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Exam Title : Chapter MEK 1

1. Boiler is related to \_\_\_\_\_ .

- A. Steam Generation
- B. Human waste
- C. Storing Vegetables
- D. Steering

Right Answers : A

2. Which of the following is bottom most part of a diesel engine?

- A. Connecting Rod
- B. Piston
- C. Turbo charger
- D. Exhaust valve

Right Answers : A

3. Main Engine is part of the \_\_\_\_\_ system

- A. Ballast
- B. Electrical
- C. Propulsion
- D. Bilge

Right Answers : C

4. Domestic Fridge is related to \_\_\_\_\_ .

- A. Human waste
- B. Steering
- C. Starting of Main Engine
- D. Storing Vegetables

Right Answers : D

5. Which of the following is top most part of a diesel engine?

- A. piston
- B. cylinder head
- C. crank shaft
- D. crankcase door

Right Answers : B

6. Which of the following is lower most part of a diesel engine?

- A. turbo charger
- B. exhaust valve
- C. bed plate
- D. piston

Right Answers : C

7. Which of the following is within the engine room?

- A. paint storage room
- B. CO2 Room
- C. cargo pump room

D. purifiers room

Right Answers : D

8. Which of the following is not within the engine room?

- A. fresh water generator
- B. fire pump
- C. fridge room
- D. refrigeration machinery

Right Answers : C

9. Which of the following is not within the engine room?

- A. boiler
- B. mooring winch
- C. air compressor
- D. generator engine Right Answers : B

10. Which of the following is not a job of an engine room rating?

- A. assist in watchkeeping
- B. painting engine room
- C. assist in maintenance work
- D. operate main engine Right Answers : D

11. Which of the following is job of an engine room rating?

- A. start and stop engine
- B. overhaul air compressor
- C. assist in maintenance work
- D. report to bridge about engine condition Right Answers : C

12. Boiler is related to \_\_\_\_\_.

- A. Storing Vegetables
- B. Human waste
- C. Steam Generation
- D. Steering

Right Answers : C

13. Sewage Treatment Plant is related to \_\_\_\_\_.

- A. Starting of Main Engine
- B. Steering
- C. Human waste
- D. Storing Vegetables

Right Answers : C

14. Identify the machinery in the following picture.



- A. A Valve
- B. Water Cooler
- C. Ballast pump
- D. Purifier

Right Answers : A

15. Identify the machinery in the following picture.



- A. Purifier
- B. Water Cooler
- C. Ballast pump
- D. Cargo Oil Pump Turbine

Right Answers : B

16. Identify the machinery in the following picture.



- A. Crankcase relief valves on Main Engine
- B. Air compressor
- C. Oil Filter
- D. Cargo Oil Pump Turbine

Right Answers : C

17. Identify the machinery in the following picture.



- A. Ballast pump
- B. Cargo Oil Pump Turbine

- C. Air compressor
- D. Purifier

Right Answers : D

18. Identify the machinery in the following picture



- A. Purifier
- B. Air compressor
- C. Cargo Oil Pump Turbine
- D. Ballast pump

Right Answers : B

19. Identify the machinery in the following picture



- A. Air compressor
- B. Cargo Oil Pump Turbine
- C. Ballast pump
- D. Auxiliary Engine

Right Answers : D

20. The given image is of



- A. Globe valves
- B. Crankcase pressure relief valves
- C. Air compressor valves
- D. Cylinder head valves

Right Answers : B

21. The given image is of



- A. Narrow escape
- B. Broad escape
- C. Emergency escape
- D. Engine room space

Right Answers : C

22. What is not a system

- A. Boiler
- B. Purifier
- C. Air compressor
- D. Main Engine

Right Answers : D

Exam Title : Chapter MEK 2

1. A "BOLT" has

- A. Hexagonal head and threads at other end
- B. Thread at both ends
- C. Slotted head and threads at other end
- D. Double pitch threads

Right Answers : A

2. "Cuts" are caused by

- A. Flat spanners
- B. Sharp objects
- C. Hammers
- D. Blunt chisels

Right Answers : D

3. A DIE can be is used to make threads on a pipe

- A. True
- B. False

Right Answers : A

4. For lifting a heavy load, you will use

- A. Eye bolt
- B. Air Cylinder
- C. Hydraulic Jack
- D. Chain Block

Right Answers : D

5. A TAP is used to make internal threads inside a drilled hole

- A. True
- B. False

Right Answers : A

6. A "STUD" has

- A. Threads at one end with a slot at the other end
- B. Double pitch threads
- C. Hexagonal head and thread at the other end
- D. Thread at both ends

Right Answers : D

7. What is the name of the item in the given picture?





- A. Chain sling
- B. Chain block
- C. Pulley block
- D. Ratchet block

Right Answers : B

8. The following set of tools are used for making holes in



- A. Steel sheet
- B. Thin Plywood
- C. Rubber sheet
- D. Plastic sheets

Right Answers : C

9. Identify the following Tool



- A. Outside calliper
- B. Inside calliper
- C. Jaw calliper
- D. Vernier calliper

Right Answers : A

10. Identify the following Tool



- A. Digital Vernier Calliper
- B. Measuring Scale
- C. Depth Gauge
- D. Dial Gauge

Right Answers : A

11. Identify the following Tool



- A. Ball Pein hammer
- B. Sledge hammer
- C. Soft hammer
- D. Rubber Mallet

Right Answers : D

12. Identify the following tool



- A. Open jaw spanner
- B. Flat spanner
- C. Open ended spanner
- D. Crowfoot spanner

Right Answers : D

13. Identify the following Tool



- A. Adjustable Micrometer
- B. Dial calliper
- C. Thickness Gauge
- D. Vernier calliper

Right Answers : D

14. Identify the following Tool



- A. Ratchet block
- B. Pulley block
- C. Swivel block
- D. Chain block

Right Answers : B

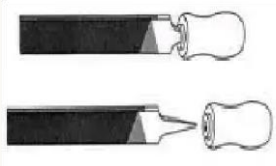
15. You CANNOT use the following tool for Driving screws



- A. False
- B. True

Right Answers : A

16. Identify the following picture



- A. Half Round fie
- B. Rasp file
- C. Flat File
- D. Reamer

Right Answers : C

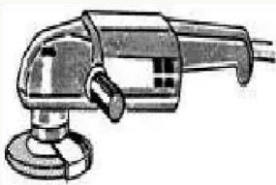
17. Identify the following Tool



- A. Ball Pein Hammer
- B. Soft Hammer
- C. Claw Hammer
- D. Sledge Hammer

Right Answers : A

18. What is the equipment used for?



- A. Sand blasting
- B. Surface grinding
- C. Welding flat pieces
- D. Cutting pipes

Right Answers : B

19. You can use the following tool for lifting heavy parts



- A. False
- B. True

Right Answers : B

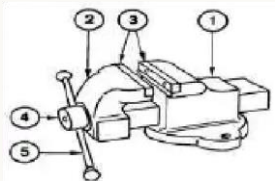
20. Identify the following Tool



- A. Chain Spanner
- B. Stubby
- C. Slogging spanner
- D. Ring Spanner

Right Answers : C

21. Identify the following picture



- A. C Clamp
- B. Leg vice
- C. Bench Vice
- D. Pipe Grip

Right Answers : C

22. Identify the following Tool



- A. Ball Pein hammer
- B. Chipping hammer
- C. Cross Pein hammer
- D. Soft hammer

Right Answers : C

23. The following tool is called socket spanner set



- A. False
- B. True

Right Answers : B

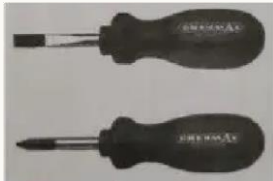
24. The given picture is of



- A. Scoop thermometer
- B. Digital Thermometer
- C. Anemometer
- D. Psychrometer

Right Answers : A

25. The given picture is of



- A. Stubby
- B. Awl
- C. Reamer
- D. Nose Plier

Right Answers : A

26. What is the name of the following tool?



- A. Crowfoot spanner
- B. Adjustable spanner
- C. Hammer
- D. Awl

Right Answers : B

27. What is the name of the following tool?



- A. pipe wrench
- B. adjustable spanner
- C. combination spanner
- D. Crowfoot spanner

Right Answers : A

28. What is the name of the following tool?



- A. double ended offset ring spanner
- B. adjustable spanner
- C. combination spanner
- D. flare nut spanner

Right Answers : A

Exam Title : Chapter MEK 4

1. The unit of Power is
- A. Cubic meters or Liters
  - B. Kilowatt
  - C. Minutes
  - D. Kg/cm<sup>2</sup> or Bar

Right Answers : B

2. The instrument Needed/Provided for Measuring Length is
- A. Steel scale
  - B. Depth gauge
  - C. Thermometer
  - D. Micrometer

Right Answers : A

3. The instrument Needed/Provided for Measuring Gearbox Oil Level is
- A. Micrometer
  - B. Depth gauge
  - C. Dual pressure gauge
  - D. Sight Glass

Right Answers : D

4. Bar is unit for

- A. pressure
- B. temperature
- C. mass
- D. length

Right Answers : A

5. Unit of electrical current is

- A. ampere
- B. volt
- C. ohm
- D. watt

Right Answers : A

6. Sounding tape is use for checking

- A. length
- B. water level in the tank
- C. oil level in the gear box
- D. noise level

Right Answers : B

7. Which instrument is used for centering an object on the lathe chuck

- A. micrometer
- B. vernier callipers
- C. steel scale
- D. dial gauge

Right Answers : D

8. Which instrument is used measuring diameter of circular rod

- A. steel scale
- B. micrometer
- C. measuring tape
- D. dial gauge

Right Answers : B

9. Pyrometers are commonly used for

- A. exhaust temperature
- B. cooling water
- C. lubricating oils
- D. lubricating oil pressure

