

INSTRUMENT TRADE THEORY N2

(One 3-hour paper)

1. Pressure and vacuum measurements.

- 60 Units of pressure in the British and Metric Systems, Absolute and gauge pressure; conversion factors.
- 60 Pressure instruments. Descriptive treatment, with elementary calculations, where applicable, of the following instruments:
 - (i) Single U-tube manometers with equal and unequal legs; the well type manometer and the inclined tube manometer.
 - (ii) Bourdon tube, bellows and diaphragm-operated instruments.
 - (iii) Ring balance instruments.
 - (iv) Bell type instruments.
 - (v) Elementary vacuum instruments, such as the McLeod gauge.
 - (vi) Test instruments, dead weight tester.

2. Flow measurement.

- 61 Units of flow in the British and Metric Systems, conversion factors.
- 61 Primary flow elements. Descriptive treatment of the venturi and Dall tube orifice plate, Pitot tube. Installation requirements for primary flow elements.
- 62 Flow instruments. Descriptive treatment with calculations such as the conversion of wet into dry calibration of mercury manometer flowmeters of the following:
 - (i) Differential pressure instruments. Mercury manometer flowmeters including shaped chamber types having square law corrected scales. Bell type flowmeters. Ring balance flowmeters.
 - (ii) Quantity (volumetric) meters. Displacement type liquid flowmeters such as oscillating piston and rotating disc types. Dry and wet gas flowmeters. Differential meters of the deflecting vane, rotating vane and helical vane types. Descriptive treatment of turbine flowmeters.
 - (iii) Area flowmeters (rotameters). Description and operating principle of area flowmeters.

3. Level measurement. General descriptions of the following methods: where applicable, elementary calculations to be included:

- 63 Dip-stick and direct vision gauge glass.
- 63 Differential pressure level instruments on open and closed vessel applications.
- 63 Float-operated instruments.
- 63 Float buoyancy type instruments, using torque tube transmission.
- 63 Static pressure and purge systems.

4. Temperature measurement.

- 64 A brief introduction stating, amongst others, temperature scales and conversions. Absolute temperature, International temperature scales.
- 64 Expansion and vapour pressure instruments. Descriptive treatment including all important practical details of the following instruments:

2/...

Instrument Trade Theory Exam Paper N3

Rachel Sandford



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