

B.Tech. SEM -VII Bio Medical 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: ADVANCED MEDICAL INSTRUMENTATION

Day: Monday
Date: 13/05/2019

S-2019-2852

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.
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Q.1 What is incubator? Explain the working of incubator and radiation warmer with neat block diagram. (10)

OR

Q.1 a) Explain cryosurgical equipment with the neat diagram. (06)

b) Write note on “Surgical Drills”. (04)

Q.2 Define retina? Also explain retinal Implants in detail. (10)

OR

Q.2 a) Write a note on ‘Heart Implants’. (06)

b) What are the different types of Ocular Implants? (04)

Q.3 Describe working of ‘Heart Lung Machine’ with block diagram. (10)

OR

Q.3 a) Describe working of ‘Holter equipment’ with block diagram. (06)

b) Write a note on “ Balloon Pump” (04)

Q.4 What is ‘Nebuliser’? Explain the components of Nebuliser. (10)

OR

Q.4 a) What is need of ‘Bronchoscopy’. (04)

b) Describe working of Co₂ monitoring with block diagram. (06)

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

OR

Q.5 a) Describe the working of “Bilirubin Sensor”. (06)

b) Describe construction of ‘Creatinine Sensor’ (04)

Q.6 What is Laproscopy? Explain the procedure for Laproscopy. (10)

OR

Q.6 a) Write note on ‘Dental Chair’. (06)

b) Explain Endoscopy and its importance. (04)

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