Code No: **P42042** **R10** **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2015

EMBEDDED SYSTEMS

(Electronics & Communication Engineering)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

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1	a)	What is an embedded system? Give the classification of embedded systems.	[8]
	b)	List different applications of embedded systems.	[7]
2		Explain in detail the application of embedded systems in washing machine control.	[15]
3	a)	Explain different input/output devices used in embedded systems.	[9]
	b)	Explain watchdog timer.	[6]
4	a)	What is Direct Memory Access? Explain.	[8]
	b)	Differentiate between Compiler and Crosscompiler.	[7]
5	a)	What is an operating system? Explain different types of operating systems.	[8]
	b)	What is multitasking? Explain in detail.	[7]
6		Explain computational models in embedded system design.	[15]
7	a)	Briefly explain simulators and Emulators.	[7]
	b)	Explain the embedded software development process.	[8]
8		Write short notes on:	[8+7]

a) Compilers and Linkers
b) Debugging tools