

# Γ Εξάμηνο ΝΑΥΤΙΚΑ ΑΓΓΛΙΚΑ ΤΕΛΙΚΕΣ ΕΞΕΤΑΣΕΙΣ ΙΟΥΝΙΟΥ 2021

Διαλέξτε τη σωστή απάντηση. Μόνο μια είναι σωστή. Δεν παίρνουν όλες οι απαντήσεις την ίδια βαθμολογία. Έχετε 70 λεπτά για 63 ερωτήσεις. Το σύνολο των βαθμών είναι 100. Καλή επιτυχία

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1. Heating value is the amount of heat given off on complete combustion of one litre of fuel.

(1 Point)

True

False

2. Corrosion .....prevent the corrosion of metal surfaces by forming a tenacious oil film on them.

(2 Points)

inhibitors

dispersants

improvers

antioxidants

3. Correct lubrication of the engine is of great importance because .....  
lubrication would lead to seizing of bearings and sticking of the engine.  
(2 Points)

- fortified
- inadequate
- recommended
- enhanced

4. To get rid of, to remove is to .....  
(1.5 Points)

- effect
- purchase
- eliminate

5. To rub between two metal surfaces is .....  
(2 Points)

- corrosion
- boost
- seizure
- friction

6. The acronym CCAI stands for .....  
(1.5 Points)

- cracked carbon atom index
- calculated carbon aromaticity index
- calculated calcium aroma indication

7. SAE 10 to SAE 20 oils are very thick and are suitable for low temperatures.

(1 Point)

False

True

8. The cylinder oil service tank is .....the cylinder oil storage tank.

(1 Point)

smaller than

the same as

bigger than

9. It is a measure of the density or weight of the fuel. It also serves as a rough check on viscosity, carbon content and other qualities.

(2 Points)

heating value

viscosity

pour point

specific gravity

10. ....is a kind of residue.

(2 Points)

Distillate

Sediment

Froth

Grinding

11. The Society of Automotive .....SAE has classified oil viscosity from SAE 10 to SAE 250.

(1 Point)

- Engineers
- Engines

12. Heavy Fuel Oil needs heating to decrease viscosity and purifying to eliminate water and dirt .....

(1.5 Points)

- distillate
- sludge
- samples
- particles

13. ....in the lubricating oil improve its quality.

(2 Points)

- Preventers
- Additives
- Inhibitors
- VI improvers

14. The .....neutralizing capacity of oil is represented by its total base number value.

(1.5 Points)

- acid
- base
- alkaline

15. Lubrication keeps the metal surfaces clean due to the .....property of lubricating oil.

(2 Points)

- anticorrosive
- antifouling
- fortified
- corrosive

16. The heating value of a fuel is commonly expressed in .....

(1 Point)

- r.p.m.
- p.p.m.
- b.t.u.

17. Non combustible solid material in the fuel which scratches the rubbing surfaces is .....

(1.5 Points)

- sulphur
- ash
- carbon

18. ....keep sludge, carbon and other deposits suspended in the oil.

(2 Points)

- Dispersants
- Wear preventers
- Detergents
- Depressants

19. HFO is used in manoeuvring.

(1 Point)

False

True

20. The higher the viscosity of a fuel oil, the more heating it needs to reduce it.

(1 Point)

False

True

21. To spread all over is to .....

(1.5 Points)

disperse

stall

seize

22. Mineral oils are fortified with chemicals which .....their functional properties that the engine requires.

(2 Points)

neutralize

disperse

enhance

prevent

23. In the settling tanks, the fuel is constantly heated to .....the viscosity-grade and thus quicken the separation of fuel from water and impurities.

(1.5 Points)

- lower
- increase
- maintain

24. Sticking property, adhesion is .....

(1.5 Points)

- fouling
- seizing
- tenacity

25. Lubrication acts as a cooling means of the metal surfaces because it ..... a considerable amount of heat which is released from friction.

(2 Points)

- absorbs
- spreads
- fortifies
- settles

26. Discharge of gases is .....

(2 Points)

- scoring
- emission
- rust
- corrosion

27. How do we call any fuel whose grade lies between HFO and DO?  
(1 Point)

- Intermediate Fuel Oil
- Marine Diesel Oil
- Distillate

28. Thick particles sink down in the .....tank.  
(1.5 Points)

- buffer
- storage
- settling

29. The lowest temperature at which the oil will flow is .....

- (1.5 Points)
- viscosity
  - flash point
  - pour point

30. The pressure chamber of the fuel injector is a hollow space inside the assembly which ends to a .....seat where the injector needle ends too.  
(1.5 Points)

