

# Sem VI MECS III

## Mock Test - MCQs

1. For example if a diesel engine develops brake power/ shaft power of 10000 KW (1 points) available at engine crank shaft and has the transmission loss of 3%. calculate how much will be developed power available for propeller?

a 9700 KW  
b 97 KW  
c 970 KW  
d 97000 KW

2. For example if a diesel engine develops indicated power of 1000 KW taken for (1 points) all cylinders, and has the mechanical efficiency 95%. calculate how much will be the brake power/ shaft power available at engine crank shaft?

a 950 KW  
b 9500 KW  
c 9.5 KW  
d 95 KW

3. What is the function of a nozzle in steam turbines? ? (1 points)

a) all the pressure energy raises the steam temperature  
b) all the pressure energy of fluid remains constant  
c) all the pressure energy of fluid converted into kinetic energy  
d) all the pressure energy lowers the steam temperature

4. As per MARPOL annex VI to overcome air pollution problem, as per regulation (1 points) how much is the sulfur content permitted in fuel oil used on board ships for main engine w.e.f. 01/01/2020?

a .1 %  
b 3.5 %  
c .5 %  
d 1.5 %

5. When CPP propellers are fitted on to tail shaft of a ship, it has the advantage that (1 points) main engine can be of a type ..... ?

a uni directional / non reversible  
b single cylinder  
c engine with no cylinder  
d reversible

6. Sewage which is not disinfected not comminuted can be discharge overboard at what distance from land? (1 points)

- a more than 4 nautical miles
- b more than 22 nautical miles
- c more than 5 nautical miles
- d more than 12 nautical miles

7. The tail shaft / propeller shaft of the transmission system is supported on which bearing? (1 points)

- a universal bearing
- b thrust bearing
- c stern tube bearing
- d plumber bearing

8. What is that maximum pressure developed called in an engine cylinder after fuel injection or fuel combustion? (1 points)

- a peak pressure
- b compression pressure
- c built cylinder pressure
- d injection pressure

9. Inter mediate shaft connects which shaft to which shaft? (1 points)

- a thrust shaft to tail shaft
- b engine to crank shaft
- c engine to shaft generator
- d driver to propeller shaft

10. What is the material of large ship propellers made of? (1 points)

- a aluminum
- b alloys of nickel, aluminum and bronze
- c cast iron
- d wrought iron