

Duration: 30 Mins

Total Marks: 43

ID: ITISKILL7971SX

Student Name: _____ Roll No: _____

1. What is the purpose of the timing chain?

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

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

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

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

11. Which is connected with piston through piston pin?

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

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

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

12. What is the material for cam shaft?

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

4. 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

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

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

5. What is the material of cylinder block?

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

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

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

6. Which is the bearing used in gear boxes?

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

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

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

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

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

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

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

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

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

17. What is ovality of a bore?

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

9. Which is the bearing used in water pump?

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

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

- A) Ball bearing
B) Needle bearing

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

C) Taper roller bearing

D) Roller bearing

C) Axial and radial load

D) Radial and axial load

19. 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

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

A) Connecting rods

B) Fly wheel

C) Oil pumps

D) Crank shaft

21. What is the material of piston pins?

A) HSS

B) Nickel chromium steel

C) Bronze

D) Cast iron

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

A) Axial load

B) Radial load

C) Radial and axial load

D) Thrust load

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

A) During assembling water pump

B) During assembling oil pump

C) During assembling cam shaft

D) During assembling radiator

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

A) Fly wheel

B) Gear boxes

C) Differential

D) Connecting rods

25. What is the reason for corrosion of bearing?

A) Less clearance

B) Over heated

C) Over loaded

D) Water mixed with lubricant

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

A) Curve hardening

B) Surface hardening

C) Induction hardening

D) Case hardening

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

A) False valve timing

B) Miss firing

C) Difficult starting

D) Compression loss

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

A) Ring section of the piston

B) Land of the piston

C) Skirt of the piston

D) Crown of the piston

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

A) Thrust load

B) Radial load

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

A) Connecting rods

B) Gear boxes

C) Differential and wheel hub

D) Fly wheel and water pump

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

A) King pin

B) Cam shaft

C) Gudgeon pin

D) Connecting rod

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

A) Half

B) Triple

C) Equal

D) Double

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

A) Outside micrometer

B) Master ring gauge

C) Three point internal micrometer

D) Inside micrometer

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

A) Pipe wrench

B) Ring spanner

C) Double and spanner

D) Puller

35. What is the cause of excessive loading?

A) Fatigue failure

B) Bearing struck

C) Bearing crush

D) Bearing spread

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

A) Wire gauge

B) Vacuum gauge

C) Compression gauge

D) Dial gauge

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

A) Cast iron

B) Chromium vanadium nickel steel

C) Wrought iron

D) High speed steel

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

A) Connecting rod

B) Crank Shaft

C) Push rod

D) Cam Shaft

39. 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

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

41. Which tool is required to remove the valves?

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

42. What is ovality of a crank shaft?

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

C) Difference in dia measured from top to bottom of a crank shaft outer dia

D) Difference in dia measured only at bottom

43. Which part connect the piston with connecting rod?

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