ENGINE COMPONENTS

Q. ID: ITISKILL0388RF

February 2026

Answer Key

Duration: 60 Mins **Total Marks: 43** **Q.ID: ITISKILL0388RF**

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

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

Answer: B) Fatigue strength

2. What is the material for cam shaft?

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

Answer: B) Forged alloy steel

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

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

Answer: C) Outside micrometer

4. Which part connect the piston with connecting rod?

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

Answer: C) Piston pin

5. Which is connected with pison through piston pin?

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

Answer: C) Connecting rod

6. 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

7. Which tool is required to remove the valves?

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

Answer: A) Valve spring lifter

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

A) Thermal conductivity
B) Fatique strength
C) Surface action
D) Embeddability

Answer: C) Surface action

9. Which is the bearing used in gear boxes?

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

Answer: C) Ball bearing

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

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

Answer: B) Axial and radial load

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

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

Answer: B) Feeler gauge

12. What is ovality of a bore?

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

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

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

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

Answer: C) Connecting rod

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

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

Answer: A) During assembling cam shaft

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

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

Answer: A) Ring expander

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

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

Answer: C) Half

17. 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 from top to bottom of a crank shaft outer dia
D) Difference in dia measured thrust to non thrust across dia

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

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

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

Answer: B) Bend twist

19. What is the effect of tapper and ovality of a bore?

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

Answer: A) Compression loss

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

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

Answer: C) Chromium vanadium nickel steel

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

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

Answer: B) Gear boxes

22. What is the reason for corrosion of bearing?

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

Answer: A) Water mixed with lubricant

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

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

Answer: B) Taper roller bearing

24. Which is the bearing used in water pump?

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

Answer: C) Ball bearing

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

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

Answer: D) Embedability

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

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

Answer: C) Compression ring above the oil ring in the piston

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

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

Answer: A) Connecting rod

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

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

Answer: B) Vacuum gauge

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

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

Answer: C) Induction hardening

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

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

Answer: C) Fly wheel

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

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

Answer: B) Puller

32. What is the purpose of the timing chain?

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

Answer: D) To connect crank or cam shaft gear

33. What is the material of piston pins?

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

Answer: D) Nickel chromium steel

34. 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

Answer: C) Skirt of the piston

35. What is the cause of excessive loading?

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

Answer: B) Fatigue failure

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

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

Answer: A) Connecting rod

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

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

Answer: A) Shell bearing

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

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

Answer: B) To set the engine timing

39. What is the material of cylinder block?

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

Answer: B) Cast iron

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

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

Answer: B) Differential and wheel hub

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

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

Answer: A) Crank shaft

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

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

Answer: B) Dial indicator

43. Which gauge used to measure the cylinder bore wearness?

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

Answer: D) Dial gauge