Right Answers : A

10. The unit of Tank Capacity is

- A. Cubic meters or Liters
- B. Kilowatt
- C. Kg/cm<sup>2</sup> or Bar
- D. Minutes

Right Answers : A

11. The unit of Temperature is

- A. Degree Centigrade

- B. Kg/cm<sup>2</sup> or Bar
- C. Cubic meters or Liters
- D. Kilowatt

Right Answers : A

12. The Function of a Level Gauge is to

- A. Indicate Level
- B. Indicate pressure
- C. Pressurize liquids
- D. Separate solid and liquids

Right Answers : A

13. The instrument Needed/Provided for Measuring Diameter is

- A. Micrometer
- B. Dual pressure gauge
- C. Depth gauge
- D. Sight Glass

Right Answers : A

14. The unit of Pressure is

- A. Cubic meters or Liters
- B. Kg/cm<sup>2</sup> or Bar
- C. Minutes
- D. Kilowatt

Right Answers : B

15. The unit of Sounding is

- A. Meters and Centimeters
- B. Kilowatt
- C. Minutes
- D. Ampere

Right Answers : A

16. What is the name of the following tool?



- A. vacuum gauge
- B. pressure gauge
- C. Hygrometer
- D. Pyrometer

Right Answers : D

17. What is the name of the following tool?





- A. temperature gun
- B. pressure gauge
- C. Pressure Regulator
- D. Thermometer

Right Answers : D

18. The given picture is of a



- A. Thermometer
- B. Pyrometer
- C. Sight glass
- D. Pocket Thermometer

Right Answers : C

19. The given picture is of a



- A. Vacuum Gauge
- B. Pressure Regulator
- C. Compound Gauge
- D. Pressure Gauge

Right Answers : D

20. The given picture is of a



- A. Pressure regulator
- B. Compound Gauge
- C. Vacuum Gauge
- D. Pressure Gauge

Right Answers : A

21. The given picture is of a



- A. Pressure Gauge
- B. Vacuum Gauge
- C. Pressure regulator
- D. Compound Gauge

Right Answers : B

22. The given picture is of a



- A. Sight glass
- B. Pyrometer
- C. Pocket Thermometer
- D. Gauge Glass

Right Answers : C

23. Given picture is of



- A. Pressure Reducer
- B. Pyrometer
- C. Infrared Temperature sensor
- D. Humidifier

Right Answers : C

24. The unit of sea distance is

- A. Mile
- B. Nautical mile
- C. Kilometre
- D. Knot

Right Answers : B

25. Select the correct reading



- A. 27 bar
- B. 28 psi
- C. 29psi
- D. 28 bar

Right Answers : B

26. Select the correct reading



- A. 83psi
- B. 84 psi
- C. 85psi
- D. 84 bar

Right Answers : B

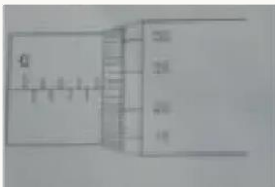
27. Select the correct reading



- A. 7000kpa
- B. 6000kpa
- C. 6000psi
- D. 4500psi

Right Answers : B

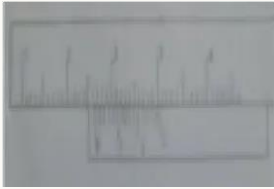
28. Select the correct reading



- A. 5.23mm
- B. 5.72mm
- C. 4.73mm
- D. 4.23mm

Right Answers : D

29. Select the correct reading



- A. 15.14mm
- B. 15.10mm
- C. 16.14mm
- D. 16.12mm

Right Answers : C

30. Select the correct reading



- A. 1.28bar
- B. 1.24 kg/Cm2
- C. 1.28 kg/cm2
- D. 1.26 kg/cm2

Right Answers : C

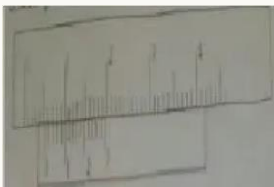
31. Select the correct reading



- A. 0.8 bar
- B. 0.8 kg/cm2
- C. 0.82 kg/cm2
- D. 0.82psi

Right Answers : B

32. Select the correct reading

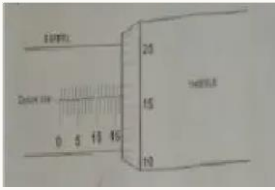


- A. 5.10mm
- B. 5.14mm
- C. 5.12mm

D. 5.15mm

Right Answers : B

33. Select the correct reading.



A. 16.12mm

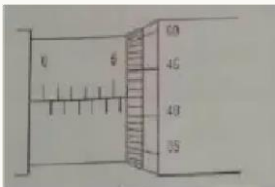
B. 16.66mm

C. 16.15mm

D. 16.16mm

Right Answers : B

34. Select the correct reading



A. 5.90mm

B. 5.92mm

C. 5.93mm

D. 5.96mm

Right Answers : B

35. Given pump is used for



A. Sea water

B. Fuel oil

C. Lube oil

D. Fresh water

Right Answers : A

36. The given picture is of



A. Reamer

- B. Awl
- C. Screw Driver
- D. Hammer

Right Answers : B

37. Given picture is of



- A. Stud
- B. Reamer
- C. Screw
- D. Bolt

Right Answers : B

38. the given picture is of



- A. Compound gauge
- B. Vacuum Gauge
- C. Pressure regulator
- D. Pressure Gauge

Right Answers : A

Exam Title : Chapter MEK 5

1. Most common use of Fire hydrant is \_\_\_\_\_
- A. Gauge glass
  - B. Deck water line
  - C. Ballast line
  - D. Steam line

Right Answers : B

2. The Function of Valves is to
- A. Control Flow
  - B. Store Air
  - C. Ventilation
  - D. Remove Solid impurities from liquids

Right Answers : A

3. The Function of a Centrifugal Separator is to
- A. Pressurize liquids
  - B. Separate solid and liquids
  - C. Trap solid particles
  - D. Pressurize air or gases

Right Answers : B

4. What Maintenance task should be carried out on Diesel Generator Engine
- A. Basket cleaning & wire mesh inspection
  - B. Cleaning, varnishing, baking and insulation check
  - C. Furnace & Tubes Cleaning & Inspection
  - D. Cylinder head with inlet and exhaust valves overhaul and inspection

Right Answers : D

5. Type of pump used for sea water cooling on board is
- A. Centrifugal pump
  - B. Reciprocating pump
  - C. Screw pump
  - D. Axial flow pump

Right Answers : A

6. Impeller of centrifugal pump is fitted to
- A. A Shaft
  - B. A gland
  - C. The motor
  - D. The casing

Right Answers : A

7. Fresh water generator is related to \_\_\_\_\_.
- A. Evaporator
  - B. Steering
  - C. Storing Vegetables
  - D. Starting of Main Engine

Right Answers : A

8. A cooler is a type of \_\_\_\_\_
- A. Compressor
  - B. Heat exchanger
  - C. Air conditioner
  - D. Machine

Right Answers : B

9. Which of the following is not a type of 'Pump'?
- A. Gear
  - B. Non return
  - C. Reciprocating
  - D. Screw

Right Answers : B

10. Function of a pump is to
- A. Control flow of fluids
  - B. Purify fluids
  - C. Pressurize fluids
  - D. Inject fuel

Right Answers : C

11. The exhaust gas economizer on a ship is a part of the \_\_\_\_\_
- A. Turbo charging
  - B. Oil fired boiler
  - C. Steam Generation System
  - D. Hot water system

Right Answers : C

12. Most common use of Non Return valve is \_\_\_\_\_
- A. Ballast line
  - B. Bilge line
  - C. Gauge glass
  - D. Steam line

Right Answers : B

13. The function of "HEAT EXCHANGERS" is to
- A. Store air
  - B. Pressurise fluids
  - C. Ventilation
  - D. Cooling or heating

Right Answers : D

14. What Maintenance task should be carried out on Filters
- A. Furnace & Tubes Cleaning & Inspection
  - B. Basket cleaning & wire mesh inspection
  - C. Cylinder head with inlet and exhaust valves overhaul and inspection
  - D. Cleaning, varnishing, baking and insulation check

Right Answers : B



15. The Function of Pumps is to
- A. Remove Solid impurities from liquids
  - B. Control Flow
  - C. Pressurize Fluids
  - D. Ventilation

Right Answers : C

16. On board ship a fire pump is a type of
- A. Centrifugal
  - B. Gear
  - C. Reciprocating
  - D. Screw

Right Answers : A

17. Most common use of Butterfly valve is \_\_\_\_\_
- A. Steam line
  - B. Deck water line
  - C. Ballast line
  - D. Gauge glass

Right Answers : C

18. Purifiers are related to \_\_\_\_\_.
- A. Steering
  - B. Steam Generation
  - C. Oil
  - D. Evaporator

Right Answers : C

19. On board ship a bilge pump is a type of
- A. Centrifugal Pump
  - B. Screw Pump
  - C. Gear Pump
  - D. Reciprocating Pump

Right Answers : D

20. What Maintenance task should be carried out on Oil fired Boilers
- A. Cleaning, varnishing, baking and insulation check
  - B. Furnace & Tubes Cleaning & Inspection
  - C. Basket cleaning & wire mesh inspection
  - D. Cylinder head with inlet and exhaust valves overhaul and inspection
- Right Answers : B

21. The instrument Needed/Provided for Measuring Pressure in Boiler is
- A. Depth gauge
  - B. Pressure Regulator
  - C. Pressure gauge
  - D. Sight Glass

