

Duration: 30 Mins

Total Marks: 20

ID: ITISKILL52246P

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|---------------------|----------------|
| Student Name: _____ | Roll No: _____ |
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1. Where is the oil cooler fitted in the engine?

- A) Exhaust manifold      B) Engine block  
C) Cylinder head      D) Oil sump

- A) AC welding transformer with a rectifier      B) AC arc welding machine  
C) Engine generator set      D) Motor generator set

2. Which type of hardening used eddy current in the metal bar?

- A) Induction hardening      B) Nitriding hardening  
C) Flame hardening      D) Annealing hardening

10. What is the name of the governor in which the control rack connected with counter weight floating lever?

- A) Hydraulic governor      B) Servo governor  
C) Mechanical governor      D) Pneumatic governor

3. What is the possible cause of low power generation?

- A) Defective oil filter      B) More supply of fuel  
C) More supply of air      D) Incomplete combustion of fuel

11. Which part actuates the movement of the dial for reading measurement of dial bore gauge?

- A) Centring shoe      B) Plunger  
C) Fixed anvil      D) Stem

4. Which type of nut required to align the axle shaft hole and slot of the nut for locking?

- A) Castle nut      B) Self lock nut  
C) Chuck nut      D) Thumb nut

12. Which engine is used sea water cooling, water cooled?

- A) Marine engine      B) Heavy vehicle engine  
C) Aircraft engine      D) Light motor vehicle engine

5. Which is less harmful emission elements after convert by catalytic converter

- A)  $Pb + CO_2 + H_2O + NOx$       B)  $Co_2 + H_2 + O_2$   
C)  $H_2O + CO_2 + Nitrogen$       D)  $NOx + Co_2 + Pm$

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

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

6. What is the mechanical causes engine does not start?

- A) Defective thermostat valve      B) Starter motor mounting bolt loose  
C) Clogged fuel filter      D) Defective alternator

14. Which vice is used to hold a very small diameter job?

- A) Pipe vice      B) Hand vice  
C) Tool maker's vice      D) Pin vice

7. What is the reason for engine over heating?

- A) External fuel leak      B) Oil pressure high  
C) Improper injection timing      D) Defective starting motor

15. Which is the device used to transmit the rotary motion in marine engine?

- A) Hydraulic coupling      B) Hydraulic jack  
C) Hydraulic brake      D) Hydraulic actuator

8. Which type of fit will have maximum size hole and minimum size shaft?

- A) Interference fit      B) Transition fit  
C) Shrinkage fit      D) Clearance fit

16. What is the reason for engine over heating?

- A) Clogged fuel filter      B) Fuel leakage  
C) External leakage of oil      D) Defective thermostat valve

9. Which machine can be used any where in the field for welding away from electric main supply?

17. Which device converts mechanical into pneumatic energy?

- A) Compressor      B) Alternation  
C) Actuator      D) Generator

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

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

**19.** Where the bush bearing preferred?

- A) Differential and wheel hub
- B) Connecting rods

C) Gear boxes

D) Fly wheel and water pumps

**20.** What is the possible cause for no charge when engine is running?

- A) Battery with half-charge
- B) Defective starting motor
- C) Slip ring proper seating
- D) Defective diode