

B.Sc. - I (NEP) - Semester-I
SEC12 / UG01STZOO04 - Zoology (Credit-2)
Clinical Instrumentation Techniques

P. Pages : 1

Time : Two Hours



GUG/W/24/15900

Max. Marks : 40

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labeled diagrams wherever necessary.

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| 1. | Fundamental of medical instrumentation. | 8 |
| | OR | |
| | a) Medical transducers. | 4 |
| | b) Medical electrodes. | 4 |
| 2. | Working application on EEG read out devices. | 8 |
| | OR | |
| | a) EMG device. | 4 |
| | b) Phono cardiograph. | 4 |
| 3. | Write a detailed account on fundamentals of X-ray machine. | 8 |
| | OR | |
| | a) Ultrasonic factual monitors. | 4 |
| | b) Colour Doppler ultrasound machine. | 4 |
| 4. | Write a detailed account on blood cell counter. | 8 |
| | OR | |
| | a) Biochemistry analyser. | 4 |
| | b) Hemo-dialysis machine. | 4 |
| 5. | Write following questions. | 8 |
| | i) Blood pressure | |
| | ii) Unipolar leads | |
| | iii) Ultrasound | |
| | iv) Blood gas analyser | |
