PAPER CODE: AHS18012

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TELANGANA, WARANGAL – 506 002
B.SC. (ALLIED HEALTH SCIENCES) SECOND YEAR DEGREE EXAMINATIONS: FEBRUARY, 2026

CRITICAL CARE TECHNOLOGY

PAPER-III

ICU MONITORING (BASIC)

BIOMEDICAL ENGINEERING AND BASIC PHYSICS

Time: 3 Hours **Max Marks: 80**

Note: Draw diagrams whenever necessary.

Write an essay on any TWO of the following questions: **2 X 10 = 20**

1. What are the risk factors for pressure sores? How do you monitor pressure sores.
2. End tidal CO2 monitoring- Principles, advantages and disadvantages.
3. Describe the following in details- a) Pulse oximeter b) Arterial blood gas.

Write a short note on any FIVE of the following: **5 X 6 = 30**

4. Zeroing, calibration, trouble shooting of pressure transducers.
5. Tracheal intubation.
6. 12 Lead ECG- positions.
7. Glasgow coma scale.
8. Capnography.
9. Factors affecting oxygen consumption.

Write briefly on the following: **10 X 3 = 30**

10. Parameters of electricity- voltage, current, power.
11. What is tidal volume?
12. Non-Invasive BP monitoring.
13. List the methods of assessing renal function in ICU.
14. Draw the waveform of ECT CO2.
15. Importance of monitoring lung volumes in ICU patients.
16. Defibrillator.
17. Draw the waveform on Normal ECG.
18. Ohms law.
19. What is vital capacity?

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