Right Answers : C

22. A gear pump is most suited for  
A. Water

- B. Gas
- C. Oil
- D. Air

Right Answers : C

23. "CAM OPERATED" is an actuator for \_\_\_\_\_

- A. Gate Valve
- B. Exhaust Valve
- C. Safety Valve
- D. Globe Valve

Right Answers : B

24. Centrifugal Pump is a part of the \_\_\_\_\_ system.

- A. Bilge
- B. Propulsion
- C. Fuel oil
- D. Ballast

Right Answers : D

25. Main function of a Purifier on a ship is to

- A. Clean bilge and ballast water before discharging
- B. Purify fuels and lubricating oils
- C. Remove human waste before discharging the water
- D. Clean air before it enters diesel engine

Right Answers : B

26. The Function of a Valve is to

- A. Pressurize air or gases
- B. Pressurize liquids
- C. Indicate pressure
- D. Control flow of liquids or gases

Right Answers : D

27. What Maintenance task should be carried out on Valves

- A. Furnace & Tubes Cleaning & Inspection
- B. Inspection, grinding and gland packing renewal
- C. Cylinder head with inlet and exhaust valves overhaul and inspection
- D. Basket cleaning & wire mesh inspection

Right Answers : B

28. Which of the following is used to check water level in the boiler?

- A. Blow down cock
- B. Feed water valve
- C. Indicator valve
- D. Gauge glass

Right Answers : D

29. What is the common name for item used for preventing leakage from between pipe flanges?
- A. Joint
  - B. Lagging

- C. Washer
- D. Packing

Right Answers : A

30. "SPRINGS" is an actuator for \_\_\_\_\_

- A. Safety Valve
- B. Gate Valve
- C. Ball Valve
- D. Turbo Charger

Right Answers : A

31. Boiler is a part of the \_\_\_\_\_ system.

- A. Bilge
- B. Steam generation and distribution
- C. Propulsion
- D. Ballast

Right Answers : B

32. Quick Closing Valves are fitted on

- A. Ballast tanks
- B. Generator engine
- C. Air Bottles
- D. Fuel tanks

Right Answers : D

33. Most common use of Spring loaded valve is \_\_\_\_\_

- A. CO2 line
- B. Steam line
- C. Pressure release
- D. Deck water line

Right Answers : C

34. Most common use of Globe valve is \_\_\_\_\_

- A. Gauge glass
- B. Ballast line
- C. Steam line
- D. Deck water line

Right Answers : C

35. The Function of "FILTERS" is to

- A. Store Air
- B. Remove Solid impurities from fuels
- C. Ventilation
- D. Control Flow

Right Answers : B

36. "LEVERS/HANDLES" is an actuator for \_\_\_\_\_

- A. Safety Valve
- B. Gate Valve
- C. Glove Valve
- D. Butterfly Valve / Ball Valve

Right Answers : D

37. Reciprocating Pump is a part of the \_\_\_\_\_ system.

- A. Propulsion
- B. Bilge
- C. Fuel oil
- D. Ballast

Right Answers : B

38. What Maintenance task should be carried out on Pumps

- A. Basket cleaning & wire mesh inspection
- B. Cylinder head with inlet and exhaust valves overhaul and inspection
- C. Cleaning, varnishing, baking and insulation check
- D. Impeller, wear rings and rotor assembly inspection

Right Answers : D

39. Oil cargo is discharged from tankers using

- A. Screw pump
- B. Gear pump
- C. Centrifugal pump
- D. Vane type pump

Right Answers : C

40. "HYDRAULIC DEVICES" is an actuator for \_\_\_\_\_

- A. Relief Valves
- B. Safety Valve
- C. Ball Valve
- D. Exhaust Valve

Right Answers : D

41. Most common use of Cock is found in \_\_\_\_\_

- A. Deck water line
- B. Gauge glass
- C. Ballast line
- D. Steam line

Right Answers : B

42. Purifier is a part of the \_\_\_\_\_ system.

- A. Propulsion
- B. Bilge
- C. Ballast
- D. Fuel oil

Right Answers : D

43. The Function of a pumps is to

- A. Pressurize liquids

- B. Trap solid particles
- C. Separate solid and liquids
- D. Pressurize air or gases

Right Answers : A



44. Which of the following is not a 'Heat Exchanger'?

- A. Oil heater
- B. Air cooler
- C. Fuel injector
- D. Fridge condenser

Right Answers : C

45. Steam from a boiler is used for

- A. Condenser
- B. Safety valve
- C. Fuel Oil Heaters
- D. Feed tank

Right Answers : C

46. The instrument Needed/Provided for Measuring water level in boiler is

- A. Depth gauge
- B. Micrometer
- C. Gauge Glass
- D. Sight Glass

Right Answers : C

47. "HAND WHEELS" is an actuator for\_\_\_\_\_

- A. Ball Valve
- B. Safety Valve
- C. Gate Valve / Globe Valve
- D. Turbo Charger

Right Answers : C

48. Main Sea Water Pump used in Engine Room is a

- A. Centrifugal type
- B. Gear type
- C. Screw type
- D. Reciprocating type

Right Answers : A

49. Pump most commonly used for L.O. system of generator engines is \_\_\_\_\_ type.

- A. Screw
- B. Reciprocating
- C. Vane
- D. Gear

Right Answers : D

50. "SOLENOID" is an actuator for\_\_\_\_\_

- A. Electrically Operated
- B. Safety Valve
- C. Turbo Charger

D. Gate Valve

Right Answers : A

51. Boiler is related to \_\_\_\_\_ .

A. Steering

- B. Storing Vegetables
- C. Human waste
- D. Steam Generation

Right Answers : D

52. Fresh water generator on the ships produces

- A. Sea water from fresh water
- B. Sea water from fresh water
- C. Fresh water from sea water
- D. Clean water from bilge water

Right Answers : C

53. During operation, the inner parts of a centrifugal pump

- A. Reciprocates
- B. Oscillates
- C. Remain stationary
- D. Rotates

Right Answers : D

54. Most dangerous aspect of oil fired boilers operation is

- A. Fuel oil contamination with water
- B. Chocking of water level Gauge-glasses
- C. Black Smoke
- D. White Smoke

Right Answers : B

55. How many safety valves are provided on a steam boiler

- A. Four
- B. One
- C. Two
- D. Three

Right Answers : C

56. The Function of a Filter is to

- A. Trap solid particles
- B. Pressurize air or gases
- C. Separate solid and liquids
- D. Pressurize liquids

Right Answers : A

57. How many gauge-glasses are provided on an oil fired boiler

- A. One-glass type
- B. Two-glass type
- C. One-Electronic type
- D. One-Remote type

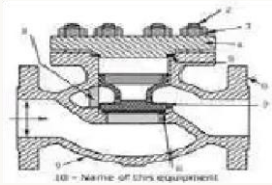
Right Answers : B

58. The function of "PURIFIER" is to
- A. Remove solid impurities
  - B. Remove solid impurities from water
  - C. Pressurise Fluids

D. Store Air

Right Answers : A

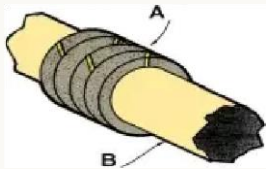
59. Identify the following part



- A. Check Valve Globe type
- B. Globe Valve
- C. Ball Type check valve
- D. Ball Valve

Right Answers : A

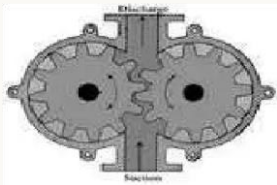
60. Identify the Items "A" shown in the diagram



- A. Packing Ring
- B. Gland Packing
- C. Globe Valve
- D. Oil Purifier

Right Answers : A

61. Identify the following pump



- A. Screw pump
- B. Gear pump
- C. Centrifugal pump
- D. Reciprocating pump

Right Answers : B

62. Identify the following part



- A. Globe Valve
- B. Gate Valve
- C. Multi port Cock
- D. Butterfly valve

Right Answers : B

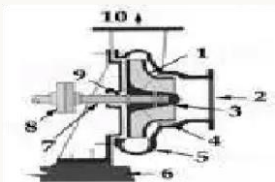
63. Identify the following part



- A. Gate Valve
- B. Globe Valve
- C. Butterfly valve
- D. Multi port Cock

Right Answers : B

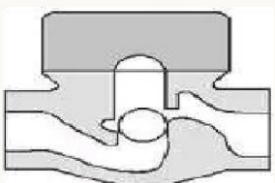
64. Identify the following pump



- A. Screw pump
- B. Gear pump
- C. Centrifugal pump
- D. Reciprocating pump

Right Answers : C

65. Identify the following part

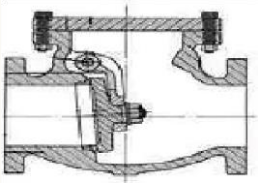


- A. Check Valve Globe type

- B. Globe Valve
- C. Ball Type check valve
- D. Ball Valve

Right Answers : C

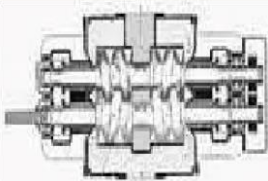
66. The valve shown below is a Swing check valve



- A. False
- B. True

Right Answers : B

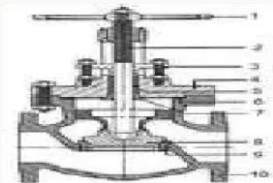
67. Identify the following pump



- A. Gear pump
- B. Centrifugal pump
- C. Reciprocating pump
- D. Screw pump

Right Answers : D

68. Identify the following part



- A. Check Valve Globe type
- B. Screw down non return valve
- C. Ball Type check valve
- D. Globe Valve

Right Answers : B

69. The valve shown below is a Storm valve



- A. False
- B. True

Right Answers : B

70. Identify the following part



- A. Metal Gasket
- B. Steam gasket
- C. Flange
- D. Rubber Gasket

Right Answers : D

71. Identify the following part



- A. Ball Valve
- B. Gate Valve
- C. Globe Valve
- D. Butterfly valve

Right Answers : D

72. Identify the following part



- A. Butterfly valve



- B. Ball Valve
- C. Check Valve Globe type
- D. Globe Valve

Right Answers : B

73. Macerator pump is a component of
- A. Hydrophore plant
  - B. Bilge plant
  - C. Sewage plant
  - D. Fresh water plant

