

Marking Scheme

OCTOBER 2019 / INSEM (T1)

paper code: P119-151(T1)

F. Y. M. TECH. (Mechanical Design Engineering) (SEMESTER - I)

COURSE NAME: Advanced Stress Analysis

COURSE CODE: MEPA11181

(PATTERN 2018:R1)

Q. 1	Detailed Figure – 02 Marks Generalized equation – 02 Marks Conversion of Cartesian to polar coordinates – 02 Marks Equilibrium equation – 04 Marks	10
	OR	
Q. 2	Prove ϕ as Airy's stress function – 04 Marks Stresses at boundary condition – 04 Marks Representation of all the stresses – 02 Marks	10
Q. 3	Principal strain – 03 Marks Principal stress – 03 Marks	06
	Figure – 02 Marks Explanation – 02 Marks	04
	OR	
Q. 4	Principal strain – 03 Marks Principal stress – 03 Marks	06
	Figure – 02 Marks Explanation – 02 Marks	04