

PAPER CODE: AHS18012

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B.Sc. (ALLIED HEALTH SCIENCES), SECOND YEAR DEGREE EXAMINATIONS: MAY, 2025

CRITICAL CARE TECHNOLOGY

PAPER-III

ICU MONITORING (BASIC) BIOMEDICAL ENGINEERING AND BASIC PHYSICS

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Draw diagrams whenever necessary with Black Ball point pen /HB pencil /any dark

Color pencil.

Write an essay on any TWO of the following questions:

2 X 10 = 20

1. Describe in detail about pulmonary function tests and mention its importance.
2. Mention various positions given to the ICU patients. Explain care to be given while positioning the patient.
3. Enumerate Arterial blood gas analysis (ABG) and its importance in ICU.

Write a short note on any FIVE of the following:

5 X 6 = 30

4. CVP monitoring.
5. Indications of Intubation and mention the procedure of Intubation.
6. Describe a) Inductance b) Transformers.
7. Monitoring sedation in ICU.
8. Arrhythmia – causes, symptoms and types.
9. Glasgow coma scale.

Write briefly on the following:

10 X 3 = 30

10. Capnography.
11. Ryle's tube.
12. Alveolar gas equation.
13. Defibrillator
14. ECG changes in myocardial infarction.
15. Ohm's law.
16. Creatinine clearance.
17. Tracheostomy – indications.
18. Confirmation of ET tube position.
19. Respiratory Acidosis.
