FEST -2 EXAMINATION- Oct 2019

Ph.D. 1st Semester

COURSE CODE: 18M1WEC8

MAX. MARKS: 25

COURSE NAME: Computational Electromagnetics

COURSE CREDITS: 3

MAX. TIME 5 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations w treated as case of unfair means.

1. Explain forward, backward and central differencing in FDM.

2. Explain in detail the meaning of Accuracy, Dispersion and Absorbing boundary conditions in FDM?

[CO-2,4; 5 Marks]

3. What are Maxwell PDE systems and Max

[CO-2,3; 5 Marks]

4. Explain direct and indirect variational method

[CO-3; 3 Marks]

5. Derive the expressions of nd magnetic components of TE modes in circular waveguides.

[CO-2; 5 Marks]

6. Derive the expression but off frequency in rectangular waveguides.

[CO-4; 2 Marks]