

ENGINE COMPONENTS

Q. ID: ITISKILL0388RF

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Question Paper

Duration: 60 Mins

Total Marks: 43

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Student Name: _____ Roll No: _____

1. Which is connected with piston through piston pin?

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

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

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

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

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

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

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

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

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

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

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

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

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

8. What is the cause of excessive loading?

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

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

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

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

- A) Feeler gauge
- B) Screw pitch gauge

C) Wire gauge

D) Telescopic gauge

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

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

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

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

13. Which part connect the piston with connecting rod?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

21. What is the material for cam shaft?

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

22. 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

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

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

24. What is the reason for corrosion of bearing?

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

25. Which is the bearing used in gear boxes?

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

26. What is the purpose of the timing chain?

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

27. What is the material of piston pins?

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

28. Which tool is required to remove the valves?

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

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

- A) Shell bearing
B) Taper roller bearing

- C) Needle bearing
D) Ball bearing

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

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

31. Which is the bearing used in water pump?

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

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

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

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

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

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

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

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

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

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

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

37. What is the material of cylinder block?

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

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

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

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

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

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

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

41. What is ovality of a crank shaft?

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

42. What is ovality of a bore?

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

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

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