

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

1. Which part connect the piston with connecting rod?

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

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

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

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

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

4. 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

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

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

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

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

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

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

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

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

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

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

10. What is the material of cylinder block?

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

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

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

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

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

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

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

14. What is ovality of a bore?

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

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

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

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

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

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

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

18. Which is the bearing used in water pump?

- A) Roller bearing                              B) Taper roller bearing

- C) Needle bearing                      D) Ball bearing

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

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

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

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

21. What is the purpose of the timing chain?

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

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

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

23. What is the material for cam shaft?

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

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

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

25. What is the cause of excessive loading?

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

26. Which tool is required to remove the valves?

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

27. What is the reason for corrosion of bearing?

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

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

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

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

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

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

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

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

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

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

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

33. What is the material of piston pins?

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

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

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

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

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

36. Which is the bearing used in gear boxes?

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

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

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

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

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

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

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

40. Which is connected with pison through piston pin?

- A) Gudgeon pin
- C) Cam shaft

- B) Connecting rod
- D) Rocker arm

41. 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 thrust to non thrust across dia

D) Difference in dia measured only at top

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

A) During assembling radiator

B) During assembling oil pump

C) During assembling water pump

D) During assembling cam shaft

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

A) King pin

B) Gudgeon pin

C) Connecting rod

D) Cam shaft