Right Answers : C

74. Given picture is of which equipment



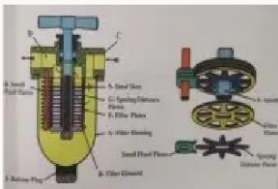
- A. Fresh water Generator
- B. Hydrophore
- C. Oily water separator
- D. Centrifugal separator

Right Answers : C

75. Which is not the part of Fridge & Air conditioning system
- A. Evaporator
  - B. Condenser
  - C. Compressor
  - D. Economiser

Right Answers : D

76. The given below components are of



- A. Auto clean nozzle
- B. Auto clean filter
- C. Auto clean pump
- D. Auto clean dryer

Right Answers : B

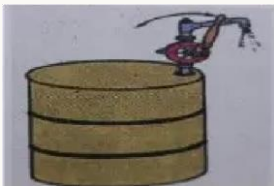
77. The given picture is of



- A. Pneumatic air gun
- B. Pneumatic pump
- C. Pneumatic filter
- D. Pneumatic strainer

Right Answers : A

78. The given Hand pump is of the following type



- A. Rotating
- B. Oscillating
- C. Reciprocating
- D. Circulating

Right Answers : C

79. Main function of a Purifier on a ship is to

- A. Clean air before it enters diesel engine
- B. Purify fuels and lubricating oils
- C. Clean bilge and ballast water before discharging
- D. Remove human waste before discharging the water

Right Answers : B

80. Given picture is of



- A. Auto washer
- B. Auto clean filter
- C. Auto refrigerator
- D. Auto clean dryer

Right Answers : B

81. Domestic Fridge is related to \_\_\_\_\_.

- A. Starting of Main Engine

B.

Steering

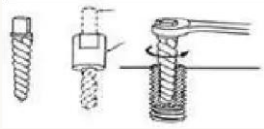
C.

Human waste

D. Storing Vegetables

Right Answers : D

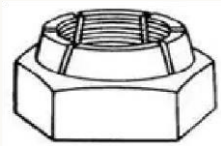
82. Identify the following Equipment/Tool.



- A. Screw
- B. Thread extractor
- C. Tap
- D. Stud

Right Answers : B

83. Identify the type of Nut



- A. Prevailing torque Lock Nut
- B. Hex Plain nut
- C. Serrated nut
- D. Wing nut

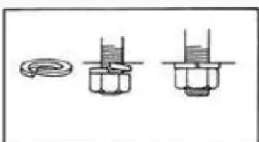
Right Answers : A

84. Which of the following is used for maintaining tightness of a nut?

- A. Flat washer
- B. Spring Washer
- C. Screw extractor
- D. Key

Right Answers : B

85. What kind of washer is shown in the picture



D.

- A. Spring washer
- B. Locking Nut
- C. Locking washer

Plain washer

Right Answers : A

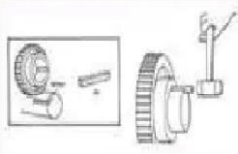
86. Identify the machinery in the following picture.



- A. Ballast pump
- B. Cargo Oil Pump Turbine
- C. Purifier
- D. Water Cooler

Right Answers : D

87. What is the person in the picture doing.



- A. Pushing in the Shaft Key
- B. Breaking Spline
- C. Removing the Shaft key
- D. Hammering the shaft

Right Answers : A

88. Engine room ventilation falls under 2 major categories. Name both of them

- A. Forced Draft
- B. Load Draft
- C. Unbalanced Draft
- D. Natural Draft

Right Answers : A,D

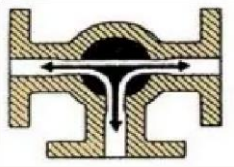
89. The function of Hydrophore system is to supply

- A. Jacket cooling water
- B. Domestic Fresh Water
- C. Domestic Sea water
- D. Compressed Air

Right Answers : B

E.

90. Given picture is of



- A. Three way cock
- B. Multipurpose cock
- C. Two way cock
- D. Ball valve

Right Answers : A

Exam Title : Chapter MEK 7

1. Which of this is not fitted on the cylinder head of a diesel engine
- A. exhaust valve
  - B. turbo charger
  - C. starting valve
  - D. indicator valve

Right Answers : B

2. Which of this is not a moving part of a diesel engine
- A. piston
  - B. crankshaft
  - C. crankcase
  - D. connecting rod

Right Answers : C

3. Generator engine on board ship is started using
- A. hydraulic oil motors/pressure
  - B. compressed air
  - C. turbo generator
  - D. air compressor

Right Answers : B

4. Purpose of fresh water circulation through diesel engine cylinder is to
- A. prevent corrosion
  - B. remove heat of combustion
  - C. clean exhaust gases
  - D. lubricate moving part

Right Answers : B

5. Turning gear on main engine is provided for
- A. releasing parts if jammed
  - B. turning the engine during overhaul
  - C. remove exhaust gases from cylinder
  - D. ensure turning of propeller

Right Answers : B

6. Exhaust gas economiser produces
- A. fresh water
  - B. steam
  - C. inert gas
  - D. electricity

Right Answers : B

7. Turbo chargers on diesel engine
- A. acts as fuel charger
  - B. decreases the pressure of intake air
  - C. increases pressure of intake air



D. increases RPM

Right Answers : C

8. Exhaust gases from the main engine go to the atmosphere through
- A. inert gas generator
  - B. oil fired boiler
  - C. exhaust fan
  - D. exhaust gas boiler

Right Answers : D

9. Relief valves are provided on main engine cylinders for protection against high
- A. pressure
  - B. exhaust temperature
  - C. speed
  - D. level of water

Right Answers : A

10. Function of a cylinder head relief valve is to
- A. prevent crankcase explosion
  - B. stop the engine
  - C. reduce the speed of engine
  - D. release excessive pressure

Right Answers : D

11. Function of crankcase relief door is to
- A. release pressure from crankcase
  - B. stop the engine
  - C. reduce the speed of engine
  - D. detect the mist inside the crankcase

Right Answers : A

12. If cooling water becomes less in a diesel engine the engine will
- A. make more noise
  - B. cool down too much
  - C. get overheated
  - D. not start

Right Answers : C

13. Diesel engine bearing will get damaged if supply of \_\_\_\_\_ is not enough
- A. air
  - B. fuel
  - C. water
  - D. lubricating oil

Right Answers : D

14. Speed of diesel engine is adjusted by changing the supply of
- A. air
  - B. fuel
  - C. water
  - D. lubricating oil

Right Answers : B

15. While diesel engine is operating ,one of the important pressure to check is \_\_\_\_\_
- A. lubricating oil
  - B. sartin air
  - C. exhaust gas
  - D. steam pressure

Right Answers : A

16. One of the function of lubricating oil in a diesel engine is to reduce
- A. exhaust temperatures
  - B. friction between moving parts
  - C. wexhaust gases
  - D. weight of the engine

Right Answers : B

17. Function of crankcase lubricating oil in a diesel engine is to \_\_\_\_\_
- A. improve combustion
  - B. prevent corrosion
  - C. supply power
  - D. turn crankshaft

Right Answers : B

18. The lower most ring on a diesel engine piston is called
- A. split ring
  - B. compression ring
  - C. pressure ring
  - D. oil scraper ring

Right Answers : D

19. For good combustion,the color of the exhaust from diesel engine should be
- A. light brown
  - B. colourless
  - C. light grey
  - D. bluish white

Right Answers : B

20. Ships propeller is fitted to
- A. stern tube
  - B. intermediate shaft
  - C. tail shaft
  - D. crankshaft

Right Answers : C

21. The type of engine normally used for generators on a ship is \_\_\_\_\_
- A. 4 stroke
  - B. 2 stroke
  - C. 6 stroke
  - D. medium stroke

Right Answers : A

22. When starting engine on diesel oil, before injection the oil is
- A. heated to same temp s heavy oil

- B. heated if necessary in cold climate
- C. passed through the purifier
- D. mixed with steam

Right Answers : B

23. A cam shaft on diesel engine operates
- A. fuel injection pump
  - B. flywheel
  - C. fuel valves
  - D. starting valves

Right Answers : A

24. Thrust block for main engine is fitted at the
- A. forward side of engine
  - B. aft side of engine
  - C. end of the cam shaft
  - D. tail shaft

Right Answers : B

25. Function of a cylinder head relief valve is to
- A. Release excessive pressure
  - B. Reduce the speed of the engine
  - C. Stop the engine
  - D. Prevent crankcase explosion

Right Answers : A

26. The purpose of Injector valve on a generator engine is for \_\_\_\_\_ . A. Safety
- B. Fresh air intake
  - C. Fuel inlet
  - D. Compress air

Right Answers : C

27. Exhaust valve in a Diesel engine \_\_\_\_\_ .
- A. Stays in place
  - B. Opens and closes
  - C. Rotates in place
  - D. Moves up and down

Right Answers : B

28. Thrust block for main engine is fitted at the
- A. End of the cam shaft
  - B. Tail Shaft
  - C. Forward side of Engine
  - D. Aft side of Engine

Right Answers : D

29. Piston in a Diesel engine \_\_\_\_\_ .
- A. Stays in place
  - B. Moves up and down
  - C. Oscillates

D. Rotates in place

Right Answers : B

30. The purpose of Exhaust Gas in a Diesel engine is to \_\_\_\_\_ .

- A. Reduces friction
- B. Increases air supply
- C. Turns turbo charger
- D. Gives power

Right Answers : C

31. What is to be checked on a running Main engine , during watch.

- A. Exhaust temperature
- B. Oil coming out of water side
- C. Steering angle
- D. Discharge pressure of liquid

