УТВЕРЖДАЮ
Заведующий 1-й кафедрой
детских болезней, доцент
_____Н.М. Тихон
«08»____12_____2022г.

EXAM QUESTIONS ON PEDIATRICS FOR 5 YEARS STUDENTS FOR 2022/2023 ACADEMIC YEAR

1. Complex evaluation of child health condition. Determining criteria.
2. Complex evaluation of child health condition. Characterizing criteria.
3. Immunoprophylaxis. Definition. Types.
4. Vaccination schedule for children.
5. Age-related development periods.
6. Anatomy and physiology of the musculoskeletal system in children. Age-related features. Teeth eruption.
7. Anatomy and physiology of digestive system in infants and toddlers. Age-related features. Carbohydrate, protein, fat digestion in gastrointestinal tract.
8. Assessment of physical growth (length/height, body weight, head and chest circumferences). Growth charts.
9. Factors influencing physical growth and development.
10. Sexual development. Sexual maturity rating (Tanner's stages).
11. Language development of infant and children (stages).
12. Key developmental milestones (gross motor development).
13. Key developmental milestones (fine motor development).
14. Anatomy and physiology of the respiratory tract in children. Age-related features.
15. Anatomy and physiology of the cardiovascular system in children. Age-related features.
16. Anatomy and physiology of the urinary tract in children. Age-related features. Kidney function tests.
17. Complete blood count with white blood cell differential in children. Children's reference ranges.
18. Biological role and advantages of breastfeeding.
19. Contraindications to breastfeeding.
20. Modern approach to organization of newborn feeding. Feeding of full term and preterm newborn babies.
21. Breastfeeding. Definitions. Rules.
22. Weaning and complementary feeding. Timing and rules of solid foods introduction.
23. Ten steps to successful breastfeeding by WHO.
24. Diet for healthy breastfeeding mothers.
25. Hypogalactyia. Determining adequacy of milk supply. Management.
26. Partial (Combine) breastfeeding and formula-feeding. Sings of inadequacy breast milk supply. Timing of solid foods introduction.

27. Classification of substitute breast milk formulas.
28. Assessment of the gestational age of the newborn. Morphologic and functional maturity. Initial and daily care of newborns.
29. Assessment of the status of newborns after birth by Apgar score.
30. Transitory conditions of neonates.
31. Purulent-inflammatory diseases of skin. Clinical manifestation.
32. Hemolytic disease of the newborn. Classification. Diagnosis. Principles of treatment.
33. Neonatal sepsis. Classification. Risk factors. Diagnosis. Principles of treatment.
34. Differential diagnosis of physiologic and pathologic jaundice.
35. Definition of «nutritional rickets». Risk factors for nutritional rickets. Pathogenesis of rickets.
36. Vitamin D biologic function. Role of vitamin D in rickets development.
37. Rickets. Clinical signs. Classification.
38. Diagnosis of rickets. Instrumental and laboratory tests. Assessment of vitamin D status.
39. Prevention and treatment of nutritional rickets. Vitamin D toxicity.
40. Infantile tetany (spasmophilia). Latent and manifest form. Diagnostics. Treatment.
41. Hypervitaminosis D. Classification. Diagnostics. Treatment.
42. Bronchitis. Clinical signs and diagnostic criteria. Treatment.
43. Croup. Causes. Clinical presentation. Treatment.
44. Epiglottitis. Causes. Symptoms. Treatment.
45. Differential diagnosis of the upper and lower airway obstructions.
46. Lower airway obstruction and wheezing syndrome. Clinical presentation. Treatment.
47. Pneumonia. Classification.
48. Pneumonia. Clinical signs and diagnostic criteria.
49. Pneumonia. Indications for hospitalization. Treatment.
50. Pneumonia. Pulmonary complications. Principles of treatment.
51. Pneumonia. Extrapulmonary complications. Principles of treatment.
52. Atypical pneumonia in children. Treatment.
53. Foreign body aspiration. Diagnostics. Emergency help.
54. Chronic lung diseases. Causes. Clinical manifestations. Morphological changes.
55. Chronic lung diseases of genetic origin: cystic fibrosis (pulmonary manifestations), primary ciliary dyskinesia (Kartagener syndrome), α_1-antitrypsin deficiency.
56. Bronchial asthma. Definition. Classification.
57. Bronchial asthma. Age related clinical manifestations
58. Bronchial asthma. Diagnosis in children.
59. Principles of asthma pharmacotherapy. Long-term controller and quick-relievers medications.

