Student Exam	No:	
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GANPAT UNIVERSITY

B.Tech Sem. VthBiomedical & Instrumentation Engineering Regular Exam November / December-2012 2BM506: Analytical Instrumentation

Time: 3	Hour	S steem what he written MO pereto suswer keeks	
	1. Al 2. Al 3. Fi	If the questions are compulsory. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books. Inswer of each section must be written in separate answer books.	
		Section - I	[12]
Que-1	a)	Write a short note on Centrifuge.).
	b)	What are the different types of Balances? Explain each in detail with neat diagram. OR	
Que-1	a) b)	Draw and explain Autoclave with neat diagram in detail. Write applications of each: Hot air oven, Flame photometer, Spectrophotometer, Microscope, Colorimeter, Centrifuge, Mass spectrometer, Autoclave, Pulse oximeter, Auto cell counter	[12]
Que-2	a) b)	Explain principle of Oximetry with neat diagram. Draw and explain Coulter counter. OR	[11]
Que-	2 a) b)	give pros and cons of instrumental analysis. Give the difference between optical Spectrometer and mass	
Que-	-3 a) b)	What is the importance of blood cell counting? What are the different	[12]
	Cons	methods of cell counting? Explain microscopic method.	

		Section – II	[12]
Que-4		are on a reference of the second seco	District Co.
~	a)	Why blood gas analysis is important? Explain blood pO2 measurement	
	-,	with neat diagram.	
	b)	Explain principle of Spectrometry with neat diagrams.	
		OR	[12]
Que-4		1201 (9)	[12]
	a)	Draw and explain Multichannel Colorimeter in detail.	
	b)	Draw and explain Gas-liquid Chromatography in detail.	[11]
Que-5		PARTICIPATION OF THE PROPERTY	[11]
Ques	a)	Explain Flame photometer with all diagrams.	1
	b)	Give names of methods which are used for separation in instrumenta	1
		analysis.	
		OR	[11]
Que-5		And the same of th	589(11)
~	a)	Explain Electrophoresis with neat diagram.	
	b)	Draw and explain Thermal conductivity analyzer.	[12]
Que-6		建设在 国际 125日	[12]
	a)	Draw and explain Electronic Microscope.	
	b)	Explain Picoscale with neat diagram.	
		train at margari to the line and analysis has worth to	
		in) White applications of eacht.	
		Hot au oven, Flame photomot Co	
		Countingter, Centrifuge, Mass sy from A. Lincoleve, Lin	
		END OF PAPER	
		a) Explain principle of Oximetry with near disp	
		to throw and explain Coalies counter.	

a) Name the general laboratory instruments. Explain any one

give pros and cons of leasingmental analysis.