Exam test for Pediatrics

- 1) Hematopoiesis is divided into 3 anatomic stages:
  - 1. mesoblastic
  - 2. hepatic
  - 3. myeloid
  - 4. lymphatic
- 2) Mesoblastic hematopoiesis means cellular elements of blood are formed at:
  - 1. Yolk sac
  - 2. Liver
  - 3. Mesotrofoblast
  - 4. Bone marrow
- 3) Myeloid hematopoiesis means cellular elements of blood are formed at:
  - 1. Yolk sac
  - 2. Liver
  - 3. Placenta
  - 4. Bone marrow
- 4) After birth the principal site of hemotopoiesis is:
  - 1. Bone marrow
  - 2. Liver
  - 3. Lymph nodes
  - 4. Spleen
  - 5. Thymus

# 5) Megakaryocytes are precursors of...:

- 1. Erythrocytes
- 2. Neutrophils
- 3. Platelets
- 4. Granulocytes
- 6) List the types of hemoglobin:
  - 1. Embryonic type (HbP/HbE)
  - 2. Fetal type (HbF)
  - 3. Child type (HbC)
  - 4. Adult type (HbA)
- 7) Predominant type of hemoglobin in children above 1 year of age is...:
  - 1. Embryonic type (HbP/HbE)
  - 2. Fetal type (HbF)
  - 3. Child type (HbC)
  - 4. Adult type (HbA)

- 8) Predominant type of hemoglobin in infants at first months after birth is...:
  - 1. Embryonic type (HbP/HbE)
  - 2. Fetal type (HbF)
  - 3. Child type (HbC)
  - 4. Adult type (HbA)
- 9) Physiologic anemia of infancy occurs at age...:
  - 1. 4-5 day
  - 2. 1 month
  - 3. 2-3 month
  - 4. 6 month
- 10) Which options are correct for physiologic anemia of infancy?
  - 1. There is no hematological problem
  - 2. No therapy is required
  - 3. Rarely falls below 100 g/l
  - 4. Therapy with iron medications is required
- 11) The normal platelet count for children ranges:
  - 1. 100-320\*10^(9)/L
  - 2. 150-450\*10^(9)/L
  - 3. 180-500\*10^(9)/L
- 12) Thrombocytopenia refers to a reduction in platelet count:
  - 1. less 100\*10^(9)/L
  - 2. less 150\*10^(9)/L
  - 3. more 450\*10^(9)/L
- 13) After birth, the neutrophil count is:
  - 1. 20-30%
  - 2. 45%
  - 3. 60-70%
- 14) After birth, the lymphocytes count is:
  - 1. 20-30%
  - 2. 45%
  - 3. 60-70%
- 15) The first physiological decussation (number of neutrophils and lymphocytes counts are equal) occurs:
  - 1. after birth
  - 2. on the 4-5th day of life
  - 3. in 2-3 months
  - 4. at 4-5 years

- 16) The second physiological decussation (number of neutrophils and lymphocytes counts are equal) occurs:
  - 1. after birth
  - 2. on the 4-5th day of life
  - 3. in 2-3 months
  - 4. at 4-5 years
- 17) Neutropenia is diagnosed in children under 1-year-old if:
  - the absolute neutrophil count is below 1,0\*10^(9)/L (or less than 1000 cells in 1 mcL)
  - the absolute neutrophil count is below 1,5\*10^(9)/L (or less than 1500 cells in 1 mcL)
- 18) Neutropenia is diagnosed in children older 1 year:
  - 1. the absolute neutrophil count is below 1,0\*10^(9)/L (or less than 1000 cells in 1 mcL)
  - the absolute neutrophil count is below 1,5\*10^(9)/L (or less than 1500 cells in 1 mcL)
- 19) List the stages of iron deficiency:
  - 1. Prelatent stage (iron depletion)
  - 2. Latent stage (iron deficiency or sideropenia)
  - 3. Postlatent stage (iron deficiency)
  - 4. Stage of iron deficiency anemia
- 20) Anemia is defined as a reduction (below the normal age- dependent range) of...:
  - 1. The amount of red blood cells in blood
  - 2. The hemoglobin concentration in blood
  - 3. The hemoglobin concentration in bone marrow
  - 4. The amount of platelets in the blood
- 21) Children aged 6 months to 6 years are considered anemic if hemoglobin level:
  - 1. less than 11 g/dL
  - 2. less than 12 g/dL
  - 3. less than 15 g/dL
- 22) Children aged 6-14 years are considered anemic at hemoglobin level:
  - 1. less than 12 g/dL
  - 2. less than 13 g/dL
  - 3. less than 15 g/dL
- 23) Normal red blood cell morphology is characterized by a donut shape with the center 1/3 of the red cell being pale or without hemoglobin:

- 1. True
- 2. False
- 24) Initial laboratory testing for anemia should include:
  - 1. Hemoglobin
  - 2. Hematocrit
  - 3. Red cell indices
  - 4. Reticulocyte count
  - 5. Examination of the peripheral blood smear
  - 6. All listed above
- 25) The normal reticulocyte percentage of total RBCs during of childhood is approximately:
  - 1. 0,01%
  - 2. 0,1%
  - 3. 1%
  - 4. 10%
- 26) Decreased RBC production may be a consequence of:
  - 1. Ineffective erythropoiesis
  - 2. Complete or relative failure of erythropoiesis
  - 3. Hemolysis
  - 4. Bleeding
- 27) Increased destruction RBC may be a consequence of:
  - 1. Ineffective erythropoiesis
  - 2. Complete or relative failure of erythropoiesis
  - 3. Hemolysis
  - 4. Sequestration
- 28) Microcytosis and low or inadequate reticulocyte counts are observed with:
  - 1. Chronic disease or inflammation
  - 2. Iron deficiency anemia
  - 3. Sideroblastic anemia
  - 4. All listed above
- 29) Microcytosis and elevated reticulocyte counts are observed with:
  - 1. Thalassemia syndromes
  - 2. Iron deficiency anemia
  - 3. Folate deficiency
  - 4. Vitamin B-12 deficiency
- 30) Macrocytosis and low or inadequate reticulocyte counts are observed with:

- 1. Folate deficiency
- 2. Vitamin B-12 deficiency
- 3. Iron deficiency anemia
- 31) Indicators of accelerated erythrocyte destruction (hemolytic anemias) are:
  - 1. Reticulocytosis
  - 2. Indirect hyperbilirubinemia
  - 3. Increased serum lactate dehydrogenase
  - 4. Elevated troponin I
- 32) Select the laboratory criteria for folic acid deficiency anemia:
  - 1. Macrocytic anemia
  - 2. Microcytic anemia
  - 3. Low or inadequate reticulocyte counts
  - 4. Levels of iron and vitamin B-12 in serum are normal or elevated
  - 5. Serum folic acid levels are low
- 33) Select the laboratory criteria for vitamin B-12 deficiency anemia:
  - 1. Macrocytic anemia
  - 2. Microcytic anemia
  - 3. Low or inadequate reticulocyte counts
  - 4. Serum vitamin B-12 levels are low
  - 5. Excessive excretion of methylmalonic acid in the urine
- 34) Select the laboratory criteria for iron deficiency anemia:
  - 1. Macrocytic anemia
  - 2. Microcytic anemia
  - 3. Reduced serum ferritin
  - 4. Decreased serum iron levels
  - 5. Increased soluble transferrin receptors
- 35) The therapeutic daily dose of elemental iron is:
  - 1. 0,5-1 mg/kg in 3 divided doses
  - 2. 3-6 mg/kg in 3 divided doses
  - 3. 10 mg/kg in 3 divided doses
- 36) Choose conditions for the use of parenteral iron preparations:
  - 1. Intolerance to oral iron preparations
  - 2. Malabsorption
  - 3. Severe anemia
  - 4. Poor compliance
  - 5. All listed above

- 37) The typical clinical and laboratory features of the hereditary spherocytosis (Minkowski-Chauffard disease) are:
  - 1. Splenomegaly
  - 2. Hemolytic anemia
  - 3. Microspherocytes in the blood smear
  - 4. Low or inadequate reticulocyte counts
- 38) Anemias are categorized on the basis of MCV (mean corpuscular volume) for:
  - 1. Hyperchromic
  - 2. Hypochromic
  - 3. Macrocytic
  - 4. Microcytic
  - 5. Normochromic
  - 6. Normocytic

39) Anemias are categorized on the basis of MCHC (mean corpuscular hemoglobin concentration) and MCH (mean corpuscular hemoglobin) for:

- 1. Hyperchromic
- 2. Hypochromic
- 3. Macrocytic
- 4. Microcytic
- 5. Normochromic
- 6. Normocytic

40) Hyperchromic anemia is diagnosed if mean corpuscular hemoglobin concentration (MCHC):

