

Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

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

2. What is the material for cam shaft?

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

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

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

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

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

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

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

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

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

7. 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

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

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

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

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

10. Which tool is required to remove the valves?

- A) Valve spring lifter      B) Box spanner

C) Scraper

D) Torque wrench

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

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

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

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

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

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

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

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

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

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

16. What is the material of cylinder block?

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

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

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

18. What is ovality of a crank shaft?

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

19. Which is connected with pison through piston pin?

- A) Connecting rod
- C) Cam shaft

- B) Gudgeon pin
- D) Rocker arm

- A) Vacuum gauge
- C) Depth gauge

- B) Dial gauge
- D) Compression gauge

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

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

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

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

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

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

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

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

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

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

25. Which part connect the piston with connecting rod?

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

26. What is the purpose of the timing chain?

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

27. Which is the bearing used in water pump?

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

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

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

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

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

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

31. What is the material of piston pins?

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

32. What is the cause of excessive loading?

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

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

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

34. What is the reason for corrosion of bearing?

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

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

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

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

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

37. What is ovality of a bore?

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

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

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

39. Which is the bearing used in gear boxes?

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

40. What is the property of a bearing helps to with stand

metal to metal contact?

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

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

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

**42.** Which is the most preferred use of bush bearings?

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

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

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