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## II SEM M.Tech (BME) DEGREE END-SEMESTER EXAMINATIONS, APRIL/MAY-2017.

## SUBJECT: ALLIED HEALTH SCIENCES (BME 5202) (REVISED CREDIT SYSTEM)

Saturday, 22<sup>nd</sup> April, 2017, 9 am to 12 noon

TIME: 3 HOURS MAX. MARKS: 100

## **Instructions to Candidates:**

- 1. Answer all 5 questions from part A and all 5 questions from part B. Use separate answer books.
- 2. Draw labeled diagram wherever necessary

	PART-A, SPEECH & HEARING (Max. Marks 50)					
Q1)	Explain the basic parts and function of pure to audiometer. Explain the application of pure tone audiometer.					
Q2)	Explain the technology difference between analog and digital hearing aids. Explain the advantage of digital technology in hearing aids.					
Q3)	(23) Explain artificial larynx. Explain the parts and functions of artificial larynx					
Q4)	Explain the parts and function of spirometer. Write the application of it					
Q5)	Discuss the role and importance in the field of speech and hearing					
	PART-B, PHYSIOTHERAPY (Max. marks 50)					
	TART-D, THI STOTHERALL (Max. marks 50)					
Q1)	Explain the role of following instruments in physiotherapy (i) Goniometer (ii).TENS (iii). Electrical stimulator (iv). Dynamometer	2.5×4				
Q2)	) Explain the Phases of gait. Mention the gait variables					
Q3)	Explain electromyography (EMG), its role in medical science. Add a note on Instrumentation for EMG	10				
Q4)	Explain the role of following instruments.  (i) Ultrasound therapy (ii) Short wave diathermy.	5+5				
Q5)	What are the components involved in Human Balance. Explain the assessment and training of balance	10				

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