- 1. over 36 g/dL
- 2. 32-36 g/dL
- 3. below 32 g/dL
- 4. over 100 fl
- 41) Normochromic anemia is diagnosed if mean corpuscular hemoglobin concentration (MCHC):
  - 1. over 36 g/dL
  - 2. 32-36 g/dL
  - 3. below 32 g/dL
  - 4. 75-100 fl
- 42) Hypochromic anemia is diagnosed if mean corpuscular hemoglobin concentration (MCHC):
  - 1. over 36 g/dL
  - 2. 32-36 g/dL
  - 3. below 32 g/dL
  - 4. below 75 fl

- 43) Macrocytic anemia is diagnosed if mean corpuscular volume (MCV):
  - 1. 75-100 fl
  - 2. over 100 fl
  - 3. below 75 fl
  - 4. over 36 g/dL
- 44) Microcytic anemia is diagnosed if mean corpuscular volume (MCV):
  - 1. 75-100 fl
  - 2. over 100 fl
  - 3. below 75 fl
  - 4. below 32 g/dL
- 45) Normocytic anemia is diagnosed if mean corpuscular volume (MCV):
  - 1. 75-100 fl
  - 2. 32-36 g/dL
  - 3. over 100 fl
  - 4. below 75 fl
- 46) Choose examples of microcytic anemias:
  - 1. Thalassemia
  - 2. Iron deficiency anemia
  - 3. B-12 deficiency anemia
  - 4. Folic acid deficiency anemia
- 47) Choose examples of macrocytic anemias:
  - 1. B-12 deficiency anemia
  - 2. Iron deficiency anemia
  - 3. Folic acid deficiency anemia
  - 4. Thalassemia
- 48) Choose examples of hypochromic anemias:
  - 1. Thalassemia
  - 2. Iron deficiency anemia
  - 3. B-12 deficiency anemia
  - 4. Folic acid deficiency anemia
- 49) Choose examples of hyperchromic anemias:
  - 1. Thalassemia
  - 2. Iron deficiency anemia
  - 3. B-12 deficiency anemia
  - 4. Folic acid deficiency anemia
- 50) Choose examples of normochromic anemias:
  - 1. Iron deficiency anemia

- 2. Hypoplastic anemia
- 3. Hemolytic anemia
- 4. B-12 deficiency anemia
- 5. Folic acid deficiency anemia
- 51) The pain felt when tapping over the right costal arch by the edge of the hand is:
  - 1. Ortner's symptom
  - 2. Georgievskiy-Mussy's symptom
  - 3. Murphy's symptom
- 52) Name the point of a gallbladder projection:
  - 1. Kehr's point
  - 2. Mayo-Robson's point
  - 3. Desjardin's point
- 53) Acute pain in the right hypochondrium during inhalation, while the examiner presses on gallbladder area is:
  - 1. Ortner's symptom
  - 2. Georgievskiy-Mussy's symptom
  - 3. Murphy's symptom
- 54) Tenderness at the point of the phrenic nerve, between the crurae of the right sternocleidomastoid muscle is:
  - 1. Ortner's symptom
  - 2. Georgievskiy-Mussy's symptom
  - 3. Murphy's symptom
- 55) If you palpate liver +1 cm below the right costal margin in child up to 5yers of age:
  - 1. it is normal
  - 2. it is pathological sign
- 56) Which of the following represents the most common type of gallstone?
  - 1. pigment stones
  - 2. protein stones
  - 3. calcium carbonate stones
  - 4. cholesterol stones
  - 5. mixed stones
- 57) Functional biliary disorders (biliary diskinesia) include following:
  - 1. cholelithiasis
  - 2. functional gallbladder disorder
  - 3. functional pancreatic sphincter of Oddi disorder

- 4. functional biliary sphincter of Oddi disorder
- 58) Which of the following clinical-laboratory findings suggest acute calculous cholecystitis?
  - 1. Murphy's sign
  - 2. fever
  - 3. leukocytosis
  - 4. all listed above
- 59) Which characteristics of biliary-type abdominal pain (biliary colic) are correct?
  - 1. severe epigastric or right upper quadrant pain
  - 2. might radiate through to the back and right infrascapular regions
  - 3. last at least thirty minutes but less than 6 hours
  - 4. can be associated with nausea and vomiting
  - 5. no structural basis to explain the pain
- 60) Gallbladder emptying (ejection fraction) on gallbladder scintigraphy is assessed as normal if:
  - 1. less than 35%
  - 2. more than 35%
- 61) Cholelithiasis can lead to complications...:
  - 1. acute calculous cholecystitis
  - 2. obstructive cholangitis due to choledocholithiasis
  - 3. gallstone pancreatitis
  - 4. peptic ulcer disease
- 62) Diagnostic criteria for functional gallbladder disorder (according to Rome IV criteria) are following:
  - 1. biliary pain
  - 2. absence of gallstones or other structural pathology
  - 3. normal liver and pancreatic enzymes
  - 4. detection of biliary sludge
  - 5. increased level of conjugated bilirubin
  - 6. low ejection fraction on gallbladder scintigraphy
- 63) Diagnostic criteria for functional biliary sphincter of Oddi disorder are following:
  - 1. biliary pain
  - 2. elevated liver enzymes or bile duct dilation (not both)
  - 3. normal amylase and lipase
  - 4. presence of bile duct stones

- 64) Diagnostic criteria of functional pancreatic sphincter of Oddi disorder are following:
  - 1. biliary pain
  - 2. elevated amylase
  - 3. elevated liver enzymes
  - 4. documented recurrent episodes of pancreatitis
  - 5. exclusion of other etiology of pancreatitis
- 65) Biliary dyskinesia implies a motility disorder resulting from abnormal motor function of the:
  - 1. gallbladder (manifest as impaired emptying)
  - 2. sphincter of Oddi
  - 3. pancreas
  - 4. duodenum
- 66) Which tests are useful for assessment liver function?
  - 1. alanine and aspartate transaminase (ALT, AST)
  - 2. alkaline phosphatase (ALP), gamma-glutamyl transpeptidase (GGTP)
  - 3. clotting tests (PT, INR, fibrinogen)
  - 4. bilirubin (direct, indirect)
  - 5. albumin
- 67) Which enzymes will be increased in blood in patients with pancreatitis:
  - 1. lipase
  - 2. amylase
  - 3. alanine transaminase (ALT)
  - 4. elastase-1
- 68) Cholestasis is characterized by the following:
  - 1. direct hyperbilirubinemia (more than 50% of total bilirubin)
  - 2. indirect hyperbilirubinemia (more than 50% of total bilirubin)
  - 3. increased alkaline phosphatase
  - 4. increased gamma-glutamyl transpeptidase (GGTP)
  - 5. increased aspartate transaminase
- 69) Which of the following is most common in children? (one answer):
  - 1. cholelithiasis
  - 2. acute acalculous cholecystitis
  - 3. cholangitis
  - 4. functional gallbladder disorder
- 70) Which pancreatic enzyme are useful to assess pancreatic function?
  - 1. bilirubin (direct, indirect)
  - 2. albumin

- 3. alanine transaminase (ALT)
- 4. fecal elastase-1
- 71) Select a physiological features of the oral cavity in term-neonate:
  - 1. buccae of Bitchat
  - 2. salivary glands produce a lot of saliva
  - 3. procheilon, transversal folds on the lips
  - 4. the tongue completely fills the oral cavity
  - 5. the mouth cavity is big
  - 6. "geographic" tongue
- 72) What is the stomach volume in 1 mo old child?
  - 1. 10 ml
  - 2. 100ml
  - 3. 250
  - 4. 500
- 73) How swallowing of excessive amount of air while taking food is termed?
  - 1. aspiration
  - 2. regurgitation
  - 3. aerophagia
  - 4. rumination
- 74) How abnormal excretion of muscle fiber in feces is termed?
  - 1. creatorrhea
  - 2. steatorrhea
  - 3. amilorrhea
- 75) How the presence of excess fat in feces is called?
  - 1. creatorrhea
  - 2. steatorrhea
  - 3. amilorrhea

# 76) Select types of peptic ulcers:

- 1. gastric
- 2. duodenal
- 3. intestinal
- 4. primary
- 5. secondary

77) How many primary teeth have got a 3-yrs old child?

