

# B semester exam - retake February 2021

Choose the correct answer. You have 80 minutes. Submit your paper one minute before the end of the exam. Good luck.

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

1. They are not used where very high speeds are required.  
(1.5 Points)

- rotary pumps
- reciprocating pumps
- displacement pumps

2. It preheats the feeding water.  
(1.5 Points)

- Superheater
- Furnace
- Economizer

3. The reaction turbine is .....than the impulse turbine.  
(1.5 Points)

- more efficient
- slower
- faster

4. The 4-stroke Diesel Engine does not have a crosshead.  
(1 Point)

- False
- True

5. Steam engines are internal combustion engines.  
(1 Point)

- False
- True

6. The camshaft opens the valves with the help of the .....  
(1.5 Points)

- connecting rod
- piston rod
- push rod

7. The conventional 2- stroke Diesel Engine does not have ....  
(1.5 Points)

- scavenge box
- inlet valves
- piston rod

8. The Scotch boiler is used only for .....purposes, since it is less efficient than the water tube boiler.

(1.5 Points)

- auxiliary
- circulating
- generating

9. A gear-wheeled pump is an example of a .....pump.

(1.5 Points)

- displacement rotary
- displacement reciprocating
- centrifugal

10. A period of time between two events, a delay is a /an .....

(1.5 Points)

- lag
- emission
- malfunction

11. The turbocharger consists of a single turbine wheel, the .....of which is mounted on the same shaft as with the impeller of a centrifugal compressor.

(1.5 Points)

- rotor
- silencer
- turbine

12. In the final stroke of a 4-stroke Diesel Engine the exhaust gases are driven out.

(1 Point)

False

True

13. To cause to start is to .....

(1.5 Points)

detect

initiate

decrease

14. The .....rotates at high speed inside the pump casing of the centrifugal pump.

(1.5 Points)

vane

piston

impeller

15. In the reaction type turbine the steam is fed from the high-pressure line into the high-pressure turbine through a .....valve.

(1.5 Points)

throttle

feed check valve

safety

16. There are two types of steam turbines.

(1 Point)

True

False

17. Not affected by fire is ....

(1.5 Points)

fire fighting

fire extinguisher

fireproof

18. The boiler may have a .....which has a great number of small tubes and is used to heat the wet steam before it enters the main steam pipe which leads to the engines.

(1.5 Points)

superheater

feed water system

steam drum

19. In the boiler, the water .....serves as a reservoir of water.

(1.5 Points)

pipe

drum

tube

20. The oil gets rid of water and other harmful substances in a .....

(1.5 Points)

- davit
- cooler
- purifier

21. Boilers are used on board ships for producing .....

(1.5 Points)

- air
- steam
- water

22. The piston consists of the skirt, the pin and the .....

(1.5 Points)

- crown
- seat
- head

23. In the .....pump, the impeller is surrounded by a spiral case. It is the most common type of centrifugal pump.

(1.5 Points)

- volute
- regenerative
- diffuser

24. In .....pumps the liquid is forced through the pump casing by means of gears, screw, etc.

(1.5 Points)

- diffuser
- rotary
- reciprocating

25. The turbine .....require special attention. They support the weight of the rotor and are adjusted to maintain a close clearance between the stationary and rotating blades.

(1.5 Points)

- stators
- nozzles
- bearings

26. It is used for lowering lifeboats to the sea.

(1.5 Points)

- Launching gear
- Steering gear
- Turning gear

27. There are two types of steam engines, the reciprocating steam engine and the steam turbine.

(1 Point)

- True
- False

28. When a piece of machinery fails to function normally we have a/an .....  
(1.5 Points)

- disfunction
- malfunction
- unfunction

29. The main part of the reciprocating steam engine is the .....  
(1.5 Points)

- blade
- rotor
- piston

30. Ignition is .....  
(1.5 Points)

- drawing in
- squeezing
- firing

31. The chemical ..... valves are used for adding chemicals directly into the boiler.  
(1.5 Points)

- level
- dosing
- safety



32. We use it to handle the anchor.  
(1.5 Points)

- Windlass
- Capstan
- Steering gear

33. To .....is to be in motion, move around.  
(1.5 Points)

- circulate
- generate
- saturate

34. It controls the passage of the steam to the engines.  
(1.5 Points)

- Steam drum
- Feed check valve
- Main stop valve

35. In a two stroke Diesel Engine the piston rod is connected to the connecting rod with the ...  
(1.5 Points)

- connection pin
- crosshead pin
- crank pin

36. In the suction stroke when the piston reaches the ..., the cylinder is full of air and the inlet valve closes.

(1 Point)

TDC

BDC

37. The steam generated in the boiler passes into the steam engine which .....the heat energy into mechanical work.

(1.5 Points)

condenses

discharges

converts

38. In the reaction turbine the steam passes first through the stationary blades where it .....and with increased speed enters the rotating blades and turns the rotor.