- spherical
- tapered
- round



31. Lubrication assists the piston rings in .....the combustion chamber.  
(1.5 Points)

- stalling
- seizing
- sealing

32. Which of the following words is not a synonym to the others?  
(2 Points)

- distil
- refine
- purify
- prepare

33. The process of improving quality is .....  
(1.5 Points)

- treatment
- emission
- accumulation
- elimination

34. A fuel injector consists of three main parts. The injector holder, the needle with its .....and return spring and the nozzle assembly.  
(1.5 Points)

- seat
- head
- stem

35. The measure of resistance of the fuel to movement.

(2 Points)

- Viscosity
- Flash point
- Cloud point
- Pour point

36. What does the viscosity regulator do?

(2 Points)

- It adjusts the temperature of fuel.
- It adjusts the flow of the water.
- It allows the used oil from the engine to be mixed.
- It allows the water and thick particles to sink down.

37. Excess is .....

(1.5 Points)

- boost
- surplus
- dispersal

38. To .....is to protect against heat dispersal.

(2 Points)

- regulate
- insulate
- emit
- purify

39. Major damage of bearing due to insufficient lubrication is .....  
(1.5 Points)

- fouling
- seizing
- enhancement

40. The fuel is sprayed into the cylinder by the .....valve.  
(1.5 Points)

- injection
- ignition
- inlet

41. Which of the following words is not a synonym to the others?  
(2 Points)

- froth
- residue
- deposit
- sediment
- sludge

42. What does the booster pump do?  
(2 Points)

- It raises the pressure of the fuel.
- It allows water and thick particles to sink down.
- It adjusts the temperature of the fuel.
- It discharges fuel.

43. During bunkering, the .....taken are sealed for later verification of supplied product quality in case a dispute arises.

(1.5 Points)

- sediments
- residues
- samples
- emissions

44. Duty, function is .....

(1.5 Points)

- tenacity
- task
- residue

45. The pumping .....is up to 6000m<sup>3</sup>/h.

(2 Points)

- pace
- rate
- rhythm

46. The higher the water and sediment value is, the more possible it is to cause erratic combustion and corrosion.

(1 Point)

- True
- False

47. From the service tank the oil is supplied to lubricators by gravity and is led through drillings onto the liner surface where grooves .....it circumferentially.

(1.5 Points)

- distribute
- attribute
- separate

48. Bearings are lubricated with

(1 Point)

- cylinder oil
- circulating lube oil
- turbine oil

49. Lubrication of the piston and piston rings is done with .....

(1 Point)

- turbine oil
- cylinder oil
- circulating lube oil

50. An indication of the quality of ignition of the fuel is called .....

(2 Points)

- ignition index
- CCAI
- ignition number
- cetane number

51. The quality of fuel is expressed by this word, which basically indicates how well a fuel will burn in the cylinders.

(1.5 Points)

- Crude oil
- Grade
- Viscosity

52. The main function of the fuel injectors is to inject and ..... in a form of spray a certain amount of fuel in the combustion chamber.

(1.5 Points)

- dismantle
- stall
- disperse

53. ....keep the engine parts clean of deposits, especially carbon deposits.

(2 Points)

- Corrosion inhibitors
- Antioxidants
- Detergents
- Dispersants

54. Which of the following words is not a synonym to the others  
(2 Points)

- contain
- define
- comprise
- consist
- include

55. In most fuel systems, the settling tanks and daily service tanks are also called .....  
tanks.  
(2 Points)

- gravity
- fuel oil drain
- double-bottom
- sludge

56. ....is oxidation leading to rust.  
(2 Points)

- Emission
- Scoring
- Corrosion
- Grinding

57. High water content in the fuel does not affect combustion whatsoever.  
(1 Point)

- True
- False

58. Additives can help when there is major .....of deposits on the piston crown and cylinder liner.

(1.5 Points)

- accumulative
- accumulation
- accumulated

59. The temperature at which the fuel vapours produce a flash when a flame is applied is.....

(1.5 Points)

- heating value
- pour point
- cetane number
- flash point

60. Antioxidant additives in the lube oil prevent its .....

(1.5 Points)

- oxidation
- oxidize
- oxidity
- oxidization

61. Secondary is .....

(1.5 Points)

- subordinate
- piloting
- precise



62. In the fuel oil system, from the viscosity regulator the fuel passes through a .....which filters the fuel.

(1.5 Points)

- strainer
- separator
- regulator

63. In a typical fuel oil system, the Diesel is a refined oil and does not pass through a settling tank, but instead it passes through a centrifuge for .....and then enters the DO tank.

(1.5 Points)

- purity
- purify
- purifier
- purification

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