53 (IE 812) ICPI

## 2018

## CONTROL IN PAPER INDUSTRY INSTRUMENTATION AND

Paper: IE 812

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions

Answer any five questions.

- merits and demerits. chemical pulping process. Compare their Discuss in detail the mechanical and
- 2 chemical recovery process in details. diagram, about the various stages in in paper making process and explain with Discuss with flow diagram the steps followed 20
- (a) Explain in details about the principle Flowmeter with neat diagram. and construction of Electromagnetic

- KCK 6 and thickness in measurement and process. Explain with control of density the pulp making hardware, the
- control systems with neat diagrams: Enumerate in detail about the following

2×10=20

- <u>a</u> Dissolving tank density controller
- 9 Condensate conductivity control
- Ç, in paper making process. Reduction Potential and pH measurement Explain the importance of Oxidation
- 6 management in paper industry. basis weight and functioning Explain about computer controls for online of alarm
- Write short notes on the following:

4×5=20

- (a) Types of wood used for making pulp
- 9 Important objectives of process control
- (c) Self-regulation
- (d) Servo Operation.

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