## JOINT ACADEMIC PROGRAMME ON "BIOMEDICAL INSTRUMENTATION" (BMI)



Website(s): www.japbmi.in, www.caluniv.ac.in, www.wbuhs.ac.in, www.wbhealth.gov.in Phone: +91 (033) 2350 8386, +91 (033) 2321 3461. E-mail: admin@japbmi.in

#### M.Sc. 1st SEMESTER EXAMINATION

DADED	DADED CONTENT
PAPER	PAPER CONTENT
THEORETICAL PAPERS [TOTAL 150 MARKS]	
1	BASIC ANALOG ELCTRONICS, DIGITAL ELECTRONICS AND
	MICROPROCESSORS [50 MARKS]
2	BASIC THEORY OF MEASUREMENT, ELECTRICAL AND
	ELCTRONICS MEASUREMENTS [50 MARKS]
3	HUMAN ANATOMY, PHYSIOLOGY AND BIOCHEMISTRY,
	MEDICAL PHYSICS AND BIOMATHEMATICS [50 MARKS]
PRACTICAL PAPERS [TOTAL 100 MARKS]	
1	MEASURING INSTRUMENTS ANALOG AND DIGITAL,
	ELECTRONICS AND MICROPROCESSORS [50 MARKS]
2	MEASUREMENTS, SENSORS AND TRANSDUCERS, SIGNAL
	ANALYSIS AND ELECTRICAL AND ELECTRONICS
	MEASUREMENTS [50 MARKS]

### M.Sc. 2nd SEMESTER EXAMINATION

PAPER	PAPER CONTENT	
THEORETICAL PAPERS [TOTAL 150 MARKS]		
4	OT, ICU AND ITU EQUIPMENTS [50 MARKS]	
5	MEDICAL IMAGING, RADIOLOGY AND ICP MONITORS [50	
	MARKS]	
6	BIOMATERIALS, RADIOISOTOPES AND NUCLEAR MEDICINE [50	
	MARKS]	
PRACTICAL PAPERS [TOTAL 100 MARKS]		
3	MEDICAL LABORATORY EQUIPMENTS, CALIBRATION AND	
	SAFETY CHECKING OF MEDICAL EQUIPMENTS [50 MARKS]	
4	ODERATION TROUBLECHOOTING AND CALIBRATION OF	
4	OPERATION, TROUBLESHOOTING AND CALIBRATION OF	
	UNKNOWN CIRCUITS RELATED TO MEDICAL EQUIPMENTS [50	
	MARKS]	

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PAPER	PAPER CONTENT
THEORETICAL PAPERS [TOTAL 150 MARKS]	
7	VENTILATOR, HUMIDIFIER, NEBULIZER, ASPIRATOR AND
	DEFIBRILATOR, MYOCARDIAL PROTECTION, CEREBRAL
	PERFUSION, MICRO EMBOLI & ETC [50 MARKS]
8	OPTICAL TRANSMISSION, OPTO-ELCTRONICS, FIBRE-OPTICS
	AND LASERS, MICROPROCESSOR IN BIOMEDICAL
	INSTRUMENTS [50 MARKS]
9	ANALYTICAL INSTRUMENTS AND ITS MEDICAL APPLICATIONS,
7	MEDICAL BIOPHYSICS AND INFORMATICS, CLINICAL
	LABORATORY INSTRUMENTS, POLLUTION CONTROL
	TECHNIQUES OF HOSPITAL WASTES [50 MARKS]
PRACTICAL PAPERS [TOTAL 100 MARKS]	
5	VENTILATOR, HUMIDIFIER, NEBULIZER, ASPIRATOR AND
	DEFIBRILATOR, MYOCARDIAL PROTECTION, CEREBRAL
	PERFUSION, MICRO EMBOLI & ETC [50 MARKS]
6	OPTICAL TRANSMISSION, OPTO-ELCTRONICS, FIBRE-OPTICS
	AND LASERS, ANALYTICAL INSTRUMENTS AND CLINICAL
	LABORATORY INSTRUMENTS [50 MARKS]

### M.Sc. 4th SEMESTER EXAMINATION

PAPER	PAPER CONTENT	
THEORETICAL PAPERS [TOTAL 150 MARKS]		
10	ENDOSCOPY: FLEXIBLE AND RIGID, DIALYSIS AND RENAL	
	TECHNIQUES, CARDIO-VASCULAR AND CARDIO THORACIC	
	EQUIPMENTS [50 MARKS]	
11	COMPUTERS IN MEDICAL EQIPMENT, HOSPITAL	
	INFORMATIION MANAGEMENT, TELEMETRY AND	
	TELEMEDICINES [50 MARKS]	
PRACTICAL PAPERS [TOTAL 100 MARKS]		
7	CARDIO-VASCULAR AND CARDIO THORACIC	
	EQUIPMENTS, TELEMETRY AND TELEMEDICINE [50 MARKS]	
8	COMPUTERS IN MEDICAL EQIPMENT, HOSPITAL	
	INFORMATION MANAGEMENT AND GRAND VIVA [50 MARKS]	
9	PROJECT AND SEMINAR [50 MARKS]	