60. Stepwise (step-up and step-down) approach to long-term management of asthma.
61. Asthma exacerbations and status asthmaticus. Emergency treatment.
62. Atopic dermatitis in children.
63. Acute rheumatic fever. Definition. Risk factors and etiology. Pathogenetic stages. Classification
64. Acute rheumatic fever. Diagnostic criteria.
65. Rheumatic chorea in children (Sydenham chorea). Definition. Clinical manifestations.
66. Acute rheumatic fever. Treatment. Primary and secondary prevention.
67. Congenital heart diseases. Classification. Diagnosis. General principles of treatment.
68. Congenital heart diseases with the left-to-right shunt lesions (acyanotic).
69. Congenital heart diseases with the right-to-left shunt lesions (with cyanosis)
70. Congenital heart diseases with the obstructive lesions.
71. Nonreumathic miocarditis. Etiology. Diagnosis. Principles of treatment.
72. Heart failure. Definition. Classifications of pediatric heart failure.
73. Left-sided congestive heart failure. Clinical manifestations. Treatment.
74. Right-sided congestive heart failure. Clinical manifestations. Treatment.
75. Diagnostic approach to heart failure (investigations and laboratory biomarkers).
76. Therapeutic approach to pediatric heart failure.
77. Juvenile rheumatoid arthritis. Etiology. Clinical manifestations.
78. Juvenile rheumatoid arthritis. Treatment
79. Definition of «anemia». Classification.
80. Iron absorption and metabolism. Stages of iron deficiency.
81. Iron deficiency anemia in children. Causes. Clinical signs.
82. Iron deficiency anemia in children. Diagnosis. Treatment.
83. Iron deficiency anemia in children. Treatment.
84. Hemolytic anemia. Classification. Diagnosis.
85. Henoch-Schönlein purpura. Pathogenesis. Clinical presentation.
86. Henoch-Schönlein purpura. Diagnosis. Treatment.
87. Immune thrombocytopenia. Pathogenesis. Clinical presentation.
88. Immune thrombocytopenia. Diagnosis. Treatment.
89. Hemophilia in children. Pathogenesis. Diagnosis. Treatment.
90. Leukemia. Classification. Clinical manifestations.
91. Acute lymphoblastic leukemia. Treatment strategy. Prognosis
92. Urinary tract infections. Definition. Classification. Management.
93. Pyelonephritis. Etiology. Classification. Diagnostic criteria.
94. Pyelonephritis. Clinical manifestations in infants and toddlers.
95. Pyelonephritis. Clinical manifestations in older children.
96. Pyelonephritis. Treatment.
97. Glomerulonephritis. Definition. Clinical classification.

98. Acute poststreptococcal glomerulonephritis. Etiology. Pathogenesis. Clinical manifestations.
99. Acute poststreptococcal glomerulonephritis. Diagnostics. Differential diagnosis. Treatment.
100. Chronic glomerulonephritis. Definition. Morphological types.
101. Nephrotic syndrome. Diagnostic criteria.
102. Minimal change nephrotic syndrome in children. Clinical manifestations. Diagnostics. Differential diagnosis. Treatment.
103. Chronic glomerulonephritis with nephritic syndrome. Differential diagnosis.
104. Acute kidney injury. Definition. Types. Causes.
105. Acute kidney injury in children. p-RIFLE classification.
106. Acute kidney injury in children. Clinical features. Laboratory biomarkers.
107. Management of acute kidney injury in children. Prognosis.
108. Chronic kidney disease in children. Definition. Clinical features. Classification.
109. Differential diagnosis of abdominal pain syndrome in children.
110. Diagnosis of Helicobacter pylori infection.
111. Functional dyspepsia. Types. Clinical manifestations.
112. Chronic gastritis. Sydney system for the classification.
113. Peptic ulcer in children.
114. Helicobacter pylori eradication therapy.
115. Functional biliary disorders in children. Classification. Diagnostic criteria.
116. Chronic pancreatitis. Clinical manifestations. Diagnosis. Treatment.
117. Malnutrition. Types. Criteria for classifications of undernutrition.
118. Causes of undernutrition (protein-energy malnutrition).
119. Clinical manifestations of undernutrition. Main clinical syndromes.
120. Protein-energy malnutrition. Enteral and parenteral nutrition.
121. Celiac disease. Clinical manifestations. Diagnosis. Treatment.
122. Cystic fibrosis. Etiology. Pathogenesis. Types of clinical manifestations. Diagnostic criteria.
123. Cystic fibrosis. Gastrointestinal manifestations. Diagnosis. Treatment.
124. Cystic fibrosis. Respiratory manifestations. Diagnosis. Treatment.
125. Convulsions and seizures in children. Causes. Acute management of seizures. Post seizure care.
126. Fever. Definition. Causes. Management of pediatric patients with fever.
127. Congenital hypothyroidism.
128. β2-agonists. Indications for using.
129. Leukotriene modifiers. Indications for using.
130. Inhaled anticholinergics. Indications for using.
131. Antifungal drugs in pediatric practice. Indications for using.
132. Anticoagulants. Indications for using.
133. Inhaled and systemic glucocorticosteroids. Indications for using.
134. Antipyretics in pediatric practice. Indications for using.
135. Macrolide antibiotics.
136. Antiagregants. Indications for using.
137. Diuretics. Indications for using.

138. Nonsteroidal anti-inflammatory drugs in pediatric practice. Indications for using.
139. Mucolytics. Indications for using.
140. Aminoglycosides. Indications for using.
141. Penicillins. Indications for using.
142. Cephalosporins. Indications for using.
143. Anticonvulsants for acute management of pediatric seizures.
144. Iron supplements for anemia. Indications for using.
145. Anthihistamines. Indications for using.
146. Antiviral drugs in pediatric practice. Indications for using.
147. Methylxanthines. Indications for using.
148. Proton pump inhibitors. Indications for using.
149. Histamine H2-receptor antagonists. Indications for using.
150. Digestive enzyme supplements and pancreatic enzyme replacement therapy.