bearing

**Answer: B) Taper roller bearing**

26. What is ovality of a crank shaft?

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

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

27. Which part connect the piston with connecting rod?

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

**Answer: A) Piston pin**

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

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

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

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

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

**Answer: A) Gear boxes**

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

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

**Answer: B) Puller**

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

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

**Answer: A) Bend twist**

32. 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

**Answer: C) Connecting rod**

33. 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 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**

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

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

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

35. Which tool is required to remove the valves?

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

**Answer: B) Valve spring lifter**

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

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

**Answer: C) Induction hardening**

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

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

**Answer: B) Outside micrometer**

38. 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**

39. Which is the bearing used in water pump?

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

**Answer: D) Ball bearing**

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

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

**Answer: C) Embedability**

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

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

**Answer: D) Half**

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

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

**Answer: D) Vacuum gauge**

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

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

**Answer: B) Crank shaft**