



Sanjay Ghodawat University, Kolhapur  
Established as State Private University under Govt. of Maharashtra. Act No  
XL, 2017

2017-  
18

FY M Tech

School of Technology

Semester I

EES 503

Automotive Embedded Systems - I

Max Marks: 100

2017 (6 DEC)

End Semester Examination (ESE)

Time: 3 Hrs

Instructions for Students: 1) Use of non-programmable calculator is allowed  
2) All questions are compulsory

		Marks	COs
<b>Q1</b>	<b>Solve any Two</b>		
a)	Explain basic principles of Transducers and its classification	09	CO1
b)	Explain construction and Working of Inductive transducers	09	CO1
c)	Explain Ultrasonic sensors.	09	CO1
<b>Q2</b>	<b>Solve any Two</b>		
a)	Explain Lighting system in Car	04	CO2
b)	Explain Powertrain Electronics in Car.	12	CO2
	OR		
b)	Discuss Chassis Electronics for automobile	12	CO2
<b>Q3</b>	<b>Solve any Two</b>		
a)	Explain in detail dashboard instruments	04	CO3
b)	Explain with neat diagram Diesel Engine Management system in automobile	12	CO3
<b>Q4</b>	<b>Solve any Two</b>		
a)	Explain different types of Vehicle Batteries	09	CO4
b)	Explain maintenance and charging Lead acid battery faults	09	CO4
c)	Explain working of Lead-Acid batteries	09	CO4
<b>Q5</b>	<b>Solve any Two</b>		
a)	Explain Requirements of charging systems in automobile	04	CO5
b)	Explain advanced charging system technology	12	CO5
	OR		
b)	Explain charging system technology	12	CO5
<b>Q6</b>	<b>Solve any Two</b>		
a)	Explain Pressure sensors	04	CO6
b)	How stepper motors and relays working in automobile	12	CO6

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