Right Answers : A

32. Air starting valve in a Diesel engine \_\_\_\_\_ .

- A. Oscillates
- B. Moves up and down
- C. Moves from side to side
- D. Opens only at engine starting

Right Answers : D

33. The purpose of Indicator valve on a generator engine is for \_\_\_\_\_ . A. Fresh air intake

- B. Compressed air
- C. Blowing through
- D. Fuel inlet

Right Answers : C

34. Which of these is NOT a moving part of a diesel engine:

- A. Crankcase
- B. Connecting rod
- C. Piston
- D. Crankshaft

Right Answers : A

35. Cylinder Head in a Diesel engine \_\_\_\_\_ .

- A. Oscillates
- B. Rotates in place
- C. Moves up and down
- D. Stays in place

Right Answers : D

36. The purpose of Inlet valve on a generator engine is for \_\_\_\_\_ . A. Safety

- B. Fresh air intake
- C. Compress air
- D. Fuel inlet

Right Answers : B

37. The purpose of Exhaust valve on a generator engine is for \_\_\_\_\_ .

- A. Combustion Gases
- B. Stop fuel
- C. Fuel inlet
- D. Fresh air intake

Right Answers : A

38. Before starting a generator engine, LO hand pump should be operated to
- A. Warm up the engine
  - B. Supply lub oil to moving parts
  - C. Check the level of the tank
  - D. Turn the engine

Right Answers : B

39. Connecting rod in a Diesel engine \_\_\_\_\_ .
- A. Moves up and down
  - B. Stays in place
  - C. Oscillates
  - D. Rotates in place

Right Answers : C

40. The purpose of Fuel Oil in a Diesel engine is to \_\_\_\_\_ .
- A. Reduces friction
  - B. Gives power
  - C. Turns turbo charger
  - D. Causes explosion

Right Answers : B

41. The purpose of Lubricating Oil in a Diesel engine is to \_\_\_\_\_ .
- A. Increases air supply
  - B. Reduces friction
  - C. Turns turbo charger
  - D. Gives power

Right Answers : B

42. Crankshaft in a Diesel engine \_\_\_\_\_ .
- A. Rotates in place
  - B. Oscillates
  - C. Moves up and down
  - D. Stays in place

Right Answers : A

43. The purpose of "COMPRESSED AIR" in a diesel engine is to \_\_\_\_\_
- A. Turns turbo Charger
  - B. Starts Engine
  - C. Gives Power
  - D. Controls fuel Supply

Right Answers : B

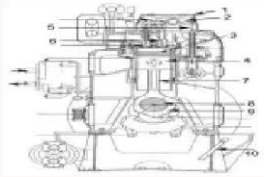
44. Generator engine on board ships is started using
- A. Compressed air
  - B. Air compressor

C. Hydraulic Oil Motors / Pressure

D. Turbo generator

Right Answers : A

45. Identify parts 1 , 2 , 3 , 4 and 5 . from the following drawing



A. Connecting Rod

B. Crank Pin

C. Piston

D. Cylinder head cover

E. Rocker arm

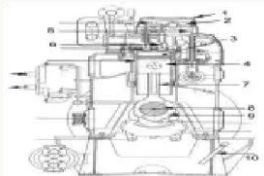
F. Piston Ring

G. Push Rod

H. Inlet valve

Right Answers : C,D,E,F,G

46. Identify parts 6 , 7 , 8, 9 and 10. from the following drawing



A. Piston

B. Inlet Valve

C. Dip Stick/ Oil level gauge

D. Crank Pin

E. Bottom end Bearing

F. Piston ring

G. Connecting Rod

H. Push Rod

I. Rocker arm

Right Answers : B,C,D,E,G

47. Trunk type engines have Piston rod between Piston and Connecting Rod

A. False

B. True

Right Answers : A

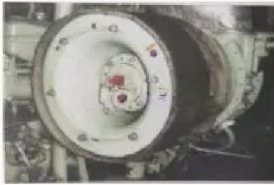
48. Cross head type engines doesn't have Piston Rod between Piston and Connecting Rod

A. False

B. True

Right Answers : A

49. Given picture is of



- A. Jacket water cooling pump
- B. Turbocharger Gas side
- C. Turbocharger Air inlet side
- D. Lubricating oil pump

Right Answers : C

50. Given picture is of



- A. Cylinder head
- B. Turbocharger Gas side
- C. Jacket cooling water pump
- D. Turbocharger air inlet side

Right Answers : B

51. Function of crankcase lubricating oil in a diesel engine is to reduce friction between moving parts, cooling the parts and to \_\_\_\_\_ .

- A. Prevent corrosion
- B. Supply power
- C. Turn the crankshaft
- D. Improve combustion

Right Answers : A

52. The purpose of Turbocharger in a Diesel engine is to \_\_\_\_\_ .

- A. Reduces friction
- B. Increase air supply
- C. Gives power
- D. Turns turbo charger

Right Answers : B

53. Turbo Alternator is a generator operating on steam produced from waste heat of Main engine exhaust gases

- A. False
- B. True

Right Answers : B

54. Why diesel engine generator does not have a reversing mechanism

- A. Running reverse its phase sequence will change
- B. Running reverse it produces DC instead of AC
- C. Running reverse it consumes power instead of producing power
- D. Running reverse does not produce power

Right Answers : C

55. Which system is not required for main engine
- A. Feed system
  - B. Lubricating system
  - C. Cooling system
  - D. Fuel system

Right Answers : A

56. Steam turbine driven generator is called
- A. Shaft generator
  - B. Turbo alternator
  - C. Generator
  - D. Alternator

Right Answers : B

57. Main engine is part of \_\_\_\_\_ system
- A. feed water
  - B. Electricity generation
  - C. Bilge
  - D. Propulsion

Right Answers : D

58. Given picture is of



- A. Snap ring
- B. Slotted ring
- C. Piston ring
- D. Spring ring

Right Answers : A

## Exam Title : Chapter MEK 8

1. What Maintenance task should be carried out on Air Compressors
- A. First & second stage valves overhaul and inspection
  - B. Cylinder head with inlet and exhaust valves overhaul and inspection
  - C. Cleaning, varnishing, baking and insulation check
  - D. Basket cleaning & wire mesh inspection
- Right Answers : A
2. Air Compressor is part of the \_\_\_\_\_ system.
- A. Ballast
  - B. Fuel oil
  - C. Compressed air
  - D. Electrical

Right Answers : C



3. The Function of a Compressor is to
- A. Pressurize liquids
  - B. Pressurize air or gases
  - C. Separate solid and liquids
  - D. Trap solid particles

Right Answers : B

4. The function of "AIR BOTTLE" is to
- A. Ventilation
  - B. Store Air
  - C. Cooling or heating
  - D. Control Flow

Right Answers : B

5. Which of the following is NOT a part of an air compressor?
- A. Shaft
  - B. Filter
  - C. Valve
  - D. Injector

Right Answers : D

6. Air compressor is related to \_\_\_\_\_ .
- A. Starting of Main Engine
  - B. Storing Vegetables
  - C. Steering
  - D. Human waste

Right Answers : A

7. Before starting an air compressor you will ensure that
- A. Fuel tank has fuel
  - B. Valves on discharge line are open
  - C. Valves are overhauled
  - D. Hot work permit is taken

Right Answers : B

8. The purpose of "COMPRESSED AIR" in a diesel engine is to \_\_\_\_\_
- A. Gives Power
  - B. Controls fuel Supply
  - C. Starts Engine
  - D. Turns turbo Charger

Right Answers : C

9. What is to be checked on a running Air compressor , during watch.
- A. Exhaust temperature
  - B. Oil coming out of water side
  - C. Air Bottle Pressure
  - D. Discharge pressure of liquid

Right Answers : C

10. Identify the machinery in the following picture.



- A. Purifier
- B. Air compressor
- C. Cargo Oil Pump Turbine
- D. Ballast pump

Right Answers : B

11. Common fittings on an Air bottle...Mark the incorrect one
- A. Drain Valve
  - B. Pressure Gauge
  - C. Gauge glass
  - D. Filling Valve

Right Answers : C

12. Checks during running of an Air compressor. ....Mark the incorrect one
- A. Lube oil pressure is correct and in limits
  - B. Filling valve for the air bottle is closed
  - C. Compressor is drawing normal amps
  - D. Check for any noise and vibrations

Right Answers : B

13. Which of the following is not the function of Compressed Air
- A. Starting of Main engine
  - B. Cleaning of machinery parts
  - C. Cleaning of Individual's body parts
  - D. Operation of hand tools

Right Answers : C

14. Drain valves are provided on the air bottles to remove
- A. Fuel
  - B. Lube oil
  - C. Condensed water
  - D. Steam

Right Answers : C

### Exam Title : Chapter MEK 9

1. What Machine Tool will you be Using for Making Axial hole in a Round bar.
- A. Bending machine
  - B. Grinding machine
  - C. Drill machine
  - D. Lathe machine
- Right Answers : D

2. What Machine Tool will you be Using for Cutting a joint.

- A. Lathe machine
- B. Bending machine
- C. Drill machine
- D. Scissors

Right Answers : D

3. What machine will you use for cutting a large plate?

- A. Welding Machine
- B. Drill Machine
- C. Gas Cutting Machine
- D. Grinding Machine

Right Answers : C

4. What Machine Tool will you be Using for Joining two plates.

- A. Drill machine
- B. Lathe machine
- C. Grinding machine
- D. Welding machine Right Answers : D

5. What Machine Tool will you be Using for Making holes in a plate.

- A. Grinding machine
- B. Drill machine
- C. Bending machine
- D. Lathe machine Right Answers : B

6. To make a new flange for a pipe you will need:

- A. Chisel, hammer and drilling machine
- B. Lathe machine and drilling machine
- C. Grinding machine, drilling machine and pipe cutter
- D. Welding machine and milling machine

Right Answers : B

7. Which of these is NOT a part of a lathe

- A. Anvil
- B. Head stock
- C. Tool post

D. Chuck

Right Answers : A

8. What Machine Tool will you be Using for Removing extra material after welding.

- A. Drill machine
- B. Lathe machine
- C. Grinding machine
- D. Bending machine

Right Answers : C

9. During lathe work, goggles protect our eyes from \_\_\_\_\_

- A. Fumes
- B. Heat
- C. Metal chips
- D. Flash Light

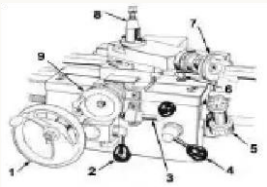
Right Answers : C

10. Danger for lifting heavy equipment manually is \_\_\_\_\_

- A. slip
- B. fall
- C. sprain
- D. fracture

Right Answers : C

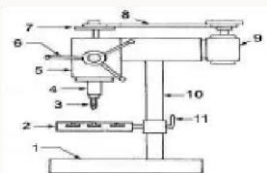
11. Identify the parts numbered 1, 2, 3, 4 and 5.



