

**Duration: 30 Mins****Total Marks: 43****Q.ID: ITISKILL7971SX**

1. What is the material for cam shaft?

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

**Answer: B) Forged alloy steel**

2. Which is the bearing used in water pump?

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

**Answer: C) Ball bearing**

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

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

**Answer: B) Vacuum gauge**

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

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

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

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

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

**Answer: D) Half**

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

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

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

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

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

**Answer: B) Ring expander**

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

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

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

9. 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**

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

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

**Answer: C) Gear boxes**

11. 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**

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

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

**Answer: D) Fly wheel**

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

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

**Answer: D) Surface action**

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

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

**Answer: C) Fatigue strength**

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

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

**Answer: A) Induction hardening**

16. 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**

17. 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

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

**18.** What is ovality of a crank shaft?

- A) Difference in dia measured only at bottom      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 thrust to non thrust across dia

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

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

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

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

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

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

**Answer: A) Compression loss**

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

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

**Answer: C) Piston pin**

**22.** Which is the bearing used in gear boxes?

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

**Answer: C) Ball bearing**

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

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

**Answer: C) Cast iron**

**24.** What is the load taken by taper roller bearing?

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

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

**25.** 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

**Answer: C) Taper roller bearing**

**26.** What is the material of piston pins?

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

**Answer: D) Nickel chromium steel**

**27.** 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

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

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

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

**Answer: C) Fatigue failure**

**29.** What is the purpose of the timing chain?

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

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

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

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

**Answer: D) Outside micrometer**

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

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

**Answer: D) Connecting rod**

**32.** Which is connected with piston through piston pin?

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

**Answer: B) Connecting rod**

**33.** Which is transferring energy for the piston to crankshaft?

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

**Answer: C) Connecting rod**

**34.** Which tool used to remove the crank shaft pulley?

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

**Answer: A) Puller**

35. 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 thrust to non thrust side of cylinder
- D) Difference in dia measured only at top

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

36. What is the reason for corrosion of bearing?

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

**Answer: C) Water mixed with lubricant**

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

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

**Answer: D) Radial load**

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

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

**Answer: A) Feeler gauge**

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

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

**Answer: D) Connecting rod**

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

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

**Answer: D) Bend twist**

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

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

**Answer: C) Dial gauge**

42. 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**

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

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

**Answer: A) Crank shaft**