

**GEOGRAPHIC INFORMATION SYSTEMS
GEOGRAPHIC INFORMATION CENTER
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***** EXAMINATION *****

OPERATION, MAINTENANCE AND REPAIR OF AUXILIARY GENERATORS

1. **Emergency power is:**
 - a) an independent reserve source of electric energy
 - b) dependent on solar energy
 - c) dependent on batteries
 - d) All of the above

2. **Sources of distribution may be subject to:**
 - a) brownouts
 - b) extended outage
 - c) interruption
 - d) All of the above

3. **Applications for auxiliary generators are:**
 - a) hospitals
 - b) airfields
 - c) data processing centers
 - d) All of the above

4. **Placing generators on a single, uniform foundation:**
 - a) reduce vibration
 - b) reduce alignment problems
 - c) reduce seepage problems
 - d) All of the above

5. **Pumps and piping systems must be:**
 - a) grounded
 - b) protected from stray current
 - c) protected from environmental corrosion
 - d) All of the above

6. **Overcorrection results in:**
 - a) strengthening fuses
 - b) automatic opening of circuit breakers
 - c) severe switching problems
 - d) None of the above

7. **Solid ground is mainly used in low-voltage distribution systems:**
 - a) less than 500 volts
 - b) less than 1000 volts
 - c) less than 1500 volts
 - d) less than 2000 volts

8. **Grounding can be verified by:**
 - a) using a voltmeter
 - b) using a hammer
 - c) performing ground resistance tests
 - d) Any of the above

9. **Exciters that provide DC field current for alternating current**
 - a) generators are small supplemental generators
 - b) generators are large supplemental generators
 - c) generators are large auxiliary generators
 - d) None of the above

10. **The stroke order of reciprocating CI engines is:**
 - a) intake, compression, exhaust, and power
 - b) intake, exhaust, compression, and power
 - c) exhaust, compression, power, and intake
 - d) intake, compression, power, and exhaust

11. **The four cycles of a CI engine result in:**
 - a) one revolution of the crankshaft
 - b) two revolutions of the crankshaft
 - c) three revolutions of the crankshaft
 - d) four revolutions of the crankshaft

12. **The best engine start occurs when fuel is injected at TDC of piston travel:**
 - a) because the air in the combustion chamber is hottest at that instant
 - b) because the combustion chamber is best lubricated at that instant
 - c) because the combustion chamber contains the most fuel at that instant
 - d) All of the above

13. **Unit injector system filters protect components from:**
 - a) excess carbon dioxide
 - b) excess fuel
 - c) dirt and water in the fuel
 - d) None of the above

14. **Fuel lines in an injection nozzle system are:**
 - a) high-pressure type
 - b) low-pressure type
 - c) variable pressure type
 - d) None of the above

15. **Coolant leaving the heat exchanger is:**
- a) disposed of as exhaust
 - b) recirculated to the engine
 - c) recirculated to the intercooler
 - d) None of the above
16. **The bearings of all diesel engines are lubricated by:**
- a) a full-pressure system
 - b) a low-pressure system
 - c) a variable-pressure system
 - d) None of the above
17. **Circulating lubricating oil absorbs:**
- a) gases from the engine
 - b) fuel from the filters
 - c) heat from the engine
 - d) None of the above
18. **Most small diesel engines use:**
- a) a gasoline starting system
 - b) an electric starting system
 - c) either a or b
 - d) None of the above
19. **Four types of governors used for generators include:**
- a) mechanical, gasoline, hydraulic, and pneumatic
 - b) mechanical, electronic, hydraulic, and gasoline
 - c) gasoline, hydraulic, pneumatic, and electronic
 - d) electronic, hydraulic, pneumatic, and mechanical
20. **Burning one pound of fuel requires approximately:**
- a) 5 pounds of air
 - b) 9 pounds of air
 - c) 15 pounds of air
 - d) 20 pounds of air

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