

Rajiv Gandhi University of Health Sciences, Karnataka

Fellowship Examination - 17-Feb-2025

Time: Three Hours**Max. Marks: 100 Marks****PAEDIATRIC INTENSIVE CARE - PAPER – I****QP Code: 4143**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Answer All The Questions**10 X 10 = 100 Marks**

1. Draw and label a normal left ventricular pressure volume loop. List the information that can be obtained from this loop.
2. Outline the role of the liver in drug pharmacokinetics.
3. Describe the methods of temperature measurement.
4. Classify bacteria according to the Gram stain system and their shape. Give two examples for each classification.
5. Describe the relevant anatomy for insertion of an intercostal catheter. How does breathing 100% oxygen help in the resolution of a pneumothorax?
6. Describe the production, metabolism and role of lactate.
7. Define respiratory compliance. Describe the factors that affect it.
8. With regards to the use of high-flow nasal oxygen therapy in children.
 - a. Describe the mechanisms by which high flow nasal oxygen therapy is believed to exert its beneficial effects.
 - b. List two potential adverse effects associated with the use of high-flow nasal oxygen therapy.
 - c. List two relative contraindications to the use of high-flow nasal oxygen therapy.
9. Describe the pharmacology of frusemide.
10. Compare and contrast the pharmacology of adrenaline and milrinone.

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