- 1. 10
- 2. 18
- 3. 20

- 4. 25
- 78) Select correct statements for primary peptic ulcers:
  - 1. it is chronic disease
  - 2. more often in children is duodenal ulcers
  - 3. associated with H. pylori infection
  - 4. more often in children is gastric ulcers
  - 5. it is result of NSAIDs using or stress
  - 6. synonymous is peptic ulcer disease
- 79) Select correct statements for secondary peptic ulcers:
  - 1. usually an acute process
  - 2. it is chronic
  - 3. associated with H. pylori infection
  - 4. more often in children is gastric ulcers
  - 5. it is result of NSAIDs using or stress
  - 6. more often in children is duodenal ulcers
- 80) Select protective factors for gastric and duodenal mucosa:
  - 1. prostaglandin secretion
  - 2. adequate perfusion of the gastric wall
  - 3. acid and pepsin secretion
  - 4. epithelial regeneration capacity
  - 5. mucus and bicarbonate secretion
  - 6. gastrin secretion
  - 7. H. pylori infection
- 81) Select aggressive factors for gastric and duodenal mucosa:
  - 1. prostaglandin secretion
  - 2. acid and pepsin secretion
  - 3. gastrin secretion
  - 4. mucus and bicarbonate secretion
  - 5. H. pylori infection
  - 6. oxidative stress
  - 7. bile refluxes
- 82) Abdominal pain in children with peptic ulcer disease is characterized by:
  - 1. dull pain or intermittent abdominal discomfort
  - 2. nocturnal pain
  - 3. acute burning abdominal pain
  - 4. poorly localized abdominal pain
  - 5. typically occurring several hours after a meal or in an empty stomach, often being relieved by eating
  - 6. accompanied by bloating, nausea and vomiting

- 83) Which method is used to confirm peptic ulcer disease (one answer)?
  - 1. esophagogastroduodenoscopy
  - 2. abdominal ultrasound
  - 3. abdominal X-ray
  - 4. CT scan
  - 5. blood tests
- 84) Which complication is the most common in peptic ulcer disease (one answer)?
  - 1. bleeding
  - 2. perforation
  - 3. penetration
  - 4. pyloroduodenic stenosis
- 85) Which tests are preferred to control H. pylori eradication?
  - 1. urea breath test
  - 2. serology testing
  - 3. culture
  - 4. histology
  - 5. rapid urease test
  - 6. stool antigen test
- 86) Which of these drugs are proton pump inhibitors?
  - 1. omeprazole
  - 2. metronidazole
  - 3. lansoprazole
  - 4. rabeprazole
- 87) Which of following is included for quadruple therapy additionally to triple scheme?
  - 1. bismuth salts
  - 2. vancomycine
  - 3. famotidine
- 88) First-line treatment of H. pylori infection is:
  - 1. PPI-furazolidone- metronidazole
  - 2. Bismuth salts-PPI- metronidazole- tetracycline
  - 3. PPI-clarithromycin-amoxicillin
- 89) Which of the following are "red flags" symptoms for functional gastrointestinal dysfunction:
  - 1. weight loss
  - 2. bloating
  - 3. bleeding

- 4. anaemia
- 5. progressive dysphagia or odynophagia
- 6. nausea
- 90) Select the histamine H2-receptor antagonists:
  - 1. cimetidine
  - 2. famotidine
  - 3. ranitidine
  - 4. omeprazole
  - 5. metronidazole
- 91) Which gastritis type according by etiology-based classification do you know?
  - 1. H. pylori-induced
  - 2. chemically induced gastritis (drugs) / reactive gastritis (duodenal refluxes)
  - 3. autoimmune gastritis
  - 4. special forms of gastritis (eosinophilic, lymphocytic, granulomatouse, associated with systemic diseases)
  - 5. erosive gastritis
- 92) Worldwide the most common cause of chronic gastritis is:
  - 1. infection with H. pylori
  - 2. drug-induced
  - 3. autoimmune gastritis

#### 93) Secondary ulcers are usually associated with:

- 1. stress
- 2. sepsis
- 3. severe trauma, burns
- 4. drug therapy (steroids and NSAIDs)
- 94) Gastritis is a histological term exclusively which refers to different type of gastric inflammation?
  - 1. true
  - 2. false
- 95) How painful swallowing is termed?
  - 1. Odynophagia
  - 2. Rumination
  - 3. Dysphagia
  - 4. Tenesmus
  - 5. Heatburn

- 96) Functional dyspepsia is characterized by one or more of the following symptoms that are unexplained after a routine clinical evaluation:
  - 1. postprandial fullness
  - 2. early satiation
  - 3. epigastric pain / burning
  - 4. vomiting
  - 5. diarrhea
- 97) Secondary dyspepsia is term which used to describe symptoms of dyspepsia caused by organic or metabolic diseases like:
  - 1. peptic ulcer disease
  - 2. pancreaticobiliary disease
  - 3. endocrine disorders
  - 4. medication use
  - 5. all listed above
- 98) A 10-year old girl has a 3-month history of intermittent burning epigastric pain that is made worse by fasting and improves with meals. She has no other symptoms. Parents were giving her ibuprofen 3 times a day for 1 week when she had a cold. Physical examination discloses only mild epigastric tenderness to palpation, vital signs are normal. Which of following diagnostic study should be done first?
  - 1. abdominal ultrasonography
  - 2. serologic testing for H.pylory
  - 3. esophagogastroduodenoscopy
  - 4. upper gastrointestinal barium study
- 99) Helicobacter pylori associated dyspepsia is diagnosed if:
  - 1. dyspepsia symptoms disappear after H. pylori eradication
  - 2. revealed H. pylori in patients with dyspepsia
  - 3. excluded gastritis, peptic ulcer disease
- 100) Functional dyspepsia is classified in next subcategories:
  - 1. epigastric pain syndrome
  - 2. postprandial distress syndrome
  - 3. vomiting-pain syndrome
- 101) First-line therapy for functional dyspepsia includes next drugs:
  - 1. proton pump inhibitors or H2-receptors antagonists
  - 2. prokinetic drugs (cisapride, domperidone)
  - 3. antidepressants
- 102) Second-line drugs for functional dyspepsia include (one answer):
  - 1. proton pump inhibitors or H2RAs
  - 2. prokinetic drugs (cisapride, domperidone)

- 3. antidepressants
- 4. psychological therapy
- 103) Select invasive methods of H. pylori diagnosis:
  - 1. urea breath test
  - 2. culture
  - 3. histology
  - 4. rapid urease test
  - 5. stool antigen test

#### 104) Select non-invasive methods of H. pylori diagnosis:

- 1. urea breath test
- 2. culture
- 3. histology
- 4. rapid urease test
- 5. serology testing
- 105) Serology testing for H. pylori infection is not recommended for clinical use:
  - 1. true
  - 2. false
- 106) Before testing for H. pylori eradication you have to wait:
  - 1. at least 2 weeks after stopping PPIs
  - 2. 2 days after stopping PPIs maximum
  - 3. 4 weeks after stopping antibiotics
  - 4. 4 days after stopping antibiotics maximum
  - 5. shouldn't wait any time
- 107) Recommended duration of H. pylori eradication therapy is:
  - 1. 10-14 days
  - 2. 5-7 days
  - 3. 14-20 days
- 108) Sydney System for the classification of gastritis combines:
  - 1. topographical information
  - 2. morphological information
  - 3. etiological information
  - 4. clinical information
- 109) There are several categories of gastritis according morphological picture:
  - 1. acute
  - 2. chronic
  - 3. special forms

- 4. subacute
- 110) Which histological change should be described to confirm chronic inflammation of gastric mucosa (chronic gastritis)?
  - 1. increased lymphocytes and plasma cells in the lamina propria
  - 2. neutrophilic infiltrates in the lamina propria
  - 3. eosinophilic infiltrates in the lamina propria
- 111) Which histological changes should be described to assess activity of inflammation of gastric mucosa?
  - 1. lymphocytes and plasma cells infiltration in the lamina propria
  - 2. neutrophilic infiltration in the lamina propria
- 112) What does it mean «chronic active gastritis»?
  - 1. increased lymphocyte cells and neutrophils infiltration in mucosa
  - 2. increased lymphocyte cells infiltration cells in mucosa
  - 3. increased neutrophil cells infiltration in mucosa
- 113) Which parameters should be described in histological assessment of biopsy specimens from gastric mucosa according to Sydney system?
  - 1. topographical distribution (antrum, fundus, corpus)
  - 2. chronic inflammation grade (low, moderate, severe)
  - 3. activity level (low, moderate, severe, absent)
  - 4. atrophy (present, absent)
  - 5. intestinal metaplasia (present, absent)
  - 6. H.pylori (low, moderate, severe, absent)
- 114) Grading of chronic inflammation or activity level (as low, moderate or severe) is determined by density of infiltration of the lamina propria with lymphocytes, plasma cells, neutrophils?
  - 1. true
  - 2. false
- 115) The Sydney classification of gastritis includes:
  - 1. histological parameters of activity and chronicity
  - 2. histological parameters of atrophy, intestinal metaplasia
  - 3. topographical distribution
  - 4. etiopathogenic information
  - 5. all listed above
- 116) Select causes of hematuria in children:
  - 1. minimal change disease
  - 2. Alport syndrome
  - 3. IgA nephropathy

