

SAMPLE QUESTIONS 5TH CLASS (MULTIPLE CHOICE)

(NOTE: These questions are intended as representations of the style of questions that may appear on examinations, they are not intended as study material and, as such, may not be in line with any current examination syllabus)

Currently all the 5TH class SOPEEC examinations are delivered in a multiple-choice format. Examination candidates have 3.0 hours to answer 100 multiple choice questions. This works out to be 1.8 minutes per question.

To use your time wisely it is recommended that you read through the questions and answer only the questions for which the answer comes to you quickly. Leave other questions and calculation questions for later.

A _____ is a weld deposit resulting from a pass with a welding rod.

- A. **bead**
- B. braze
- C. butt joint
- D. base metal

What type of bearings are used in a totally enclosed electric motor?

- A. **Ball**
- B. Roller
- C. Sleeve
- D. Sealed

To prevent excessive journal bearing temperatures, bearings are usually

- A. air-cooled
- B. oil-cooled
- C. gas-cooled
- D. **water-cooled**

Temperatures are important in an internal combustion engine used for standby power, so often the cooling system includes a/an

- A. air cooler
- B. water cooler
- C. circulating pump**
- D. reciprocating pump

What is the most likely cause of liquid not being delivered in a centrifugal pump?

- A. Worn gaskets
- B. Lack of prime**
- C. Wrong liquid or too high viscosity
- D. Air leaks in suction line and stuffing boxes

Compressed air for plant instrumentation must have very

- A. low pressure
- B. high pressure
- C. high moisture content
- D. low moisture content**

A _____ compressor is an example of dynamic compressor.

- A. rotary
- B. rotary lobe
- C. centrifugal**
- D. sliding vane

What are the two types of mechanical draft cooling towers?

- A. Natural draft and induced draft
- B. Forced draft and induced draft**
- C. Atmospheric towers and chimney towers
- D. Venturi cooling towers and chimney towers

_____ tests measure the resistance of a material to penetration.

- A. Impact
- B. Tensile
- C. Fracture
- D. **Hardness**

According to the ASME code, _____ shutoff valves may be installed in the connecting piping of a water column mounted on a low-pressure heating boiler

- A. **no**
- B. two
- C. four
- D. three

Steam which has changed back to water in a boiler system is called

- A. flocculate
- B. precipitate
- C. concentrate
- D. **condensate**

The base unit of length in the SI system is the

- A. foot
- B. inch
- C. mile
- D. **metre**