

Roll No.

24356

**B. Tech 6th Semester (ME)
Examination – May, 2018**

HEAT TRANSFER

Paper : ME-306-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory*. Students have to attempt *one* question from each Section.

1. Write short notes on the following :

- (i) Modes of Heat transfer
- (ii) Fin effectiveness
- (iii) Stephen Boltzman law

SECTION – A

- 2. Derive a relation for steady state conduction for one dimensional condition.
- 3. Derive a conduction equation in cartesian for spherical co-ordinate system.

SECTION – B

- 4. Discuss the transient heat conduction equation for plane walls.
- 5. Derive a relation for steady state heat conduction with heat generation for 2-D.

SECTION – C

- 6. Discuss the empirical relation for free convection from vential cylinders.
- 7. Discuss the relation for hydro-dynamic boundary layer.

SECTION - D

8. Derive a relation for laminar film condensation on a vertical plate.
 9. Discuss the analysis of a parallel flow heat exchanger.
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