- 4. poststreptococcal glomerulonephritis
- 117) Choose a classic example of the acute nephritic syndrome:
  - 1. IgA nephropathy
  - 2. Alport syndrome
  - 3. poststreptococcal glomerulonephritis
  - 4. minimal change disease
- 118) The most common cause of chronic nephritic syndrome in children is:
  - 1. IgA nephropathy
  - 2. poststreptococcal glomerulonephritis
  - 3. membranous nephropathy
- 119) Acute nephritic syndrome characterized by classic triad:
  - 1. gross hematuria
  - 2. edema
  - 3. hypertension
  - 4. nephrotic range proteinuria
- 120) Poststreptococcal GN is most common in children ages...:
  - 1. 5-12 yr
  - 2. 2-6 yr
  - 3. 15-18 yr
- 121) What causes acute poststreptococcal glomerulonephritis?
  - 1. nephritogenic strains of group A beta-hemolytic streptococci
  - 2. any strains of group A beta-hemolytic streptococci
  - 3. Streptococcus pyogenes
- 122) Poststreptococcal glomerulonephritis may develop...:
  - 1. 1 to 2 weeks after a streptococcal pharyngitis
  - 2. 1 to 2 weeks after a streptococcal pneumonia
  - 3. 3 to 6 weeks after a streptococcal celulitis
  - 4. 3-6 weeks after impetigo
- 123) How does C3 level of complement in patient with poststreptococcal glomerulonephritis change?
  - 1. significantly reduced
  - 2. stayed in normal range
  - 3. increased
- 124) How many times it takes to C3 level of complement in patient with poststreptococcal glomerulonephritis returns to normal after onset?
  - 1. 6-8 wk
  - 2. 1-2 wk

- 3. 3-6 mo
- 125) Select options for streptococcal infection confirmation:
  - 1. throat culture
  - 2. antistreptolysin O titer in blood
  - 3. antideoxyribonuclease B level in blood
  - 4. strepto-test

# 126) Cola-colored or tea-colored urine is a sign of:

- 1. gross hematuria
- 2. micro hematuria
- 3. 1 and 2
- 127) What is pathogenetic mechanism of poststreptococcal glomerulonephritis?
  - 1. immediate type hypersensitivity (I type hypersensitivity reaction)
  - 2. cytoxic mechanism (type II hypersensitivity reaction)
  - 3. immune-complex-mediated mechanism (type III hypersensitivity)
  - 4. delayed type (type IV hypersensitivity reaction)
- 128) Which changes in urine analysis are specific for poststreptococcal glomerulonephritis?
  - 1. macroscopic hematuria
  - 2. microscopic hematuria
  - 3. RBC casts
- 129) Which changes in urine analysis are specific for poststreptococcal glomerulonephritis?
  - 1. mild proteinuria
  - 2. moderate proteinuria
  - 3. massive proteinuria
- 130) Renal biopsy is recommended for diagnosing children with poststreptococcal glomerulonephritis:
  - 1. true
  - 2. false
- 131) Oliguria and other acute kidney injury signs can accompany poststreptococcal glomerulonephritis in acute phase:
  - 1. true
  - 2. false
- 132) Renal biopsy for children with poststreptococcal glomerulonephritis is indicated when...:
  - 1. age less4yr

- 2. age more5yr
- 3. normal complement levels
- 4. absence of evidence of streptococcal infection
- 5. hematuria which accompanied by nephrotic syndrome
- 133) Renal biopsy is considered in children with poststreptococcal glomerulonephritis if present following symptoms:
  - 1. C3 complement level didn't restore in 6-8 wk after onset
  - 2. persistent hypertension
  - 3. renal function is worsening progressively
  - 4. persistent gross hematuria
- 134) Which approach to treatment of poststreptococcal glomerulonephritis is correct?
  - 1. only symptomatic treatment is needed
  - 2. immune suppression is not useful
  - 3. steroids should be started at the very beginning
  - 4. systemic antibiotic therapy is indicated
- 135) Poststreptococcal glomerulonephritis in children has:
  - 1. excellent prognosis with complete recovery
  - 2. bad long-term prognosis due to developing chronic kidney disease
- 136) The main components of the hemostatic process are:
  - 1. vessel wall
  - 2. platelets
  - 3. coagulation proteins
  - 4. anticoagulant proteins
  - 5. fibrinolytic system
  - 6. all listed above
- 137) Hemostasis is divided into the following components:
  - 1. primary hemostasis
  - 2. secondary hemostasis
  - 3. fibrinolysis

# 138) Primary hemostasis is characterized by:

- 1. vasodilation
- 2. vasoconstriction
- 3. platelet adhesion and aggregation
- 4. formation of a platelet plug
- 139) Secondary hemostasis is characterized by:
  - 1. formation of fibrin
  - 2. platelet adhesion and aggregation

- 3. formation of a platelet plug
- 140) The coagulation cascade is classically divided into:
  - 1. intrinsic pathway
  - 2. extrinsic pathway
  - 3. common pathway
- 141) The intrinsic pathway involves the contact activation factors:
  - 1. factor VIII, IX, XI, XII, high molecular weight kininogen and prekallikrein
  - 2. tissue factor and factor VII
  - 3 .factor X, V, II, I (fibrinogen)
- 142) The extrinsic pathway involves:
  - 1. factor XII, XI, IX, VIII
  - 2. tissue factor and factor VII
  - 3. factor X, V, II, I
- 143) The common pathway involves:
  - 1. factor XII, XI, IX, VIII
  - 2. factor VII, and tissue factor
  - 3. factor X, V, II, I
- 144) Select proteins which work as anticoagulants in the clotting process:
  - 1. antithrombin III
  - 2. protein C
  - 3. protein S
  - 4. tissue factor pathway inhibitor
  - 5. all listed above

# 145) Petechiae is:

- 1. small, distinct pinpoint hemorrhages less than 2-4 mm in diameter
- 2. large, diffuse areas, usually black and blue in color
- 3. hemorrhages up to 1 cm

# 146) Petechial hemorrhages are typical for:

- 1. hemophilia A
- 2. hemophilia C
- 3. immune thrombocytopenia
- 4. Osler-Weber-Rendu syndrome
- 147) Hematoma, ecchymosis is:
  - 1. pinpoint hemorrhages less than 2-4 mm in diameter
  - 2. large, diffuse areas, usually black and blue in color
  - 3. hemorrhages up to 1 cm

- 148) Hematoma, ecchymosis are specific for:
  - 1. hemophilia A
  - 2. Henoch-Schonlein purpura
  - 3. immune thrombocytopenia
  - 4. Osler-Weber-Rendu syndrome
- 149) Purpura is:
  - 1. large, diffuse areas, usually black and blue in color
  - 2. pinpoint hemorrhages less than 2-4 mm in diameter
  - 3. pinpoint hemorrhages 4-10 mm in diameter
- 150) Purpuras are specific for:
  - 1. hemophilia A
  - 2 .Henoch-Schonlein purpura
  - 3. immune thrombocytopenia
  - 4. Osler-Weber-Rendu syndrome
- 151) Reference interval of activated partial thromboplastin time:
  - 1. less 24 seconds
  - 2. 24-35 seconds
  - 3. more 50 seconds
- 152) Activated partial thromboplastin time characterizes:
  - 1. the intrinsic and common pathway of coagulation cascade
  - 2. the extrinsic pathway of coagulation cascade
  - 3. function of platelets and their interaction with the vascular wall
- 153) Reference interval of prothrombin time and INR (international normalized ratio):
  - 1. 6-10 seconds and 1.2-1.8
  - 2. 12-15 seconds and 0.8-1.2
  - 3. 17-20 seconds and 0.5-0.8
- 154) Prothrombin time characterizes:
  - 1. the intrinsic pathway of coagulation cascade
  - 2. the extrinsic and common pathway of coagulation cascade
  - 3. function of platelets and their interaction with the vascular wall
- 155) The normal platelet count for children ranges:
  - 1. 100-320\*10^(9)/1
  - 2. 150-450\*10^(9)/1
  - 3. 180-550\*10^(9)/1
- 156) The risk of bleeding is highly increased if:

- 1. platelet count is less  $120 \times 10^{(9)}/1$
- 2. platelet count is less  $40-50*10^{(9)}/1$
- 3. platelet count is less  $70*10^{(9)}/1$
- 4. platelet count is less  $100*10^{(9)}/1$

#### 157) Spontaneous bleeding usually occur if the platelet count is:

- 1. less 20\*10^(9)/l
- 2. less 50\*10^(9)/l
- 3. less 70\*10^(9)/l
- 4. less 100\*10^(9)/l

