

## Rajiv Gandhi University of Health Sciences, Karnataka Fellowship Examination - 17-Feb-2023

Time: Three Hours Max. Marks: 100 Marks

## PAEDIATRIC INTENSIVE CARE - PAPER - II OP Code: 4144

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

## Answer All The Questions

10 X 10 = 100 Marks

- How can the 'central tendency' of data be measured. How is the 'degree of dispersion' is described.
- Outline the causes, consequences and management of intrinsic PEEP.
- Outline the indications for high frequency oscillation in intensive care and the mechanism of gas exchange when using high frequency oscillation.
- Critically evaluate the role of Procalcitonin (PCT) as a biomarker in the diagnosis and management of sepsis.
- Outline the principles involved in the care of the organ donor.
- Outline the aetiology, clinical manifestations and possible preventive measures for nosocomial infections in intensive care.
- 7. The following questions relate to separation from invasive mechanical ventilation.
  - With reference to a spontaneous breathing trial (SBT).
    - What is an SBT?
    - ii. Over what duration should it occur?
    - iii. Why would you perform an SBT in a mechanically ventilated patient?
    - List three methods of performing an SBT
  - b. What is the rapid shallow breathing index (RSBI) and how should it ideally be measured?
  - c. Briefly outline the role of prophylactic (planned) non-invasive ventilation (NIV) immediately following extubation. Explain how this differs from therapeutically applied (rescue) NIV used in the same context.
- 8. What are the indications for intracranial pressure monitoring in traumatic brain injury? What are the limitations of intracranial pressure monitoring?
- Outline ICU management of Dengue.
- With regard to the EEG :
  - a. List three indications for the use of the EEG in a critically ill patient
  - b. What are the clinical implications of non-convulsive status epilepticus (NCSE) in the critically ill patient?
  - c. List two EEG patterns that may be seen after hypoxic brain injury thought to be associated with a poor prognosis.

\* \* \* \* \*

