

Seat No. : _____

SJ-116

September-2020

B.Sc., Sem.-VI

**CC-308 : Health Hygiene
(Medical Instruments)**

Time : 2 Hours]

[Max. Marks : 50

Instructions : (1) Draw figures where necessary.
(2) Show question number against each answer.
(3) Figures in right are marks.
(4) Answer any **Three** out of initial **Eight** main questions, Question **9** is compulsory.

1. (A) Illustrate the process of Lithotripsy and give its therapeutic uses. 7
(B) Describe working and use of Heart-lung machine. 7
2. (A) Explain the process of Electrotomy. 7
(B) Discuss various medical applications of LASER. 7
3. (A) Explain essential components and diagnostic use of X-ray machine. 7
(B) Draw typical normal cardiogram pattern with label and interpretation. 7
4. (A) Describe the process and applications of MRI. 7
(B) Discuss the medical uses of Ultrasonography. 7
5. (A) Explain the process and applications of Laparoscopy. 7
(B) Discuss Ophthalmoscope device and explain its clinical uses. 7
6. (A) Differentiate between Laparoscopy and Endoscopy. 7
(B) What are different techniques used for audio-visual testing ? 7
7. (A) Explain working principle of dialyzer. 7
(B) Explain neonatal incubator and control facilities attached to it. 7
8. (A) What are major components of a defibrillator ? 7
(B) Discuss medical application of electric shock. 7

9. Answer in Short : (Any **Eight**)

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- (1) Which types of anomaly can be treated using cryosurgery ?
- (2) Name two substances used for Anaesthesia.
- (3) What is the application of Heart-Lung machine ?
- (4) Ethylene oxide is used for the sterilization of medical equipment. (True/False)
- (5) What is Laparoscope ?
- (6) Radiation is used for the treatment of
 - (a) Cancer
 - (b) Heart
 - (c) Liver
 - (d) Gall-bladder
- (7) What is a neonatal incubator ?
- (8) In absence of Oxygen, pH of blood will decline. (True/False)
- (9) _____ device is used to restore normal heartbeat.
- (10) Which instrument is known as artificial kidney ?
- (11) PET scan is used in
 - (a) Cancer
 - (b) Heart problems
 - (c) Brain disorder
 - (d) All of these
- (12) Which element is used for X-ray examination of GI tract ?
 - (a) Calcium
 - (b) Barium
 - (c) Lead
 - (d) Chromium
- (13) Echocardiography can help in detection of
 - (a) Heart problems
 - (b) Pulmonary diseases
 - (c) Tumours
 - (d) Bone fractures
- (14) _____ is a technique for displaying a representation of a cross section through a human body or other solid object using X-rays or ultrasound.
- (15) Which radiation is used in CT scan ?
- (16) What is Doppler ?
- (17) Trade-mill test is used for
 - (a) Eyes
 - (b) Ear
 - (c) Heart
 - (d) Nose
- (18) Tilt test is used to diagnose.
- (19) What is Audiometry ?
- (20) Write full form and use of ENG.
- (21) What is the use of Sphygmomanometer ?
- (22) Which materials are used to construct semipermeable membrane ?