(1.5 Points)

expands

decreases

condenses

39. Boiler .....are usually valves and gauges that are attached directly to the pressure parts of the boiler.

(1.5 Points)

tubes

mountings

indicators

40. In the impulse turbine, the steam from the .....is directed against the blades and turns the rotor.  
(1.5 Points)
- rim
  - shaft
  - nozzles
41. A single acting ram pump is a ....  
(1.5 Points)
- displacement reciprocating pump
  - displacement centrifugal pump
  - displacement rotary pump
42. During the .....stroke the intake valve is open and the piston is moving downwards. Air is drawn into the cylinder.  
(1.5 Points)
- combustion
  - suction
  - compression
43. The combustion control system of the marine boiler plants maintains .....steam pressure by controlling the flow of air and oil to the burner.  
(1.5 Points)
- prompt
  - constant
  - increased

44. In the compression stroke the fuel is sprayed into the cylinder by the fuel .....valve.  
(1.5 Points)
- injection
  - combustion
  - ignition
45. The water wall .....supplies the water wall with water.  
(1.5 Points)
- header
  - heater
  - cooler
46. When the temperature of the steam falls below permissible limits, .....takes place.  
(1.5 Points)
- condensation
  - concentration
  - evaporation
47. In the simple reciprocating steam engine the exhaust steam is condensed in a condenser, passes through a/an .....and is discharged by a service pump into a preheater.  
(1.5 Points)
- atomizer
  - boiler
  - deaerating feed tank

48. The valve .....are housed on the cylinder head.  
(1.5 Points)

- stems
- seats
- bearings

49. There are two main groups of pumps in maritime use. ....pumps and centrifugal pumps.  
(1.5 Points)

- Diffuser
- Displacement
- Reciprocating

50. The space in the boiler where the air and fuel oil mix and burn is the ...  
(1.5 Points)

- atomizer
- economizer
- furnace

51. The vane type of pump is a .....pump.  
(1.5 Points)

- centrifugal
- rotary
- reciprocating

52. Beside the steam engine there must be incorporated a boiler for the generation of steam.  
(1 Point)
- False
- True
53. In the compression stroke the piston is moving ..... and compresses the air.  
(1 Point)
- downwards
- upwards
54. We get distilled water from the .....
- (1.5 Points)
- evaporator
- air compressor
- incinerator
55. They reduce the rolling of the ship.  
(1.5 Points)
- Windlasses
- Fin stabilizers
- Capstans

56. When something is filled with water, it is .....  
(1.5 Points)

- saturated
- generated
- supplied

57. The .....or power stroke is the stroke which provides power for the propulsion of the ship.  
(1.5 Points)

- compression
- combustion
- exhaust

58. The .....in the turbocharger absorbs the noise of the vibration of its running components.  
(1.5 Points)

- impeller
- silencer
- casing

59. Centrifugal pumps can be with one impeller or they can be .....(with two or more impellers).  
(1.5 Points)

- multistage
- double-acting
- geared

60. The steam turbine consists of a rotor that has a set of curved .....  
(1.5 Points)

- stators
- blades
- tubes

61. In 2-stroke Diesel Engines one cycle of operation needs .....  
(1.5 Points)

- one revolution of the camshaft.
- two revolutions of the crankshaft.
- one revolution of the crankshaft.

62. A lobe pump is a .....pump.  
(1.5 Points)

- reciprocating displacement
- rotary displacement
- rotary diffuser

63. The conventional 2-stroke Diesel Engine does not have scavenge ports.  
(1 Point)

- True
- False



64. The regenerative type of pump is a .....pump.  
(1.5 Points)

- centrifugal
- rotary
- displacement

65. A pump is a device which is used to .....liquids from one point to another under pressure.  
(1.5 Points)

- transfer
- manoeuvre
- feed

66. Human body waste is treated biologically there.  
(1.5 Points)

- Incinerator
- Condenser
- Sewage treatment plant

67. The piston rod reciprocates into and out of the .....  
(1.5 Points)

- scavenge box
- stuffing box
- gear box

68. To remove water from the machinery space we use a ....  
(1.5 Points)

- service pump
- bilge pump
- feed water pump

69. Four- stroke Diesel Engines are slow speed engines.  
(1 Point)

- False
- True

70. On the compressor's side of the turbocharger there is a/an .....and a spiral casing, both of which contribute to further rising of the pressure of the compressed air.  
(1.5 Points)

- shaft
- inlet
- diffuser

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