

BOARD OF MECHANICAL ENGINEERING

Registered Mechanical Engineer Licensure Examination

POWER AND INDUSTRIAL PLANT ENGINEERING

SET A

INSTRUCTION: Select the correct answer for each of the following questions. Mark only one answer for each item by marking the box corresponding to the letter of your choice on the answer sheet provided. **STRICTLY NO ERASURES ALLOWED.** Use pencil No.2 only.

MULTIPLE CHOICE

1. What type of boiler in which hot gases from a fire pass through tubes running through a sealed pressure vessel containing water? The heat of the gases is transferred through the walls of the tubes by thermal conduction, heating the water and ultimately producing steam.
☒ A. Fire-tube boiler C. Water-tube boiler
B. Waste heat boiler D. Biomass boiler
2. What would be the expected increase in efficiency of an Otto-cycle gasoline engine if the compression ratio were increased from 6.5 to 8.0?
A. 4.6% ☒ C. 7.2%
B. 5.9% D. 8.5%
3. A Pelton type turbine was installed 30 m below the head gate of the penstock. The head loss due to friction is 12 percent of the given elevation. The length of the penstock is 100 m and the coefficient of friction is 0.00093. Determine the power output in kW. (Use Morse equation).
A. 22,273 C. 23,234
B. 32,345 ☒ D. 34,452
4. What is a pressure actuated valve held closed by a spring or other means and designed to automatically relieve pressure in excess of its setting?
☒ A. Pressure relief valve C. Fusible plug
B. Rupture disc D. Control valve
5. A boiler constructed, inspected and stamped, as required by the P+EC 2012 is called _____.
☒ A. Code boiler C. Water-tube boiler
B. Power boiler D. Fire-tube boiler
6. A pump uses a 1200 rpm motor to pump 100,000 kg/min of standard temperature water that has a density of 1000 kg/m³ (which may be assumed constant through the pump) has a pressure rise from 1 bar to 40 bar using a 10 cm diameter impeller. The inlet diameter is 35 cm and the exit diameter is 25 cm. The outlet from the pump is at the same elevation as the inlet to the pump. The pump has an efficiency of 75%. For the new pump - what is the new flow rate in kg/min.
☒ A. 150,000 C. 193,000
B. 170,000 D. 211,000
7. A water cooled air compressor operating on the polytropic process with an $n = 1.2$, is used to compress 500 m³/min of air at 1 bar and 20°C to a pressure

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