

## Code No: C8807 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech I - Semester Examinations, March/April-2011 BIOMEDICAL INSTRUMENTATION (ELECTRONICS AND INSTRUMENTATION)

Time: 3hours Max. Marks		arks: 60
Answer any five questions All questions carry equal marks		
1.	<ul><li>a) Explain the electrodes used for ECG measurement.</li><li>b) Briefly explain resting action potentials with necessary diagrams.</li></ul>	[12]
2.	<ul><li>a) Explain phonocardiography with necessary sketches.</li><li>b) Write short notes on:</li><li>i) Vector cordiography</li><li>ii) Echocardiography.</li></ul>	[12]
3.	With neat sketches explain any two methods of measurements of bloo	d flow. [12]
4.	<ul><li>a) Explain the functioning of defibrillators.</li><li>b) Write a note on ultrasonography.</li></ul>	[12]
5.	<ul><li>a) Describe with a neat block diagram computer tomography (CT).</li><li>b) Explain any one application of lasers in medicine.</li></ul>	[12]
6.	Explain the method of continuous monitoring of feotal scalp pH.	[12]
7.	<ul><li>a) Describe the functioning of speech audiometer system.</li><li>b) Explain the applications of audiometer.</li></ul>	[12]
8.	<ul><li>a) Explain in detail the measurement of pH in blood.</li><li>b) Describe with a neat diagram the coulter counter.</li></ul>	[12]

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