- A. Threading Dial
- B. Cross Lever Feed
- C. Longitudinal Feed Lever
- D. Carriage Lock Screw
- E. Cross Feed Hand wheel
- F. Half Nut Lever
- G. Carriage Handle
- H. Tool Post Slide Hand wheel
- I. Tool Post

Right Answers : A,B,C,F,G

12. Identify parts numbered 1, 2, 3, 4, and 5



A. Drill Feed

- B. Motor
- C. Base
- D. Step cone Pulley
- E. Spindle Head
- F. Spindle
- G. Drill
- H. Table
- I. Column

Right Answers : C,E,F,G,H

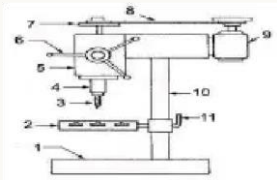
13. Identify the following image



- A. Flying disc
- B. Rubber wheels
- C. Grinding wheel
- D. Abrasive disc

Right Answers : D

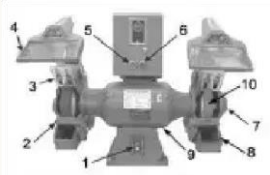
14. Identify parts numbered 6, 7, 8, 9, and 10



- A. Drill Feed
- B. Belt
- C. Step cone Pulley
- D. Motor
- E. Base
- F. Spindle Head
- G. Handle
- H. Column

Right Answers : A,B,C,D,H

15. Identify parts numbered 1, 2, 3, 4, and 5

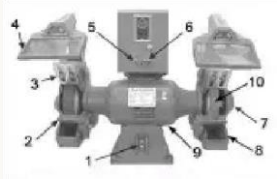


- A. Base
- B. Motor
- C. Wheel Guard
- D. Tool Rest

- E. Spark Guard
- F. Start Switch
- G. Light Switch
- H. Stop Switch
- I. Safety Glass Shield

Right Answers : D,E,F,G,I

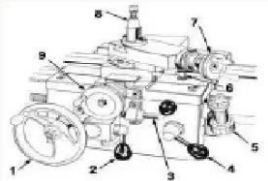
16. Identify parts numbered 6, 7, 8, 9, and 10



- A. Motor
- B. Dust collector
- C. Wheel
- D. Stop Switch
- E. Base
- F. Tool Rest
- G. Wheel Guard
- H. Spark Guard

Right Answers : A,B,C,D,G

17. Identify the parts numbered 6, 7, 8, and 9



- A. Cross Feed Hand wheel
- B. Carriage Lock Screw
- C. Tool Post Slide Hand wheel
- D. Tool Post
- E. Threading Dial
- F. Cross Lever Feed
- G. Half Nut Lever
- H. Carriage Handle

Right Answers : A,B,C,D

18. DO'S on Machine safety...Mark the incorrect one

- A. Keep machine clean and in good condition
  - B. Check wheel rotation after running of machine
  - C. Switch off machine immediately if anything goes wrong
  - D. Check oil levels of machine before starting
- Right Answers : B

19. DONT'S in the workshop...Mark the incorrect one

- A. Do not throw things or play practical jokes
- B. Do leave your machine unattended

C. Do not run in the workshop

D. Do not touch any equipment unless authorised to do so Right Answers : B

20. While working with machines do not wash your hands with coolant

A. False

B. True

Right Answers : B

Exam Title : Chapter MEK 10

1. What machine will you use for cutting a large plate?

A. Welding Machine

B. Drill Machine

C. Gas Cutting Machine

D. Grinding Machine

Right Answers : C

2. What Machine Tool will you be Using for Joining two plates.

A. Drill machine

B. Lathe machine

C. Grinding machine

D. Welding machine

Right Answers : D

3. When starting to weld you must hold the electrode at an angle of about?

A. 50°

B. 70°

C. 30°

D. 90°

Right Answers : B

4. Oxygen and \_\_\_\_\_ is used in gas welding on board.

A. Argon

B. Acetylene

C. Nitrogen

D. LPG

Right Answers : B

5. What Machine Tool will you be Using for Removing extra material after welding.

A. Drill machine

B. Lathe machine

C. Grinding machine

D. Bending machine

Right Answers : C

6. Before starting arc welding you must:

- A. Extend the welding cables
- B. Connect the electrode holder to the earth clamp
- C. Connect the welding cable to the earth clamp
- D. Connect the earth Clamp to the work piece

Right Answers : D

7. Gases used in gas welding are
- A. Acetylene and oxygen
  - B. CO<sub>2</sub> and LPG
  - C. Oxygen and LPG



D. Acetylene and LPG

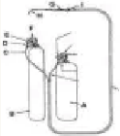
Right Answers : A

8. The welding arc length should be:

- A. Equal to the diameter of the electrode
- B. Less than the diameter of the electrode
- C. 20mm
- D. 6-12mm

Right Answers : A

9. Identify the Part No D, E, F in the picture from the below answers



- A. Oxygen Hose
- B. Acetylene Hose
- C. Twin Hose
- D. Working Pressure Gauge
- E. Oxygen Regulator
- F. Cylinder Pressure Gauge

Right Answers : D,E,F

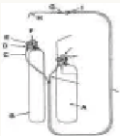
10. Identify the following image



- A. Fuel gas welding nozzles
- B. Flash back arrester
- C. Tip cleaner
- D. Gas saver lighter

Right Answers : C

11. Identify the Part No A, B, C in the picture from the below answers

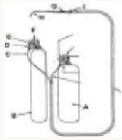


- A. Oxygen Cylinder
- B. Twin Hose
- C. Acetylene Cylinder
- D. Acetylene Hose

- E. Oxygen Hose
- F. Oxygen Regulator

Right Answers : A,C,E

12. Identify the Part No G, H, I in the picture from the below answers



- A. Acetylene V/V Wrench
- B. Oxygen Regulator
- C. Twin Hose
- D. Tip
- E. Oxygen Hose
- F. Welding Torch

Right Answers : D,E,F

13. The function of Electrode dryer is to wet the electrodes that have been exposed to a humid atmosphere

- A. False
- B. True

Right Answers : A

14. Too long an arc will cause

- A. This is bulb up the weld pool
- B. Low penetration coarse splatter & flat bead
- C. Uncontrolled penetration slag globules electrode stuck to weld
- D. Even bead & good penetration & good welding

Right Answers : B

15. Too short an arc length will cause an uneven bead due to arc failure

- A. None of the above
- B. Good welding
- C. Low penetration coarse splatter
- D. Flat bead

Right Answers : A

16. Electrode should be kept at a distance of \_\_\_\_\_ above the spot where we wish to strike the arc

- A. 30-40 mm
- B. 20-30 mm
- C. 40-50 mm
- D. 35-45 mm

Right Answers : B

17. Welding gloves made from tanned leather can be following combinations
- A. 3-finger and 5-finger type
  - B. 2-finger and 4-finger type
  - C. 4-finger and 6-finger type
  - D. 1-finger and 2-finger type

Right Answers : A

18. Spats protect the ankles from melted metal and splatter
- A. True
  - B. False

Right Answers : A

19. In welding screen, welding glasses are always used with Protective glasses
- A. False
  - B. True

Right Answers : B

20. The given picture is of



- A. Gas pipe connector
- B. Gas pipe adaptor
- C. Gas torch union
- D. Flashback arrester

Right Answers : D

21. Given picture is of



- A. Gas mixing unit
- B. Gas cutter
- C. Hand torch
- D. Welding torch

Right Answers : D

Exam Title : Chapter MEK 12

1. The level measuring device, Gauge glass & can be used for
- A. Tanks of large depth
  - B. Multi Purpose

C. Tanks of Small depths

D. Oil can

Right Answers : C

2. The level measuring device, Level Indicator can be used for
- A. Oil level in generator crankcase
  - B. Sumps of purifiers, compressors, etc
  - C. Oil can
  - D. Small to large tanks within the engine room

Right Answers : B

3. The level measuring device, Sounding tape can be used for
- A. Oil can
  - B. Tanks of large depth
  - C. Multi Purpose
  - D. Oil level in generator crankcase

Right Answers : B

4. The level measuring device, Remote level indicators can be used for
- A. Multi Purpose
  - B. Oil can
  - C. Tanks of large depth
  - D. Oil level in generator crankcase

Right Answers : A

5. A sounding tape is used for measuring level of a liquid in a:
- A. Tank
  - B. Boiler
  - C. Crank case
  - D. Cylinder

Right Answers : A

6. A gauge-glass for checking liquid level is fitted on which tanks
- A. Fore Peak Ballast Tank
  - B. FO Storage Double Bottom Tank
  - C. After Peak Ballast Tank
  - D. Lub Oil Storage Tank

Right Answers : D

7. A dip stick is used for checking level of oil in a
- A. Filter
  - B. Tank
  - C. Cylinder
  - D. Crank case

Right Answers : D

8. The level measuring device, Dip stick can be used for
- A. Multi Purpose
  - B. Oil level in generator crankcase
  - C. Tanks of large depth
  - D. Oil can

Right Answers : B

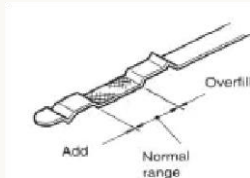
9. The level measuring device, Sounding rod can be used for
- A. Oil can
  - B. Tanks of large depth
  - C. Oil level in generator crankcase
  - D. Multi Purpose

Right Answers : D

10. The most common item provided for checking oil level in a small machine is
- A. Sounding tape
  - B. Sounding rod
  - C. Sight glass
  - D. Remote level indicator

Right Answers : C

11. Identify the picture given below



- A. Sounding tape
- B. Level gauge
- C. Sounding rod
- D. Dip stick Right Answers : D

12.

