

B.Tech. SEM -VII Bio Medical 2014 Course (CBCS) : WINTER - 2018
SUBJECT: ADVANCED MEDICAL INSTRUMENTATION

Day: Wednesday
Date: 28/11/2018

W-2018-2587

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

N.B.:

- 1) All Questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data if necessary.
 - 4) Draw neat and labeled diagrams **WHEREVER** necessary.
-

Q.1 Write various Foetal monitoring techniques. Explain How the Foetal Heart activity monitored. (10)

OR

Q.1 a) Describe working of suction machine. (06)

b) Write a note on 'Neonatal ICU equipments'. (04)

Q.2 Explain cochlear implants in detail. (10)

OR

Q.2 a) Define Neuro stimulators and explain in detail different types of Neuro stimulators. (06)

b) List various applications of Implantable pumps. (04)

Q.3 Define artificial Heart. Explain the type of the same. (10)

OR

Q.3 a) Differentiate between Angiography and Angioplasty. (06)

b) Write a short note on 'Prosthetic values'. (04)

Q.4 Describe the components of an anesthesia machine with neat diagram. (10)

OR

Q.4 a) What is peritoneal CRRT? Explain its importance. (06)

b) Write note on "Transport Ventilator". (04)

Q.5 List various types of Blood Glucose Sensors and explain any one sensor in detail. (10)

OR

Q.5 a) Describe the working of 'Creatinine Sensor' (06)

b) Describe construction of 'Bilirubin Sensor'. (04)

Q.6 What is an audiometer? With block diagram explain the working of Evoked Response Audiometer. (10)

OR

Q.6 a) Describe the procedure for Perimetry test. (06)

b) Write note on 'Picture Acquisition Communication System'. (04)

* * * * *