# 158) Bleeding time characterizes:

- 1. the intrinsic pathway of coagulation cascade
- 2. the extrinsic and common pathway of coagulation cascade
- 3. function of platelets and their interaction with the vascular wall
- 159) According to the pathogenesis disorders of hemostasis are classified into:
  - 1. vasopathy
  - 2. platelet disorder
  - 3. erythrocyte disorder
  - 4. coagulopathy
- 160) Disorders of primary hemostasis are divided into:
  - 1. vessel wall disorders
  - 2. thrombocytopathies
  - 3. thrombocytopenias
  - 4. coagulopathy
- 161) Henoch-Schönlein purpura is characterized by:
  - 1. palpable purpura
  - 2. arthralgias
  - 3. abdominal pain
  - 4. hematuria
  - 5. all listed above
- 162) The skin lesions in Henoch-Schönlein purpura are characterized by:
  - 1. asymmetric lesions
  - 2. symmetric lesions
  - 3. occur in gravity-dependent areas or on pressure points
- 163) Gastrointestinal manifestations in Henoch-Schönlein purpura are characterized by:
  - 1. abdominal pain
  - 2. vomiting

- 3. diarrhea
- 4. microscopic hematuria
- 5. arthralgias
- 164) Musculoskeletal manifestations in Henoch-Schönlein purpura are characterized by:
  - 1. painful joints (knees, ankles)
  - 2. vomiting
  - 3. swelling and reduced range of movement in joints
  - 4. microscopic hematuria
  - 5. intracerebral hemorrhage
- 165) Renal manifestations in Henoch-Schönlein purpura are characterized by:
  - 1. frank nephritis, nephrotic syndrome
  - 2. vomiting
  - 3. microscopic hematuria, proteinuria
  - 4. intracerebral hemorrhage
- 166) Neurologic manifestations in Henoch-Schönlein purpura are characterized by:
  - 1. headache
  - 2. seizures
  - 3. behavior changes
  - 4. microscopic hematuria, proteinuria
  - 5. intracerebral hemorrhage
- 167) Thrombocytopenia is a platelet count less than (one answer):
  - 1. 30\*10^(9)/1
  - 2. 50\*10^(9)/1
  - 3. 70\*10^(9)/1
  - 4. 150\*10^(9)/1
- 168) Immune thrombocytopenia (ITP) is classified into:
  - 1. newly diagnosed ITP
  - 2. persistent ITP
  - 3. chronic ITP
  - 4. recurrent ITP
  - 5. all listed above
- 169) Newly diagnosed immune thrombocytopenia:
  - 1. lasting less than 3 months following diagnosis
  - 2. present 12 or more months from diagnosis
  - 3. lasting more than 3 months following diagnosis

- 4. defined as return of thrombocytopenia/symptoms after at least 3 mo of remission, sustained without treatment
- 170) Persistent immune thrombocytopenia is diagnosed if:
  - 1. lasting less than 3 months following diagnosis
  - 2. present 12 or more months from diagnosis
  - 3. lasting more than 3 months following diagnosis
  - 4. defined as return of thrombocytopenia/symptoms after at least 3 mo of remission, sustained without treatment
- 171) Chronic immune thrombocytopenia:
  - 1. lasting less than 3 months following diagnosis
  - 2. present 12 or more months from diagnosis
  - 3. lasting more than 3 months following diagnosis
  - 4. defined as return of thrombocytopenia/symptoms after at least 3 mo of remission, sustained without treatment
- 172) Recurrent immune thrombocytopenia:
  - 1. lasting less than 3 months following diagnosis
  - 2. present 12 or more months from diagnosis
  - 3. lasting more than 3 months following diagnosis
  - 4. defined as return of thrombocytopenia/symptoms after at least 3 mo of remission, sustained without treatment
- 173) Select features of immune thrombocytopenia in children:
  - 1. symmetric rash
  - 2. asymmetric rash
  - 3. flat and not palpable petechiae
  - 4. palpable purpura
  - 5. spontaneous
  - 6. ecchymoses
- 174) Preferable first-line treatment of immune thrombocytopenia:
  - 1. antibiotics
  - 2. intravenous immunoglobulin
  - 3. intravenous anti-D therapy
  - 4. corticosteroids
- 175) Traditional dose of intravenous immunoglobulins:
  - 1. 0,1-0,5 g/kg
  - 2. 0,8-1 g/kg
  - 3. 3-4 g/kg
- 176) Hemophilia A:
  - 1. factor VII deficiency

- 2. factor VIII deficiency
- 3. factor IX deficiency
- 4. factor X deficiency
- 5. factor XI deficiency
- 177) Hemophilia B:
  - 1. factor VII deficiency
  - 2. factor VIII deficiency
  - 3. factor IX deficiency
  - 4. factor X deficiency
  - 5. factor XI deficiency
- 178) Hemophilia C:
  - 1. factor VII deficiency
  - 2. factor VIII deficiency
  - 3. factor IX deficiency
  - 4. factor X deficiency
  - 5. factor XI deficiency
- 179) Which leukemia is most common in childhood (one answer)?
  - 1. acute lymphoblastic leukemia
  - 2. acute myelogenous leukemia
  - 3. chronic myelogenous leukemia
- 180) Select clinical syndromes which are specific for leukemia:
  - 1. hyperplastic
  - 2. hemorrhagic
  - 3. anemic
  - 4. intoxication
  - 5. all listed above
- 181) The number of blasts in peripheral blood in healthy children:
  - 1. up to 5%
  - 2. 5-10%
  - 3. more30%
  - 4. not detected
- 182) Which of the following are correct for acute leukemia:
  - 1. -abscence of immature forms of white blood cells, present blasts and mature cells
  - 2. -amount of blast cells in bone marrow more30%
  - 3. -fast-progressing anemia
  - 4. amount of blast cells in bone marrow less30%
- 183) Which of the following are correct for chronic leukemia:

- 1. presence of immature forms of white blood cells (promyelocytes and myelocytes)
- 2. amount of blast cells in bone marrow less30%
- 3. basophilic-eosinophilic association
- 4. amount of blast cells in bone marrow more30%
- 184) The bone marrow is obtained in newborns by (one answer):
  - 1. tibia epiphysis puncture
  - 2. calcaneus puncture
  - 3. posterior superior ilium crest puncture
  - 4. sternum puncture
- 185) The bone marrow is obtained in children under 1 year of age by (one answer):
  - 1. tibia epiphysis puncture
  - 2. calcaneus puncture
  - 3. posterior superior ilium crest puncture
  - 4. sternum puncture
- 186) The bone marrow is obtained in adolescence children by:
  - 1. tibia epiphysis puncture
  - 2. calcaneus puncture
  - 3. posterior superior ilium crest puncture
  - 4. sternum puncture
- 187) Normal range of blast cells in bone marrow:
  - 1. 0-5% blasts
  - 2. 10-15% blasts
  - 3. 30-40% blasts
- 188) Gestational age is calculated from:
  - 1. the day the mother first feel fetal movements
  - 2. the day the mother first developed symptoms of pregnancy
  - 3. the first day of the last mother's menstrual period
  - 4. the day of conception
- 189) What is the range of normal gestational age:
  - 1. 37 42 weeks
  - 2. 38-40 weeks
  - 3. 39-41 weeks
- 190) Preterm infants are:
  - 1. born before 37 weeks
  - 2. born before 36 weeks

- 3. born before 38 weeks
- 191) Which parameters are included in Apgar score:
  - 1. heart rate
  - 2. muscle tone
  - 3. birth weight
  - 4. temperature
  - 5. skin color
  - 6. reflex irritability
- 192) The Moro reflex is characterized by following:
  - 1. in response to the trigger the baby throws back his or her head, extends out arms and legs, cries, then pulls arms and legs back in
  - 2. persist up 2 months of age
  - 3. in response to firm stroke the bottom of foot from heel up to big toe the foot turns in and toes flare up and fan out
  - 4. disappear after 6 months of age
- 193) The neonatal period lasts from birth until:
  - 1. 1 month of age
  - 2. 2 weeks of age
  - 3. 3 months of age
  - 4. 1 year of age
- 194) Transitory conditions of neonates are:
  - 1. toxic neonatal erythema
  - 2. neonatal anemia
  - 3. neonatal breast hypertrophy
  - 4. weight loss by 15 %
  - 5. uric acid crystals
  - 6. transitory hypothermia
- 195) Normal newborn heart rate:
  - 1. 120-160per minute
  - 2. 180-200 per minute
  - 3. 80-100 per minute
  - 4. 60-90 per minute
- 196) Normal newborn breathing rate:
  - 1. 40-60 per minute
  - 2. 20-30 per minute
  - 3. 16-25 per minute
- 197) Physical criteria for maturity at the new Ballard score:
  - 1. plantar creases

- 2. respiration rate
- 3. skin
- 4. genitals
- 5. heart rate
- 6. length and weight