Identify the picture given below



- A. Tank filling pipe
- B. Sounding pipe with Cock
- C. Portable oil pump
- D. Fresh water pipe with valve

Right Answers : B

13. Identify the picture given below



- A. Sight glass
- B. Remote level indicator
- C. Level Gauge

D. Dip stick

Right Answers : C

14. Identify the picture given below



A. Sounding\_tape

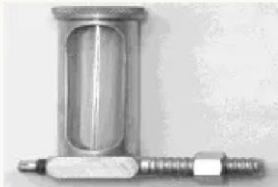
B. UTI Tape

C. Dip Stick

D. Sounds Rod

Right Answers : D

15. Identify the picture given below



A. Oil level gauge

B. level gauges

C. boiler level gauge glass

D. level gauge for large tanks GS

Right Answers : A

16. Identify the picture given below



A. Long tape

B. Steel tape

C. Sounding tape

D. Measuring tape

Right Answers : C

17. Identify part 1 in the picture from the below answers



- A. Level Gauge
- B. Remote level indicator
- C. Sight glass
- D. Low level alarm

Right Answers : A

18. Identify part 2 in the picture from the below answers



- A. Low level alarm
- B. Level Gauge
- C. Sight glass
- D. Remote level indicator

Right Answers : A

Exam Title : Chapter MEK 13

1. What material is not a commonly used as insulation material?
- A. Plastic
  - B. Wood
  - C. Glass Wool
  - D. Fire Bricks

Right Answers : A

2. What is used to prevent the transfer of heat from pipes or equipment?
- A. Insulating material
  - B. Cooling system
  - C. Turbo charger
  - D. Air circulation

Right Answers : A

3. What is the common name for item used for preventing the loss of heat from pipes or equipment?
- A. Lagging
  - B. Cooling system
  - C. Exhaust boiler
  - D. Air circulation

Right Answers : A

4. What materials are banned for use as insulation materials?
- A. Fire Bricks
  - B. Thermocole
  - C. Fiberglass Wool
  - D. Asbestos

Right Answers : D

5. Woolen garments, blankets and quilts are termed as Insulating Materials

- A. True
- B. False

Right Answers : A

6. While working with Insulating material such as glass wool, you must not protect your body using gloves and goggles

- A. True
- B. False

Right Answers : B

7. Lagging is the Insulating material wrapped around pipes, boilers or tanks to allow loss of heat

- A. True
- B. False

Right Answers : B

8. Electrical Insulation prevent flow of .....

- A. Power
- B. Resistance
- C. Electricity
- D. Voltage

Right Answers : C

9. While assembling pipes, take care in removing the lagging and putting it back after completing the work

- A. True
- B. False

Right Answers : B

10. Insulating material used is generally Fire resistant

- A. True
- B. False

Right Answers : A

#### Exam Title : Chapter MEK 14

1. Chemicals should be stored in \_\_\_\_\_

- A. in accommodation
- B. in engine room
- C. in separate well ventilated store
- D. on deck

Right Answers : C

2. If any chemical fall on the body, first action should be

- A. apply medicine to affected area
- B. wipe clean the affected area
- C. call for the doctor
- D. thoroughly wash affected area

Right Answers : D



3. Chemicals on-board are not to be used for

- A. cleaning the boiler
- B. cleaning the cooking utensils
- C. boiler water treatment
- D. fuel oil treatment

Right Answers : B

4. Disposal of used/expired chemical container should be done by

- A. throwin into deep sea
- B. disposal with ships garbage
- C. disposal as per makers instruction
- D. burning in incinerator

Right Answers : C

5. Identify the following



- A. Sign for pyrotechnics
- B. Sign for chemistry Lab
- C. Sign for chemical danger
- D. Sign for Fire danger

Right Answers : C

6. Identify the following



- A. Chemical splash roof goggles
- B. Dust protection eye wear
- C. normal working goggles
- D. Sun protection shades

Right Answers : A

7. The image below is of chemical containers



- A. True
- B. False

Right Answers : A

8. Identify the following



- A. Calf skin gloves
- B. Cotton gloves
- C. Latex hand gloves
- D. Welding gloves

Right Answers : C

9. Chemicals are mainly used for

- A. All of the above
- B. Fuel treatment
- C. Boilers
- D. Testing quality of water

Right Answers : A

10. Use of personal protective gear while handling chemicals...Mark the incorrect one

- A. Face mask
- B. Apron

C. Rubber gloves

D. Sun protect Goggles

Right Answers : D

Exam Title : Chapter MEK 15

1. Steering gear is used to turn the

- A. crane boom/jib
- B. main engine
- C. propeller
- D. rudder

Right Answers : D

2. Steering gear is located in the

- A. forward of engine room
- B. on the bridge
- C. in a separate compartment aft of engine room
- D. forecastle

Right Answers : C

3. Rudder of the ship is turned by means of a

- A. hydraulic pump
- B. propeller
- C. Cylinder and Ram arrangement only
- D. steering wheel

Right Answers : C

4. Which of the following is a correct statement

- A. Steering gear is located at aft part of the ship
- B. Rudder is connected to the propeller
- C. Rudder is located in the steering flat
- D. Propeller is turned by the rudder

Right Answers : A

5. Various components of Steering Gear ...Tick the incorrect one

- A. Hydrophore Unit
- B. Actuating Unit
- C. Power Unit
- D. Control Unit

Right Answers : A

6. The thruster placed in the aft of the ship is called Bow Thruster

- A. False
- B. True

Right Answers : A

7. The thruster placed in the forward end of the ship is called Stern Thruster

- A. True
- B. False

Right Answers : B

8. While taking rounds in the Steering flat, following to be checked...Mark the incorrect one

- A. Leakages from pumps, pipe joints, etc
- B. Load of the pump in Ampere
- C. Oil level of MDO in the steering gear system
- D. Abnormal noise or vibrations

Right Answers : C

### Exam Title : Chapter MEK 16

1. A quick closing valve is fitted on

- A. boiler steam line
- B. main engine cooling system
- C. fuel tanks above double bottom tanks
- D. compressed air line

Right Answers : C

2. Man hole door on a tank is fitted for

- A. allowing entry to the tank when needed
- B. preventing entry by unauthorized persons
- C. preventing damage on tanks
- D. strengthening the tank

Right Answers : A

3. A quick closing valve

- A. prevents fire from occurring
- B. can be remotely closed in an emergency
- C. prevents oil spills in engine room
- D. stops air supply to main engine

Right Answers : B

4. Air vent to tanks is provided for

- A. preventing build up of pressure or vaccum
- B. allowing liquid to come out when tank is full
- C. preventing fire
- D. for ventilation

Right Answers : A

5. Sounding pipes on tanks are fitted for finding

- A. level of liquid in the tank
- B. pressure in the tank
- C. temperature in the tank
- D. abnormal sound in the tank

Right Answers : A

6. Quick closing valve operation is carried out from

- A. a remote location outside engine room
- B. anywhere in the engine room
- C. steering flat
- D. navigation bridge

Right Answers : A

7. Ballast tank on a ship are filled up with \_\_\_\_\_

- A. drinking water
- B. sea water
- C. cargo oil

D. water from other tanks

Right Answers : B

8. Settling tanks on ship are provided for
- A. allowing water and sludge to separate before oil separator
  - B. mixing oils before use
  - C. storing oils before its use
  - D. filtering water from fuel oil

Right Answers : A

9. While bunkering is going on, what will be the most important thing to monitor
- A. Oil sample is being taken
  - B. Temperature of oil being supplied
  - C. Oil sounding in the tank being filled
  - D. Oil sounding in bunker barge

Right Answers : C

10. Quick Closing Valves can be operated...
- A. All of the above
  - B. Locally
  - C. Pneumatically
  - D. Remotely

Right Answers : A

11. Each tank is required to have at least the following
- A. All of the above
  - B. Outlet Line
  - C. Air Vent
  - D. Sounding Pipe
  - E. Filling Connection

Right Answers : A

12. Storage Tank in the engine room will be called as \_\_\_\_\_ if the tank capacity is in between 2-50 tonnes
- A. Ballast Tank
  - B. Medium Tank
  - C. Large Tank
  - D. Small Tank

Right Answers : D

Exam Title : Chapter MEK 17

1. On finding an injured person in the engine room, your first action will be to
- A. apply first aid
  - B. report to the duty officer on watch
  - C. bring a stretcher
  - D. look for the cause of injury

Right Answers : B

2. A fire alarm in the engineroom is activated
- A. from the bridge
  - B. automatically on machinery failure
  - C. due to a black out
  - D. due to fire in the engine room

Right Answers : D

3. On hearing a CO2 alarm in the engine room, your first action will be
- A. report to the duty officer on watch
  - B. use large fire extinguisher on the fire
  - C. use emergency exit to get out
  - D. raise fire alarm

