

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FOURTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

Course Code: ME202

Course Name: ADVANCED MECHANICS OF SOLIDS

Answer Key

Note:

All the answers to these questions are available in the textbook **Advanced Mechanics of Materials** by S. Jose (prescribed textbook as per KTU syllabus). Reference to page numbers and worked out examples from the book are listed below.

PART A

Answer all questions, each carries 5 marks.

			Marks
1		See example 1.4 page no 23	10
2	a	See page 85	3
	b	See page 74, 75	3
	c	see page 35	2
	d	See page 97,98	2
3	a	See example 2.1 in page 50	5
	b	See page 58	5
4	a	See example 4.6 in page 113,114	6
	b	See page 28	4

PART B

Answer any two full questions, each carries 15 marks.

5	a)	See page 181	3
	b)	See page 202	3
	c)	See page 211	4
6	a)	See page 130 eqns 5.11 and 5.12	5
	b)	See page 158	5
7		Refer to example 6.3 in page 180	10
8	a)	See example 5.3 page no 148	6
	b)	See example 5.3 page no 148	4

PART C

Answer any two full questions, each carries 15 marks.

9	a)	See page 204, eqn 7.6	5
	b)	See page 216	5
10		See page 221 Example 7.8	10

11		See example 8.12 page no 263	10
12		See example 8.16 page no 275	10
13	a)	See page no 265	4
	b)	See page 247,248	3
	c)	See page 269	4
14		See example 8.21 page no 287-289	10