#### 198) Neuromuscular criteria for maturity at the new Ballard score:

- 1. posture
- 2. arm recoil
- 3. stepping reflex
- 4. tonic neck reflex
- 5. "square window"
- 6. Babinski reflex
- 199) Physiologic jaundice is characterized by following:
  - 1. bilirubin rate of accumulation more5mg/dL/day
  - 2. manifests in the first 24 hours
  - 3. lasts for a month
  - 4. peak bilurubin concentration more10-12 mg/dL
  - 5. light colored stool
  - 6. loss of neonatal reflexes
  - 7. hepatomegaly
  - 8. indirect bilirubin level in umbilical cord serum is 1-3mg/dL
- 200) Causes of physiologic jaundice in neonates are:
  - 1. higher mass of red blood cells with decreased its lifespan
  - 2. deficiency of the uridine diphosphate glucuronosyltransferase (UGT) enzyme
  - 3. increased enterohepatic circulation
  - 4. Rh incompatibility
  - 5. deficiency of the glucose-6-phosphate dehydrogenase
  - 6. alfa1-antitrypsin deficiency

201) The most common cause of conjugated neonatal hyperbilirubinemia is:

- 1. biliary atresia
- 2. hemolytic disease of the newborn
- 3. Gilbert syndrome
- 4. galactosemia
- 202) Conjugated hyperbilirubinemia in neonates is:
  - 1. always pathologic
  - 2. always physiologic
  - 3. may be both pathologic and physiologic

- 203) The most common cause of the newborn hemolytic disease are:
  - 1. Rh incompatibility
  - 2. hereditary spherocytosis
  - 3. cephalhematoma
  - 4. deficiency of vitamin K
- 204) Treatment of the hemolytic disease of the newborn can include:
  - 1. phototherapy
  - 2. intravenous immunoglobulin
  - 3. exchange transfusion
  - 4. ursodeoxycholic acid
  - 5. antibiotics
  - 6. glucocorticoids
- 205) Clinical manifestations of hemolytic disease of the newborn are:
  - 1. pallor
  - 2. jaundice is evident on the  $1^{st}$  day
  - 3. hepatosplenomegaly
  - 4. hydrops fetalis
  - 5. jandice is evident on the  $4^{th}$  day
- 206) Laboratory findings of hemolytic disease of the newborn include:
  - 1. anemia
  - 2. leukocytosis
  - 3. thrombocytosis
  - 4. hyperbilirubinemia (due to unconjugated bilirubin predominantly)
  - 5. hyperbilirubinemia (due to conjugated bilirubin predominantly)
- 207) Select the clinical manifestations of kernicterus:
  - 1. poor feeding
  - 2. loss of neonatal reflexes
  - 3. convulsions
  - 4. opisthotonos

#### 208) The most common cause of neonatal mastitis is:

- 1. Staphylococcus aureus
- 2. Escherichia coli
- 3. Clostridium perfringens
- 4. Bacteroides fragilis

#### 209) Breastfeeding should be initiated:

- 1. within 2 hours after normal delivery
- 2. within half an hour after normal delivery
- 3. more than 6 hours after normal delivery
- 4. the next day after normal delivery

- 210) The acronym TORCH refers to:
  - 1. Toxoplasma gondii, Rubella Virus, Cytomegalovirus, Herpes Simlex Virus
  - 2. Treponema pallidum, Rubella virus, Clostridia, HIV
  - 3. Tuberculosis, Respiratory Syncytial Virus, Chlamidia, Hepatitis B virus
- 211) The following skin conditions are common in the newborn period:
  - 1. molluscum contagiosum
  - 2. erysipelas
  - 3. erythema toxicum
  - 4. milia
  - 5. psoriasis
- 212) Initial empirical treatment of early-onset neonatal sepsis should consist of:
  - 1. aminoglycoside and expanded-spectrum penicillin
  - 2. third generation of cephalosporins and expanded-spectrum penicillin
  - 3. monobactam and vancomycin
  - 4. fluconazole and expanded-spectrum penicillin
- 213) Early-onset sepsis in neonates is most commonly associated with:
  - 1. Group B Streptococcus (GBS)
  - 2. Staphylococcus aureus
  - 3. Candida
  - 4. Enterobacter
- 214) Factors that are associated with or predispose to early-onset sepsis:
  - 1. complicated delivery
  - 2. meconium staining
  - 3. maternal urinary tract infection
  - 4. premature rupture of membranes
- 215) Which from following lab tests is more specific to confirm bacterial infection:
  - 1. procalcitonin
  - 2. erythrocyte sedimentation rate (ESR)
  - 3. fibrinogen
- 216) Methicillin-resistant *S.* aureus (MRSA) infection usually requires treatment with:
  - 1. fluconazole
  - 2. vancomycin
  - 3. oxacillin

- 4. gentamicin
- 5. metronidazole
- 217) Select clinical signs of neonatal mastitis:
  - 1. more often bilateral involvement of mammary glands
  - 2. more often unilateral involvement of mammary glands
  - 3. normal body temperature
  - 4. fever
  - 5. painless breast hypertrophy
  - 6. breast is edematous with local tenderness, erythema, heat

# 218) Most causes of proteinuria can be categorized into 3 groups:

- 1. tubular
- 2. overflow (due to multiple myeloma, myoglobinuria etc.)
- 3. glomerular
- 4. interstitial
- 219) What is a mechanism of overflow proteinuria?
  - 1. large amounts of filtered proteins overwhelm the tubular reabsorptive capacity
  - 2. tubular reabsorptive capacity is impaired
  - 3. increased permeability of the glomerular capillary wall
  - 4. 1 + 3
- 220) What is a mechanism of glomerular proteinuria?
  - 1. large amounts of filtered proteins overwhelm the tubular reabsorptive capacity
  - 2. tubular reabsorptive capacity is impaired
  - 3. increased permeability of the glomerular capillary wall
  - 4. 1 + 3
- 221) What is a mechanism of tubular proteinuria?
  - 1. large amounts of filtered proteins overwhelm the tubular reabsorptive capacity
  - 2. tubular reabsorptive capacity is impaired
  - 3. increased permeability of the glomerular capillary wall
  - 4. 1 + 3

# 222) Select causes of overflow proteinuria?

- 1. multiple myeloma
- 2. Fanconi syndrome
- 3. focal segmental glomerulosclerosis
- 4. interstitial nephritis
- 5. myoglobinuria (rhabdomyolysis, or hemolysis)

- 223) Select causes of tubular proteinuria?
  - 1. multiple myeloma
  - 2. Fanconi syndrome
  - 3. focal segmental glomerulosclerosis
  - 4. minimal change disease
  - 5. interstitial nephritis
- 224) Select causes of glomerular proteinuria?
  - 1. membranous nephropathy
  - 2. Fanconi syndrome
  - 3. focal segmental glomerulosclerosis
  - 4. minimal change disease
  - 5. interstitial nephritis
- 225) Urinary protein excretion in the normal child is...:
  - 1. less than 100 mg/m<sup>2</sup>/day or a total of 150 mg/day
  - 2. less than  $1 \text{ g/m}^2/\text{day}$
  - 3. less than  $10 \text{ mg/m}^2/\text{day}$
- 226) Normal protein excretion in children is defined as...:
  - 1. less and egually  $4 \text{ mg/m}^2/\text{hour}$
  - 2.  $4-40 \text{ mg/m}^2/\text{ hour}$
  - 3. more  $40 \text{ mg/m}^2/\text{ hour}$
- 227) Abnormal protein excretion in children is defined as...:
  - 1. less and egually  $4 \text{ mg/m}^2/\text{hr}$
  - 2.  $4-40 \text{ mg/m}^2/\text{hr}$
  - 3. -more  $40 \text{ mg/m}^2/\text{hr}$
- 228) Normal urine protein-to-creatinine ratio (UPCR) in children is:
  - 1. less than 2
  - 2. greater than 1
  - 3. less than 0.5

# 229) Transient proteinuria is associated with:

- 1. fever
- 2. seizure activity
- 3. exercise
- 4. congestive heart failure
- 230) Nephrotic-range proteinuria is defined as proteinuria:
  - 1. more 2.5-3.0g /24hr or more50 mg/kg/day
  - 2. urine protein : creatinine ratio more2
  - 3.  $40 \text{ mg/m}^2$ /hour (in a 24 hours urine collection)
  - 4. all listed above

