

091/20

**The West Bengal University of Health Sciences  
M.D. (Paediatrics) March-April, 2020 Examination**

Paper: II

Full Marks: 100

Time: 3 Hours

*Attempt all questions*

1. Describe the bilirubin metabolism in a neonate? What are the risk factors for severe neonatal hyperbilirubinemia? How is screening for hearing recommended to be done in a neonate who had severe hyperbilirubinemia? 3 + 3 + 4
2. How is neonatal sepsis classified? What are the strategies employed for early diagnosis and management of early onset sepsis? When is a CSF Examination indicated in a neonate with sepsis? 3 + 3 + 4
3. How will you diagnose perinatal asphyxia in a newborn? Discuss the management of term neonate with HIE stage 3. How will you counsel parents of a newborn admitted with HIE stage 3? 3 + 3 + 4
4. How is apnoea defined in a preterm neonate? How will you distinguish apnoea from a seizure? What is the mechanism of action of Caffeine in apnoea of prematurity? 3 + 3 + 4
5. Describe thermoregulation in a neonate. Describe various mechanisms for preventing heat loss and advantages and disadvantages of each. 4 + 6
6. What are the causes of hyperammonemia in infants? Discuss the management of a two month old infant admitted with hyperammonemia. 4 + 6
7. What are the guidelines on the use of oxygen during resuscitation of newborns? What are the adverse effects of hyperoxia seen in neonates? 5 + 5
8. Name some mitochondrial disorders? Write briefly on Characteristics of mitochondrial inheritance? 5 + 5
9. Discuss the retinophysiology of placental blood flow, regulation and changes notes on Doppler velocimetry of fetal blood vessels. 5 + 5
10. What is retinopathy of prematurity (ROP)? What are the risk factors for retinopathy of Prematurity in preterm neonates? How will you screen for ROP in preterm neonate? 3 + 3 + 4