

Reg.No. _____



Karunya UNIVERSITY

(Karunya Institute of Technology & Sciences)
(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – Nov/Dec – 2016

Code : 13ME103
Sub. Name : Basic Mechanical Engineering

Semester : 2016-17 ODD
Duration : 3hrs
Max. marks : 100

ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Explain with a neat sketch velocity compounded impulse turbine.	1	15
	b.	Write the difference between 4S engine and 2S engine.	1	5
(OR)				
2.	a.	Explain the working principle of Cochran boiler with a neat sketch.	1	15
	b.	Represent diagrammatically the strokes in four stroke diesel engine.		5
3.	a.	Explain with a neat sketch of a geothermal power plant.	2	15
	b.	What are the advantages of thermal power plants.	2	5
(OR)				
4.	a.	Draw and explain the stress strain curve.	2	15
	b.	What are the applications of ferrous metals and alloys?	2	5
5.	a.	Describe various steps in moulding process with neat diagrams.	3	15
(OR)				
6.	a.	Explain the working principle of cupola furnace.	3	15
	b.	What are the tools used in forging process?	3	5
7.	a.	Explain the concept of gas welding.	4	20
(OR)				
8.	a.	Describe the working principle of drilling process.	4	15
	b.	Write various parts of milling machine.	4	5
<u>Compulsory:</u>				
9.	a.	Draw a neat diagram of lathe machine and write the operations carried on it.	4	20

ALL THE BEST