- 231) Select obligatory findings of the nephrotic syndrome:
  - 1. hypoalbuminemia (less and egually2.5 g/dL), edema
  - 2. hypertension
  - 3. hyperlipidemia
  - 4. nephrotic-range proteinuria
  - 5. all listed above
- 232) Which is the commonest cause of the nephrotic syndrome in preschool age children:
  - 1. minimal change nephrotic syndrome
  - 2. focal segmental glomerulosclerosis
  - 3. membranous nephropathy
  - 4. membranoproliferative glomerulonephritis
- 233) Which is the commonest cause of the nephrotic syndrome in school age children:
  - 1. minimal change nephrotic syndrome
  - 2. focal segmental glomerulosclerosis
  - 3. membranous nephropathy
  - 4. membranoproliferative glomerulonephritis
- 234) A renal biopsy is not routinely performed if the patient fits the standard clinical picture of minimal change nephrotic syndrome:
  - 1. false
  - 2. true
- 235) Which features make minimal change nephrotic syndrome less likely:
  - 1. gross hematuria
  - 2. hypertension
  - 3. hypocomplementemia
  - 4. age less1 yr or more12 yr
- 236) What is correct for preschool age children with presumed minimal change nephrotic syndrome:
  - 1. should be considered for renal biopsy before treatment
  - 2. should be started treatment with steroids at once
  - 3. should be started supportive, symptomatic treatment
- 237) What a daily dose of prednisone or prednisolone should be administered for patients diagnosed with minimal change nephrotic syndrome:
  - 1.  $20-40 \text{ mg/m}^2/\text{day or } 0.5-1.0 \text{ mg/kg/day}$
  - 2.  $60 \text{ mg/m}^2/\text{day or } 2 \text{ mg/kg/day}$
  - 3.  $80 \text{ mg/m}^2/\text{day} \text{ or } 2,5 \text{ mg/kg/day}$

- 238) Alternative therapies to corticosteroids in the treatment of nephrotic syndrome are following:
  - 1. calcineurin inhibitors (cyclosporine or tacrolimus)
  - 2. cyclophosphamide
  - 3. mycophenolate
  - 4. rituximab
  - 5. all listed above

#### 239) Upper respiratory tract includes:

- 1. paranasal sinuses
- 2. nasal cavity
- 3. pharynx
- 4. larynx
- 5 .lungs

#### 240) Lower respiratory tract includes:

- 1. lungs
- 2. bronchi, bronchioles
- 3. larynx
- 4. alveolar sacs

# 241) The right lung consists of:

- 1. 5 lobes
- 2. 3 lobes
- 3. 2 lobes

# 242) The left lung consists of:

- 1. 5 lobes
- 2. 4 lobes
- 3. 2 lobes
- 243) The role of alveolar cells type II is:
  - 1. -transformation into alveolar cells type I upon damage
  - 2. -biosynthesis of pulmonary surfactant

# 244) Normal respiratory rate in newborns:

- 1. 40-60
- 2. 30-35
- 3. 25
- 4. 16-20

# 245) Normal respiratory rate in 1-year-old child:

- 1. 40-60
- 2. 30-35

- 3. 20-25
- 4. 16-20

246) Normal respiratory rate at 5 years of age:

- 1. 40-60
- 2. 40-45
- 3. 30-35
- 4. 20-25
- 5. 16-20

# 247) Normal respiratory rate in children older than 12 years old...:

- 1. 40-45
- 2. 30-35
- 3. 20-25
- 4. 16-20

# 248) Inflammation of the mucous membrane of the bronchi is...:

- 1. Tracheitis
- 2. Bronchitis
- 3. Laryngitis
- 4. Pneumonia

249) Inflammation of the parenchyma of the lungs is...:

- 1. Tracheitis
- 2. Bronchitis
- 3. Laryngitis
- 4. Pneumonia

250) Inflammation involving the vocal cords and structures inferior to the cords is...:

- 1. Tracheitis
- 2. Bronchitis
- 3. Laryngitis
- 4. Pneumonia

# 251) List the types of bronchitis:

- 1. Acute (simple) bronchitis
- 2. Acute obstructive bronchitis or acute bronchitis with wheezing
- 3. Chronic bronchitis
- 4. All listed above
- 252) The leading etiological factor of acute bronchitis in children:
  - 1. parainfluenza
  - 2. adenovirus
  - 3. herpes simplex

- 4. gram-negative bacteria
- 253) List the symptoms of acute bronchitis:
  - 1. cough
  - 2. dyspnea
  - 3. fever
  - 4. infiltrates on the chest X-ray

#### 254) List the symptoms of pneumonia:

- 1. cough
- 2. fever
- 3. dyspnea
- 4. pulmonary infiltrates on the chest X-ray
- 5. all listed above
- 255) Mechanisms of bronchial obstructions are:
  - 1. mucous hypersecretion
  - 2. edema of bronchial mucous membranes
  - 3. bronchospasm
  - 4. retraction of bronchial muscles
- 256) Select main etiological agents of pneumonia in children in the first 2 weeks of life:
  - 1. Escherichia coli
  - 2. Listeria monocytogenes
  - 3. Mycoplasma pneumoniae
  - 4. Streptococcus agalactia
  - 5. Streptococcus pneumonia
- 257) Select more frequent etiological agents of pneumonia in children from 2 weeks up to 6 month of life:
  - 1. Escherichia coli
  - 2. Klebsiella pneumonia
  - 3. Listeria monocytogenes
  - 4. Streptococci spp
  - 5. Chlamydia trachomatis
- 258) Select main etiological agents of pneumonia in children from 6 months of age up to 6 years old:
  - 1. Streptococcus pneumonia
  - 2. Hemophilus influenza
  - 3. Mycoplasma pneumonia
  - 4. Listeria monocytogenes

- 259) Select etiological agents of pneumonia in children above 6 years of age:
  - 1. Streptococcus pneumoniae
  - 2. Mycoplasma pneumoniae
  - 3. Chlamydia pneumonia
  - 4. Streptococcus pyogenes
  - 5. All listed above
- 260) Community-acquired pneumonia refers to pneumonia...:
  - 1. developed in a child outside of the healthcare facility
  - 2. developed in a child in the first 48 hours after hospital admission
  - 3. developed at least 48 hours after hospital admission
- 261) Hospital-acquired pneumonia:
  - 1. develops at the first 48 hours of hospital admission
  - 2. develops at least 48 hours after hospital admission
- 262) Slowly resolving pneumonia is:
  - 1. -more than 6 weeks duration
  - 2. less than 6 weeks duration
  - 3. less than 3 month duration
  - 4. more than 6 month duration
- 263) List pulmonary complications of pneumonia:
  - 1. -Lung abscess
  - 2. -Atelectasis
  - 3. -Empyema
  - 4. -Pneumothrax
  - 5. Septic shock
  - 6. Acute respiratory distress syndrome
- 264) List extrapulmonary/systemic complications of pneumonia:
  - 1. -Acute respiratory distress syndrome
  - 2. -Septic shock
  - 3. Lung abscess
  - 4. -Disseminated intravascular coagulation
  - 5. -Heart failure
  - 6. Otitis media
- 265) Indications for hospitalization patients with pneumonia:
  - 1. Age less6 month
  - 2. Moderate to severe respiratory distress
  - 3. No response to antibiotic therapy
  - 4. Complicated pneumonia
  - 5. -All listed above

- 266) List the main symptoms of laryngitis:
  - 1. «barking» cough
  - 2. hoarseness
  - 3. inspiratory stridor
  - 4. normal temperature

#### 267) List the main symptoms of croup:

- 1. «barking» cough
- 2. hoarseness
- 3. inspiratory stridor
- 4. normal temperature
- 268) Emergency help for patients with croup includes using:
  - 1. Ibuprofen
  - 2. Dexamethasone
  - 3. Amoxicillin
  - 4. Nibulized epinephrine
  - 5. Acyclovir

#### 269) Epiglottitis (supraglottitis) is caused by...:

- 1. Haemophilus Influenzae type B
- 2. Parainfluenzae type 1
- 3. Respiratory syncytial virus
- 4. Mycoplasma pneumonia
- 5. Streptococci spp

# 270) What etiological agent causes acute rheumatic fever?

- 1. beta-hemolytic Streptococcus Group A
- 2. Escherichia coli
- 3. Staphylococcus aureus
- 4. Herpes simplex
- 5. Hemophyllus influenze
- 271) Acute rheumatic fever typically develops...:
  - 1. two to four days after a streptococcal throat infection
  - 2. two to four weeks after a streptococcal throat infection
  - 3. two to four months after a streptococcal throat infection
- 272) The major criteria for diagnosis with acute rheumatic fever:
  - 1. carditis
  - 2. polyarthritis
  - 3. arthralgia
  - 4. subcutaneous nodules
  - 5. chorea

- 273) The major criteria for diagnosis with acute rheumatic fever:
  - 1. fever
  - 2. elevated C-reactive protein
  - 3. erythema marginatum
  - 4. carditis
  - 5. chorea
- 274) The minor criteria for diagnosis with acute rheumatic fever:
  - 1. fever
  - 2. elevated C-reactive protein
  - 3. carditis
  - 4. arthralgia
  - 5. prolonged PR interval on ECG
- 275) The minor criteria for diagnosis with acute rheumatic fever:
  - 1. fever
  - 2. elevated C-reactive protein
  - 3. erythema marginatum
  - 4. elevated erythrocyte sedimentation rate
  - 5. prolonged PQ interval on ECG
- 276) The minor criteria for diagnosis with acute rheumatic fever:
  - 1. fever
  - 2. elevated C-reactive protein
  - 3. arthralgia
  - 4. elevated erythrocyte sedimentation rate
  - 5. prolonged QT interval on ECG
- 277) Evidences of previous Group A Streptococcus infection is:
  - 1. positive throat culture
  - 2. elevated or increasing streptococcal antibody titer
  - 3. positive rapid streptococcal antigen test
  - 4. elevated C-reactive protein
- 278) Evidences of previous Group A Streptococcus infection is:
  - 1. positive throat culture
  - 2. elevated erythrocyte sedimentation rate
  - 3. positive rapid streptococcal antigen test
  - 4. elevated C-reactive protein
- 279) Diagnostic criteria for rheumatic fever:
  - 1. 2 major or 1 major and 2 minor criteria
  - 2. 1 major and 1 minor criteria
  - 3. evidence of recent GAS infection

