

# National Board of Examinations

**Question Paper Name :** DrNB PAEDIATRIC CRITICAL CARE Paper3  
**Subject Name :** DrNB PAEDIATRIC CRITICAL CARE Paper3  
**Duration :** 180  
**Total Marks :** 100  
**Display Marks:** No

**Maximum Instruction Time :** 0

**Question Number : 1 Question Id : 32718740814 Consider As Subjective : Yes**

**Please write your answers in the answer booklet within the allotted pages as follows:-**

Question Number	Answer to be attempted within	Question Number	Answer to be attempted within
Q. 1	Page 1-5	Q. 6	Page 26-30
Q. 2	Page 6-10	Q. 7	Page 31-35
Q. 3	Page 11-15	Q. 8	Page 36-40
Q. 4	Page 16-20	Q. 9	Page 41-45
Q. 5	Page 21-25	Q. 10	Page 46-50

1. a) Define pulmonary hypertension in children. [2]
- b) Discuss causes of pulmonary hypertension. [3]
- c) Discuss approach to diagnosis. [3]
- d) Name the drugs used in medical management. [2]

**Question Number : 2 Question Id : 32718740815 Consider As Subjective : Yes**

- a) Define status epilepticus and various sub groups of SE. [4]
- b) Discuss treatment approach for refractory and super refractory status epilepticus. [6]

**Question Number : 3 Question Id : 32718740816 Consider As Subjective : Yes**

- a) Enumerate etiologies of acute liver failure in children. [3]
- b) Discuss management of acute liver failure due to Hepatitis A virus infection in PICU. [7]

**Question Number : 4 Question Id : 32718740817 Consider As Subjective : Yes**

A 10-year-old child developed cough and respiratory distress after 60 days of allogenic HSCT. Child tested positive for CMV with pneumonia, deranged LFT and reduced CD4 counts.

- a) What are the risk factors for cytomegalovirus infection? [3]
- b) How will you manage this case? [4]
- c) Discuss preventive measures for CMV infection in transplant recipients. [3]

**Question Number : 5 Question Id : 32718740818 Consider As Subjective : Yes**

- a) Discuss weaning protocol for child on prolonged ventilation. [6]
- b) What are the risk factors for difficult weaning? [4]

**Question Number : 6 Question Id : 32718740819 Consider As Subjective : Yes**

- a) Acute disseminated encephalomyelitis (ADEM). [6]
- b) Informed consent and exceptions to it, in patient decision making in PICU. [4]

**Question Number : 7 Question Id : 32718740820 Consider As Subjective : Yes**

A 7-year-old child with bilateral staphylococcal pneumonia with empyema and bilateral ICD on conventional ventilation, now started desaturating.

- a) What are the possible reasons for desaturation? [4]
- b) Discuss the management strategies for this child. [6]

**Question Number : 8 Question Id : 32718740821 Consider As Subjective : Yes**

- a) A 12-year-old child presented with fever and cough for 5 days, facial puffiness and difficulty in breathing for one day. On examination, the patient is conscious, restless with SpO<sub>2</sub> -78%, prominent neck vein, bilateral cervical lymphadenopathy and marked sternal retraction. Write differential diagnosis and management plan for this child. [6]
- b) Ventilation perfusion abnormalities in pulmonary disease. [4]

**Question Number : 9 Question Id : 32718740822 Consider As Subjective : Yes**

- a) Discuss components, benefits and risk of protocolized sedation. [6]
- b) Fluid responsiveness during positive pressure ventilation. [4]

**Question Number : 10 Question Id : 32718740823 Consider As Subjective : Yes**

- a) Neuroplasticity and predictors of recovery in traumatic brain injury. [5]
- b) Nutritional challenges in pediatric gastrointestinal surgical cases. [5]