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Roll No.

MECM-202

M.E./M. Tech. II Semester

Examination, June 2016

Computer Aided Design for Process Equipment

Time : Three Hours

Maximum Marks: 70

- Note: i) Attempt any five questions out of eight questions given.
 - ii) Draw neat diagrams in support of your answers. iii) All questions carry equal marks.
- Discuss general design consideration and optimum design in computer aided design.
 - Give a brief note on property estimation, material and energy balance in computer aided design for process equipments. http://www.rgpvonline.com
 - Discuss important steps consider of computer aided design of heat transfer equipment.
 - Discuss general design consideration in double heat exchangers shell and tube heat exchangers.
 - Give a brief note on design of distillation column. Give a brief note on design of absorption tower both plate as well as packed type.
 - 4. a) Obtain an expression for the mean temperature difference for a counter flow heat exchanger.

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- b) Discuss important design consideration of computer aided design of continuous stirred tank reactor.
- 5. a) Give a brief note on interactive computer graphics and drafting simulation software.
 - by Give a brief note on flow sheeting software and integrated software system. http://www.rgpvonline.com
- 6. a) Discuss special software for steady and dynamic simulation of chemical engineering systems.
 - Discuss in brief development of software programs in computer aided design and process equipment.
- 7. a) Discuss important design consideration of computer aided design of chemical reactor.
 - b) Discuss important design consideration of computer aided design of batch reactor.
- a) Discuss important steps of computer aided design of mass transfer equipments.
 - b) Discuss general design consideration in double heat exchangers condensers and evaporators.