Right Answers : C

4. A machinery failure alarm in the engine room is activated
- A. from the bridge
  - B. automatically on machinery failure
  - C. due to collision of the ship
  - D. due to fire in the engine room

Right Answers : B

5. A general alarm is activated
- A. from the bridge
  - B. automatically on machinery failure
  - C. due to black out
  - D. due to high bilge level

Right Answers : A

6. UMS stands for
- A. Uniform Machinery Space Operation
  - B. Unattended Machinery Space Operation
  - C. Undermanned Machinery Space Operation
  - D. Under Machinery Space Operation

Right Answers : B

7. Accident can't happen in the engine room due to falling objects
- A. False
  - B. True

Right Answers : A

8. Which of the following is NOT an audio visual alarm
- A. Fire Alarm
  - B. Co2 Alarm
  - C. Ship security alarm
  - D. Machinery Alarm

Right Answers : C



9. General Alarm and Co2 alarm are same

- A. True
- B. False

Right Answers : B

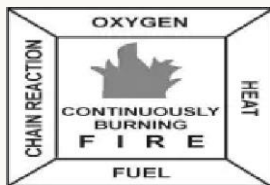
10. Emergencies that can occur in the Engine room

- A. Stoppage of Main engine
- B. Crank case explosion
- C. Flooding of the engine room
- D. All of the above

Right Answers : D

Exam Title : Chapter MEK 18

1. Identify the following



- A. Fire Geometry
- B. Fire square
- C. Fire triangle
- D. Explosive limits

Right Answers : B

2. Identify the following



- A. Fixed fire fighting system
- B. Fire hoses
- C. Fire hydrant
- D. Nozzles

Right Answers : D

3. Identify the following



- A. Brass coupling
- B. Flexible coupling
- C. Adjustable coupling
- D. International shore coupling

Right Answers : D

4. Identify the following



- A. Dry chemical type extinguisher
- B. Mobile Foam extinguisher
- C. Portable foam extinguisher
- D. CO2 fire extinguisher

Right Answers : A

5. Identify the following



- A. Dry chemical type extinguisher
- B. Portable foam extinguisher
- C. Mobile Foam extinguisher
- D. CO2 fire extinguisher

Right Answers : D

6. Fixed fire fighting system for engine room

- A. DCP
- B. CO2
- C. inert gas
- D. nitrogen

Right Answers : B

7. Not a part of a fire triangle

- A. fuel
- B. heat
- C. electricity
- D. air

Right Answers : C

8. Main fire pump is located

- A. on main deck
- B. at the fire station
- C. in the engine room
- D. in the steering flat

Right Answers : C

9. To fight an electric fire you would use
- A. dry powder
  - B. steam jet
  - C. water spray

D. special foam Right Answers : A

10. Means of forcing water out of a portable extinguisher

- A. CO2 cartridge
- B. air cartridge
- C. chemical cartridge
- D. nitrogen cartridge

Right Answers : A

11. High expansion foam system is suitable for fighting fires in

- A. accommodation
- B. cargo holds
- C. engine room
- D. deck of ship

Right Answers : C

12. Which of the following provided for connecting to shore water supply

- A. foam tank
- B. fixed foam system
- C. fire hydrant
- D. international shore connection

Right Answers : D

13. The emergency fire pump on a ship is located

- A. at the poop deck
- B. inside the engine room
- C. outside the engine room
- D. at the boat deck

Right Answers : C

14. Your first action upon finding a fire

- A. use portable extinguisher
- B. start the fire pump
- C. raise an alarm
- D. switch off electrical power supply

Right Answers : C

15. Fire hose on ship are made of

- A. strong canvas
- B. thick cloth
- C. leather
- D. flexible teel

Right Answers : A

16. What is used in case the fire in the engine room becomes out of control

- A. portable fire extinguisher
  - B. 45 liters foam fire extinguisher
  - C. fixed CO2 fire extinguishing system
  - D. fire pumps and hoses
- Right Answers : C

17. Which one of the following will be used first on a small fire in the engine room

- A. portable fire extinguisher
- B. fire blanket
- C. fixed fire extinguishing system
- D. fire pumps and hoses

Right Answers : A

18. Identify the following



- A. Portable foam extinguisher
- B. Dry chemical type extinguisher
- C. CO2 fire extinguisher
- D. Mobile Foam extinguisher

Right Answers : D

19. Full form of PASS. ....Mark the correct one

- A. Pull, Aim, Smoke,
- B. Pull, Aim, Squeeze, Sweep
- C. Pull, Aim, Sponge, Sweep
- D. Push, Automatic, Sweep, Squeeze

Right Answers : B

20. Following is not a part of Fire detection system

- A. Heat Detector
- B. Flame Detector
- C. Body Detector
- D. Smoke Detector

Right Answers : C

21. Identify the following



- A. Fire Hydrant, Fire Hose, International Shore Coupling
- B. Pipe, Fire Hydrant, Nozzle
- C. Pipe, Combination nozzle, Fire Hose
- D. Fire Hydrant, Fire Hose, Nozzle

Right Answers : D

Exam Title : Chapter MEK 19

1. What is to be checked on a running Main engine , during watch.
  - A. Exhaust temperature
  - B. Oil coming out of water side
  - C. Discharge pressure of liquid
  - D. Steering angle

Right Answers : A

2. While keeping a watch what will you check on a pump that is in operation
  - A. Suction and discharge pressure
  - B. Line Valves are Open
  - C. Temperature of liquid
  - D. Speed

Right Answers : A

3. While the boiler is operating, you will ensure that
  - A. Vent valve is open
  - B. Water level is maintained
  - C. Safety Alarms by-passed
  - D. Black Smoke is coming out

Right Answers : B

4. What is to be checked on a running Purifier , during watch.
  - A. Oil coming out of water side
  - B. Steering angle
  - C. Exhaust temperature
  - D. Discharge pressure of liquid

Right Answers : A

5. What is to be checked on a running Pump , during watch.
  - A. Oil coming out of water side
  - B. Exhaust temperature
  - C. Steering angle
  - D. Discharge pressure of liquid

Right Answers : D

6. While bunkering is going on, what will be the most important thing to monitor
  - A. Temperature of oil being supplied
  - B. Oil sounding in bunker barge
  - C. Oil sounding in the tank being filled
  - D. Oil sample is being taken

Right Answers : C

7. What is to be checked on a running Boiler , during watch.
  - A. Exhaust temperature



B. Steering angle

C. Water level

D. Oil coming out of water side

Right Answers : C

8. Before starting an air compressor you will ensure that

- A. Fuel tank has fuel
- B. Valves on discharge line are open
- C. Valves are overhauled
- D. Hot work permit is taken

Right Answers : B

9. UMS stands for

- A. Under Machinery Space Operation
  - B. Undermanned Machinery Space Operation
  - C. Unattended Machinery Space Operation
  - D. Uniform Machinery Space Operation
- Right Answers : C

10. What is to be checked on a running Oil Transfer Pump , during watch.

- A. Weather conditions
- B. Level in the tank
- C. Water level
- D. Oil coming out of water side

Right Answers : B

11. While a diesel engine is operating, one of the important pressures to check is \_\_\_\_

- A. Starting air
- B. Exhaust Gas
- C. Lubricating oil
- D. Steam pressure

Right Answers : C

12. What is to be checked on a running Air compressor , during watch.

- A. Exhaust temperature
- B. Oil coming out of water side
- C. Air Bottle Pressure
- D. Discharge pressure of liquid

Right Answers : C

13. Watch keeping on Motors & Pumps. ....Mark the incorrect one

- A. Temperature of the motor should be felt by back side of palm
  - B. Current drawn should be in the range
  - C. There should be abnormal noise and vibration in the pump
  - D. Gland area should be checked for any leakages
- Right Answers : C

14. Which is NOT a means of Internal Communication system

- A. Hawse Pipe

- B. Walike Talkie
- C. Public Address sytem
- D. Sound Powered Telephone

Right Answers : A

### Exam Title : Chapter MEK 20

1. Identify the picture given below



- A. Electric drill machine
- B. External Cir-clip pliers
- C. Phillips Screw Driver
- D. High leverage combination Pliers

Right Answers : C

2. What is the name of the following tool?



- A. philips
- B. screw driver
- C. studdy
- D. electrical tester

Right Answers : D

3. Identify the picture given below



- A. Screw Driver
- B. External Cir-clip pliers
- C. High leverage combination Pliers
- D. Electric drill machine

Right Answers : C

4. Identify the picture given below



- A. Soft Hammer
- B. Phillips Screw Driver
- C. Phillips Screw Driver
- D. Electric tester

Right Answers : A

5. Identify the picture given below



- A. High leverage combination Pliers
- B. Electric drill machine
- C. External Cir-clip pliers
- D. Phillips Screw Driver

Right Answers : B

6. Identify the picture given below



- A. High leverage combination Pliers
- B. External Cir-clip pliers
- C. Electric drill machine
- D. Screw Driver

Right Answers : B

7. Which Instrument is used for testing Insulation

- A. Driver
- B. Megger
- C. Drager
- D. Jagger

Right Answers : B

8. Before starting maintenance on any equipment, following precautions to be taken...Mark the incorrect one

- A. Remove the safety guards
- B. Put a warning notice on the Mains switch

- C. Switch on the main supply
- D. Switch off the machine

Right Answers : C

9. Before re-starting a machine, following precautions to be taken...Mark the incorrect one

- A. Check that no tools have been left on or near the machine
- B. Replace the safety guard after starting the machine
- C. Restore the power supply
- D. Remove any warning notices

Right Answers : B

10. Dry full contact body resistance is about \_\_\_\_\_ ohms at 250V

- A. 4000
- B. 5000
- C. 2000
- D. 3000

Right Answers : C

11. What is the minimum value of shock current (AC) which can be fatal

- A. 25 mA
- B. 35 mA
- C. 20 mA
- D. 15mA

Right Answers : D





































