

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE- INDIA
DOCTOR OF MEDICINE
M. D. PAEDIATRICS :SUMMER- 2022
SUBJECT : PAPER-I

Day : Friday
Date : 1/7/2022

S-722-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N.B:

1. All questions are **compulsory**.
 2. Figures to the **right** indicate full marks.
 3. Neat diagrams must be drawn **wherever** necessary.
 4. Your answer will be valued as a whole.
-

1. Draw a diagram describing the development of the ventricular septum.
Discuss briefly the various types of ventricular septal defects. **(15 Marks)**

2. Discuss briefly 'Oxygen cascade'. Enumerate the various methods of assessing the alveolo-arterial oxygen gradient and oxygenation during mechanical ventilation.
(15 Marks)

3. Short notes on any **SEVEN**: **(10x7=70 Marks)**
 - a. Principle, advantages, and disadvantages of pulse oximetry
 - b. Point of care ultrasonography
 - c. MR campaign
 - d. Hypernatremic dehydration
 - e. Uniparental disomy and imprinting
 - f. 4th generation cephalosporins
 - g. Role of peripheral blood smear in pediatric practice
 - h. Isotonic crystalloids in resuscitation