091/20

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

Paper: I

Full Marks: 100
Time: 3 Hours

Attempt all questions

1. Outline the development of the the kidney, ureter and urinary bladder. Describe the renal handling of solutes at the nephron. Mention the renal acidification mechanism . Describe the tests for assessment of tubular function. 2 + 2 + 3 + 3

2. Draw a diagram describing CSF production and circulation. Discuss the pathophysiology of brain herniation and its clinical correlates. 5+5

3. With the help of diagrams, show the relationship between pulmonary vascular resistance and lung volume. Describe the Transition physiology following birth and factors which interrupt the normal postnatal transition process. 5+5

4. Enumerate the duct dependant cardiac lesions. Describe the circulation and hemodynamics in a child with a Tetralogy of Fallot (TOF). What the acute and late complications in achild with TOF? How will you manage a child with a hypercyanotic spell? 2 + 2 + 3 + 3

5. Describe the complement pathway and disorders of complement pathway in children? 5+5

6. What is Antibiotic stewardship ? What measures will you take as a Paediatric ICU In-charge to reduce the risk of anitibiotic resistance in your ICU. 5 + 5

7. How will you make an assessment about severity of dehydration in in an infant? What are the constituents of hypo-osmolar ORS ? How will you manage an infant with acute watery diarrhoea who not passed urine for past 8 hours and has weak thread pulse ? 3 + 2 + 5

8. Write in brief the assessment of severity of bronchial asthn and pharmacotherapy for management of acute severe asthma ? 5 + 5

9. Describe the perinatal management of an HIV positive mother and her newborn aimed at preventing mother to child transmission of infection? How will you perform confirmatory testing and follow-up the infant? 5 + 5

10. What are the types of research studies? What are the CONSORT guidelines. 5 + 5