

Trinity iti Udupi

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60.47% 26 / 43

Student Name	Joseph	Access Code	4005
Attempt No.	#1	Completion Time	03:22 PM
Rank	#5	Total Questions	43

26 SCORE

43 MAX MARKS

26 CORRECT

17 INCORRECT

Answer Review

Q1 **CORRECT** What is the material used to produce crank shaft?

A. Chromium vanadium nickel steel ☒

B. High speed steel ☐

C. Cast iron ☐

D. Wrought iron ☐

Q2 **INCORRECT** What is the material of piston pins?

A. Nickel chromium steel ☐

B. Cast iron ☐

C. HSS ☒

D. Bronze ☐

Q3 **CORRECT** 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 ☒

Q4 **INCORRECT** What type of bearing fitted in the connecting rod big end?

- A. Needle bearing ☐
- B. Ball bearing
- C. Taper roller bearing
- D. Shell bearing ☒

Q5 **CORRECT** Which part connect the piston with connecting rod?

- A. Piston pin ☒
- B. Spilt pin
- C. Crank pin
- D. Cotter pin

Q6 **CORRECT** Which part is connect the piston with crank pin?

- A. Push rod
- B. Connecting rod ☒
- C. Cam Shaft
- D. Crank Shaft

Q7 **CORRECT** Which tool used to remove the crank shaft pully?

A. Double and spanner

B. Ring spanner

C. Pipe wrench

D. Puller ☒

Q8 **CORRECT** 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

D. Master ring gauge

Q9 **INCORRECT** What is the material for cam shaft?

A. Forged alloy steel ☒

B. Copper alloy

C. Aluminium alloy ☐

D. Zinc alloy

Q10 **CORRECT** Which tool is required to remove the valves?

A. Torque wrench

B. Valve spring lifter ☒

C. Box spanner

D. Scraper

Q11 **CORRECT** Which instrument is used to check the vacuum of the cylinder?

A. Compression gauge

B. Dial gauge

C. Vacuum gauge ☒

D. Wire gauge

Q12 **CORRECT** Which measuring instrument used to check the fly wheel face out?

A. Dial indicator ☒

B. Compression gauge

C. Outside micrometer

D. Feeler gauge

Q13 **CORRECT** 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

Q14 **INCORRECT** 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 ☐

Q15 **CORRECT** Which is the most preferred use of roller bearings?

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

Q16 **CORRECT** Which is connected with piston through piston pin?

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

Q17 **INCORRECT** Which is the key element in converting reciprocating motion in to rotary motion?

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

Q18 **CORRECT** Which is transferring energy for the piston to crankshaft?

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

Q19 **CORRECT** Which is the load taken by the roller bearing?

- A.** Radial load ☒
- B.** Axial load ☐
- C.** Thrust load ☐
- D.** Radial and axial load ☐

Q20 **INCORRECT** 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 ☐

Q21 **CORRECT** Which is the bearing used in differential and wheel of a heavy vehicles?

- A.** Ball bearing ☐
- B.** Roller bearing ☐
- C.** Needle bearing ☐
- D.** Taper roller bearing ☒

Q22 **INCORRECT** Which is the bearing used in water pump?

- A.** Ball bearing ☒
- B.** Roller bearing ☐
- C.** Needle bearing ☐
- D.** Taper roller bearing ☐

Q23 **CORRECT** Which is the bearing used in gear boxes?

- A. Ball bearing ☒
- B. Roller bearing ☐
- C. Needle bearing ☐
- D. Taper roller bearing ☐

Q24 **INCORRECT** Which is the most preferred use of bush bearings?

- A. Connecting rods ☐
- B. Fly wheel ☒
- C. Crank shaft ☐
- D. Oil pumps ☐

Q25 **INCORRECT** Where is the compression ring is fitted in the piston?

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

Q26 **CORRECT** Which tool is used to remove the piston ring?

- A. Drift punch ☐
- B. Ring expander ☒
- C. Circlip plier ☐
- D. 'C' clamp ☐

Q27 **CORRECT** What is the purpose of the timing chain?

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

Q28 **INCORRECT** What is the purpose of the fly wheel timing mark?

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

Q29 **CORRECT** Where the fly wheel is fitted in the engine?

- A. Cam shaft
- B. Crank shaft ☒
- C. Rocker arm shaft
- D. Primary shaft

Q30 **INCORRECT** What is the speed ratio cam shaft to crank shaft?

- A. Half ☒
- B. Equal ☐
- C. Double
- D. Triple

Q31 **INCORRECT** When it is required to coincide the mark with timing gears?

A. During assembling water pump ☐

B. During assembling oil pump

C. During assembling cam shaft ☒

D. During assembling radiator

Q32 **CORRECT** Which instrument is used to check the tappet clearance?

A. Telescopic gauge

B. Screw pitch gauge

C. Feeler gauge ☒

D. Wire gauge

Q33 **CORRECT** Which gauge used to measure the cylinder bore weariness?

A. Compression gauge

B. Vacuum gauge

C. Dial gauge ☒

D. Depth gauge

Q34 **CORRECT** 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

Q35 **CORRECT** What is the property of bearing helps to absorb dirt and metal particles?

A. Conformability

B. Embedability ☒

C. Surface action

D. Thermal conductivity

Q36 **CORRECT** What is the cause of excessive loading?

A. Fatigue failure ☒

B. Bearing spread

C. Bearing crush

D. Bearing struck

Q37 **INCORRECT** What is the cause for uneven wear of bearings?

A. Bend twist ☐

B. Excessive lubrication ☒

C. No lubrication

D. Over heat

Q38 **INCORRECT** What is ovality of a crank shaft?

A. Difference in dia measured from top to bottom of a crank shaft outer dia ☒

B. Difference in dia measured thrust to non thrust across dia ☐

C. Difference in dia measured only at top

D. Difference in dia measured only at bottom

Q39 **INCORRECT** What is the type of hardening done on crank shaft?

A. Induction hardening ☐

B. Case hardening ☒

C. Surface hardening

D. Curve hardening

Q40 **CORRECT** What is ovality of a bore?

A. Difference in dia measured top to bottom

B. Difference in dia thrust to non thrust side of cylinder ☒

C. Difference in dia measured only at top

D. Difference in dia measured only at bottom

Q41 **INCORRECT** What is the effect of taper and ovality of a bore?

A. Compression loss ☒

B. Miss firing

C. Difficult starting

D. False valve timing ☐

Q42 **CORRECT** What is the material of cylinder block?

A. Cast iron ☒

B. Bronze

C. Brass

D. Zinc alloy

Q43 **INCORRECT** What is the reason for corrosion of bearing?

A. Less clearance

B. Water mixed with lubricant ☐

C. Over loaded

D. Over heated ☐