

# D semester - Midterm exam

Choose the correct answer. Έχετε 50 λεπτά. Μπορείτε να υποβάλλετε το τεστ μέσα σε αυτά τα 50 λεπτά. Μετά από αυτόν το χρόνο δε φεύγει το τεστ.

\* This form will record your name, please fill your name.

1. A/ an .....test must be made to see if you can mix several lube oils.

- compatibility
- availability
- efficiency
- contamination

2. The ballast system is often designed as a .....line.

- square
- triangular
- ring
- straight

3. In the .....the high pressure of water creates a vacuum around the nozzle of the device, which causes the suction of bilge water.

- injector
- ejector
- strum box
- strainer

4. To .....means to refill.

- obstruct
- ascertain
- replenish
- activate

5. A box which contains valves, each of which controls the flow of bilge water from a bilge compartment is the .....chest.

- non-return
- main
- distribution
- mud

6. Homogenizers are used to .....any water and sludge remaining in the fuel after centrifuging.

- dismantle
- disassemble
- disappear
- disperse

7. Small particles of the catalyst used in the refining process and carried over onto the residual fuel.

- sediments
- elements
- carbon residues
- cat fines

8. The bilge arrangement in the engine room has an emergency system which is .....and has its suction point at the lowest point in the engine room.

- perforated
- compulsory
- optional
- detachable

9. The rules for the ballast system are less .....than the rules for bilge systems.

- condensed
- capable
- required
- stringent

10. Which areas will suffer high wear if cat fines rates are not reduced?

- fuel valves and exhaust valve seats
- fuel pumps and injectors, liners and piston rings
- the crankshaft and the camshaft
- the bearings

11. What causes fouling of gasways?

- carbon residue
- aluminium
- BoB
- ash

12. Warm up the engine gradually using the .....pumps.

- reversing
- gradual
- excess
- circulating

13. The .....effect of sulphur is counteracted by adequate lube oils.

- corroded
- corrode
- corrosion
- corrosive

14. It is expressed in kilograms per cubic meter and affects the fuel separation.

- ignition property
- density
- flash point
- acid number

15. What do engines designed for operation on high sulphur fuels use to minimize the effects of sulphur?
- fuel oil with high carbon residue
  - cat fines
  - homogenizers
  - special lubricants
16. The bilge pump is a .....pump, which means it doesn't need another pump to supply it with water for starting.
- separate
  - compulsory
  - self-priming
  - reliable
17. How can you remove vanadium deposits from turbocharger nozzle ring?
- by centrifuging
  - using a grinding tool
  - using homogenizers
  - using a fine filter
18. Bar the engine over by means of the .....with the indicator cocks open and the control gear in the top position.
- crank web
  - flywheel
  - steering gear
  - turning gear

19. Before starting the engine, make an examination inside the .....to make sure that no tools, cleaning rags or devices have been left inside.

- crank pin
- crankcase
- camshaft
- sump tank

20. A .....box is a kind of filter on the suction line head which is a perforated basket necessary to prevent ashes from entering pumps.

- filter
- distribution
- strainer
- mud

21. The valves in the ballast arrangement have to be .....valves.

- multi way
- one way
- two way
- single way

22. Ejectors are easily .....by simply turning on the flow of the driving water.

- activated
- utilized
- stabilized
- reversed

23. The function of the bilge system is to

- run interchangeably with the ballast system.
- pump all unwanted water out of the ship.
- to help with fire fighting.
- improve stability.

24. What can replace the traditional cylinder oil?

- BoB
- homogenizers
- cat fines
- circulating lub oil

25. Some pipes and a main ballast pump had been .....for maintenance.

- assembled
- disfunctioned
- refurbished
- dismantled

26. When the '..... with engine' order is given from the bridge, change over from bridge control to engine room control.

- out
- over
- done
- finished

27. You should make preparations .....to arrival in port.

- prior
- before
- after
- post

28. Decide whether the harbour manoeuvres should be carried .....on diesel oil or on HFO.

- away
- out
- over
- on

29. Small amounts of water can .....in the ship as a result of condensation.

- accumulate
- choke
- flow
- float

30. Viscosity cannot be considered a quality criterion in its own right for fuel oils, and is stated only for .....reasons.

- cargo
- use
- handling
- loading



31. Suction lines are .....with valves.

- positioned
- perforated
- mounted
- fitted

32. Damage to .....electrical equipment occurred.

- submersible
- submerged
- submissive
- submarine

33. The water is pumped from the tank by another small pump, only when it is .....clean.

- gradually
- excessively
- enough
- sufficiently

34. Rules made up by Classification Societies have to .....with international SOLAS rules.

- comply
- actuate
- function
- indicate

35. Ballast eductors can be ..... to fill / empty ballast tanks quickly.

- obstructed
- emerged
- utilised
- vented

36. Has turning gear been .....?

- discontinued
- discomposed
- disassembled
- disengaged

37. Check if the fuel .....(comes out) from the drain openings of the priming plugs without any accompanying air.

- emerges
- submerges
- merges
- primes

38. Ejectors don't have moving parts so .....and maintenance are minimal.

- drainage
- flow
- self-priming
- lubrication

39. ....occurs when something is in a worse state than before.

- leakage
- distribution
- abrasion
- deterioration

40. Slop .....is 4 meters.

- revolution
- pitch
- sounding
- output

41. Where tanks are arranged for either oil or ballast, a .....chest must be fitted in the pipeline so that only the ballast main or the oil transfer main is connected to the tank.

- perforated
- distribute
- change over
- mud

42. To .....is to stop.

- impede
- accumulate
- condensate
- discharge

43. Make a reversing test. This ensures that the starting valves blow .....any condensed water from the starting air and control air systems just before the manoeuvres.

- over
- off
- of
- up

44. It is expressed in degrees centigrade and is max 30 C. The lowest temperature at which the fuel will flow.

- ignition point
- flash point
- pour point
- carbon residue

45. Bilge suctions must be fitted with .....through which the water must pass on its way to the pump.

- strainers
- strum plates
- eductors
- wells

46. It contributes to air pollution. Its compounds may corrode the cylinder liners and piston rings.

- zinc
- vanadium
- sulphur
- water

47. Which is NOT TRUE? Ballast is taken on board in order to ...

- increase the list of the ship.
- alter the trim.
- improve manoeuvrability.
- improve stability of the ship.

48. All bilge suctions must be fitted with suitable .....which in the machinery space are mud boxes through which the water must pass on its way to the pump.

- strainers
- valves
- eductors
- chests

49. What reduces the efficiency of the centrifuge?

- special lubricants
- catalytic fines
- homogenizers
- vanadium and sodium

50. The anti-heeling system is used to minimize the .....of the ship.

- design
- condition
- list
- stability

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