106/2		u riistiai	iikei :	CITO	www.	www.FirstRanker.com					www.FirstRanker.com					
106/ Z / 3 /24/600	(4)												application with the help of an suitable diagram.	What is hiotelemetry? Write down its principle working and	Explain the principle of EEG. How does it help in estimating	
106/278/2		(e)	(d)	(c)	(b)	(a)	Q.1. At		Time: 3 Hours				Paper ID:	(Fo	Printed	
78/24/600		Write down the	What are scintillations?	Write down abo	What are signal transducers?	Discuss the rol science.	Attempt all parts. All parts canswer of each part in short.		Hours	BIOMEDICAL	Γheory Examinati		D: 154853	lowing Paper ID : An	ted Pages: 4	
	(1) P.T.O.	Write down the noninvasive instruments?	llations?	Write down about colored Doppler.	transducers?	Discuss the role of instrumentation in biomedical science.	Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)	Section-A	Max. Marks : 100	BIOMEDICAL INSTRUMENTATION	Theory Examination (Semester-VIII) 2015-16	В.ТЕСН.	Roll No.	(Following Paper ID and Roll No. to be filled in your Answer Books)	EBT-061	

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- **(9**)
 - $\widehat{\Xi}$ What do you understand by bioelectric potential?
- Ξ Explain the parameter of cardiac measurement? What are good laboratory practices?
- Ξ What do you understand by behavior change?
- Write a short note on patient care?

9

Section-B

(5×10=50)

- Attempt any five parts. All parts carry equal marks:

 (5×10=50)

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 (a) What are the effective methods to monitor cardiovascular parameters? Discuss the instrumentation which monitors the working of cardiovascular system. which monitors the working of cardiovascular vascular parameters? Discuss the instrumentation What are the effective methods to monitor cardio-
- **(3**) potential? How does it help in biomedical instru-What do you understand by source of bioelectric mentation?
- Describe the role of computer in biomedical instruintervention. mentation with the help of suitable examples. Describe its role for monitoring and measurement

of suitable example. scribe the emission of radiation from any radio nuclei used in radiotherapy and its measurement with the help What do you understand by radioactive- tracers. De-

<u>a</u>

Describe the behavioral parameters. How does the inchange with the help of an example? strumentation work for monitoring the behavioral changes

<u>e</u>

their categorization Write down the safety rule of medical equipment and

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- (g) Explain the principle, working and advantages of CT-SCAN and MRI.
- E safety of medical equipment? Write down the principle and purpose of electrical

Section-C

Note: Attempt any two questions from this section.

(2×15=30)

Q.3. What do you understand by X-rays? Define its role in diagnostics and explain its advantages and disadvantages in medical field.

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106/ Z / 3 /24/600	(4)												application with the help of an suitable diagram.	What is hiotelemetry? Write down its principle working and	Explain the principle of EEG. How does it help in estimating	
106/278/2		(e)	(d)	(c)	(b)	(a)	Q.1. At		Time: 3 Hours				Paper ID:	(Fo	Printed	
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