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Score: 19/38 (50.00%)

Code: 9013

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

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

2. What is the material of piston pins?

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

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

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

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

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

5. Which part connect the piston with connecting rod?

- A) **Piston pin (Correct)** B) Spilt pin
C) Crank pin D) Cotter pin

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

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

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

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

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

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

9. What is the material for cam shaft?

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

10. Which tool is required to remove the valves?

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

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

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

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

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

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

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

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

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

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

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

16. Which is connected with pison through piston pin?

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

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

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

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

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

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

- A) Radial load**
C) Thrust load
- B) Axial load
D) Radial and axial load
(Incorrect)
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- 20.** What is the load taken by taper roller bearing?
A) Radial load
C) Thrust load
- B) Axial and radial load**
D) Radial and axial load
(Incorrect)
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- 21.** Which is the bearing used in differential and wheel of a heavy vehicles?
A) Ball bearing
C) Needle bearing (Incorrect)
- B) Roller bearing
D) **Taper roller bearing**
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- 22.** Which is the bearing used in water pump?
A) **Ball bearing**
C) Needle bearing
- B) Roller bearing
D) Taper roller bearing
(Incorrect)
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- 23.** Which is the bearing used in gear boxes?
A) **Ball bearing (Correct)**
C) Needle bearing
- B) Roller bearing
D) Taper roller bearing
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- 24.** Which is the most preferred use of bush bearings?
A) Connecting rods
C) Crank shaft (Incorrect)
- B) Fly wheel**
D) Oil pumps
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- 25.** Where is the compression ring is fitted in the piston?
A) **Compression ring above the oil ring in the piston (Correct)**
C) Compression ring between oil ring and piston pin
- B) Compression ring bottom of the piston skirt
D) Compression ring between piston pin and bottom of skirt
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- 26.** Which tool is used to remove the piston ring?
A) Drift punch
C) Circlip plier
- B) Ring expander**
D) 'C' clamp (Incorrect)
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- 27.** What is the purpose of the timing chain?
A) To connect water pump pulley
C) **To connect crank or cam shaft gear (Correct)**
- B) To connect alternator
D) To connect A/C compressor
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- 28.** What is the purpose of the fly wheel timing mark?
A) To coincide the gears
C) To set the F.I.P timing (Incorrect)
- B) To set the engine timing**
D) To set the valve clearance
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- 29.** Where the fly wheel is fitted in the engine?
A) Cam shaft (Incorrect)
C) Rocker arm shaft
- B) Crank shaft**
D) Primary shaft
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- 30.** What is the speed ratio cam shaft to crank shaft?
A) **Half (Correct)**
C) Double
- B) Equal
D) Triple
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- 31.** When it is required to coincide the mark with timing gears?
A) During assembling water pump
C) **During assembling cam shaft (Correct)**
- B) During assembling oil pump
D) During assembling radiator
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- 32.** Which instrument is used to check the tappet clearance?
A) Telescopic gauge
C) **Feeler gauge (Correct)**
- B) Screw pitch gauge
D) Wire gauge
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- 33.** Which gauge used to measure the cylinder bore weariness?
A) Compression gauge
C) **Dial gauge**
- B) Vacuum gauge (Incorrect)
D) Depth gauge
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- 34.** What is the property allows a bearing to with stand impact load for a reasonable time?
A) **Fatigue strength**
C) Toughness
- B) Tensile strength
D) Hardness (Incorrect)
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- 35.** What is the property of bearing helps to absorb dirt and metal particles?
A) Conformability
C) Surface action
- B) Embedability (Correct)**
D) Thermal conductivity
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- 36.** What is the cause of excessive loading?
A) **Fatigue failure**
C) Bearing crush
- B) Bearing spread
D) Bearing struck (Incorrect)
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- 37.** What is the cause for uneven wear of bearings?
A) **Bend twist (Correct)**
C) No lubrication
- B) Excessive lubrication
D) Over heat
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- 38.** What is ovality of a crank shaft?
A) Difference in dia measured from top to bottom of a crank shaft outer dia (Incorrect)
C) Difference in dia measured only at top
- B) Difference in dia measured thrust to non thrust across dia**
D) Difference in dia measured only at bottom