- 280) Polyarthritis in acute rheumatic fever is characterized by following:
  - 1. typically affects large joints
  - 2. typically affects small joints
  - 3. joints are hot, edematous, painful
  - 4. joint involvement is not persistent, migratory in nature
- 281) Rheumatic myocarditis is characterized by...:
  - 1. tachycardia
  - 2. cardiac murmurs
  - 3. mitral regurgitation
  - 4. normal ECG
- 282) Sydenham chorea (rheumatic) is characterized by:
  - 1. emotional and behavioural disturbances
  - 2. incoordination of movements
  - 3. jerky, uncontrollable, purposeless movements of the arms, face (grimacing), legs
  - 4. controllable movements of the arms, face (grimacing), legs
  - 5. diminished muscle tone (hypotonia)
- 283) Which antibiotics is indicated in the initial period of acute rheumatic fever:
  - 1. amoxicillin
  - 2. levofloxacin
  - 3. bicillin-5
  - 4. metronidazole
- 284) Antibiotic therapy for acute rheumatic fever is:
  - 1. penicillins
  - 2. macrolides
  - *3.* fluoroquinolones
  - 4. carbopenems
- 285) Indications for treatment acute rheumatic fever in children with glucocorticosteroids:
  - 1. low laboratory activity (CRP, ESR etc.)
  - 2. progressive or severe heart rhythm disorders
  - 3. ARF is accompanied by heart failure: NYHA Class I or II, by Ross I or II
  - 4. ARF is accompanied by heart failure: NYHA Class III or IV, by Ross Class III or IV
  - 5. pancarditis
- 286) Primary prevention of acute rheumatic fever is:

- 1. prevention of the initial attack of acute rheumatic fever
- 2. eradication of the Group A  $\beta$ -hemolytic Streptococcus
- 3. prevention and treatment of recurrent streptococcal tonsillitis in patients with acute rheumatic fever
- 287) Secondary prevention of acute rheumatic fever is:
  - 1. prevention the initial attack of acute rheumatic fever
  - 2. eradication of the Group A beta-hemolytic Streptococcus
  - 3. prevention and treatment of recurrent streptococcal tonsillitis in patients with acute rheumatic fever
- 288) Duration of secondary prophylaxis for people who was diagnosed with rheumatic fever without carditis:
  - 1. 5 years or until age 21 years (whichever is longer)
  - 2. 10 years or until age 40 and often longer (whichever is longer)
- 289) Duration of secondary prophylaxis for people who was diagnosed with rheumatic fever with carditis and residual heart disease (persistent valvular disease):
  - 1. 5 years or until age 21 years (whichever is longer)
  - 2. 10 years or until age 40 and often longer (whichever is longer)
- 290) For secondary prophylaxis of rheumatic fever is used Penicillin G benzathine in single dose:
  - 1. 1 million IU every 4 wk, IM
  - 2. 1.2 million IU every 4 wk, IM
  - 3. 1.5 million IU every 2 wk, IM
  - 4. 1.5 million IU every 4 mo, IM
- 291) Select risk factors of congenital heart disease formation in utero:
  - 1. gene mutations
  - 2. infections
  - 3. mothers age is less than 35
  - 4. X-ray irradiation
- 292) Septation of the heart begins at about...:
  - 1. 7 days of embryogenesis
  - 2. 14 days of embryogenesis
  - 3. 4-7 weeks of embryogenesis
  - 4. 4-7 months of embryogenesis
- 293) Cardiovascular fetal communications:
  - 1. Ductus venosus
  - 2. Foramen ovale
  - 3. Ductus arteriosus

- 4. Ventricular septal defect
- 5. Foramen rotundum
- 294) During the transition from fetal to neonatal circulation the following changes occur:
  - 1. closing foramen ovale
  - 2. ventricular septal defect closure
  - 3. ductus venous closure
  - 4. opening foramen ovale
  - 5. ductus arteriosus closure
- 295) The foramen ovale is usually functionally closed by...:
  - 1. the 1st mo of life
  - 2. the 2nd mo of life
  - 3. the 3rd mo of life
  - 4. with the first breath
- 296) Functional closure of the ductus arteriosus is usually complete by:
  - 1. 1 hr
  - 2. 10-15 hr
  - 3. the 6th mo of life
  - 4. the 1st year of life
- 297) Which acyanotic congenital heart disease is the most common in childhood?
  - 1. Coarctation of the aorta
  - 2. Patent ductus arteriosus
  - 3. Tetralogy of Fallot
  - 4. Ventricular septal defect
- 298) Congenital heart diseases can be classified into 4 groups:
  - 1. acyanotic CHD with normal pulmonary blood flow
  - 2. acyanotic CHD with increased pulmonary blood flow
  - 3. acyanotic CHD with increased aortic blood flow
  - 4. cyanotic CHD with normal or decreased pulmonary flow
  - 5. cyanotic CHD with increased pulmonary blood flow
- 299) CHD with the left-to-right shunt lesions:
  - 1. Atrial septal defect
  - 2. Transposition of the great vessels
  - 3. Patent ductus arteriosus
  - 4. Tetralogy of Fallot
  - 5. Ventricular septal defect
- 300) CHD with the right-to-left shunt lesions:

- 1. Transposition of the great vessels
- 2. Coarctation of the aorta
- 3. Patent ductus arteriosus
- 4. Tetralogy of Fallot
- 5. Ventricular septal defect
- 301) CHD with the obstructive lesions:
  - 1. Transposition of the great vessels
  - 2. Coarctation of the aorta
  - 3. Pulmonary stenosis
  - 4. Tetralogy of Fallot
  - 5. Aortic stenosis
- 302) Atrial septal defect is characterized by following:
  - 1. often asymptomatic (if a small defect)
  - 2. failure to thrive
  - 3. fixed wide split S2
  - 4. deviation of the electrical axis to the left
  - 5. hypertrophy of the right ventricle
- 303) Atrial septal defect is characterized by following:
  - 1. often asymptomatic (if a small defect)
  - 2. hypertrophy of the left ventricle
  - 3. acyanotic
- 304) Ventricular septal defect is characterized by following:
  - 1. often asymptomatic (if a small defect)
  - 2. cyanotic
  - 3. ECG: biventricular enlargement
  - 4. recurrent pulmonary infections
  - 5. acyanotic
- 305) Patent ductus arteriosus is characterized by following:
  - 1. often asymptomatic
  - 2. retardation of physical growth (with large shunts)
  - 3. continuous systolodiastolic murmur in the II-III intercostal space at the left sternal border (left subclavicular region)
  - 4. cyanotic
  - 5. acyanotic
- 306) Coarctation of aorta is characterized by following:
  - 1. weakness or pain in their legs with exercise
  - 2. blood pressure in the legs is lower than that in the arms
  - 3. blood pressure in the legs is higher than that in the arms
  - 4. disparity in pulsation and blood pressure in the arms and legs

- 5. cyanotic
- 307) Systolic blood pressure on the legs is:
  - 1. higher than that on the arms
  - 2. lower than that on the arms
  - 3. equal as on arms
- 308) Coarctation of aorta is characterized by following:
  - 1. cold legs and feet
  - 2. blood pressure on the legs is higher than that on the arms
  - 3. blood pressure on the legs is lower than that on the arms
  - 4. acyanotic
- 309) Find defects which can be included at Tetralogy of Fallot:
  - 1. Pulmonary stenosis
  - 2. Patent ductus arteriosus
  - 3. Dextroposition of the aorta
  - 4. Right ventricular hypertrophy
  - 5. Left ventricular hypertrophy
- 310) Tetralogy of Fallot is a combination of next congenital anomalies:
  - 1. pulmonary stenosis
  - 2. atrial septal defect
  - 3. ventricular septal defect
  - 4. dextroposition of the aorta
  - 5. right ventricular hypertrophy
- 311) Tetralogy of Fallot is characterized by following:
  - 1. acyanotic
  - 2. cyanotic
  - 3. anoxic blue spell
  - 4. ventricular septal defect
  - 5. right ventricular hypertrophy
- 312) Emergency treatment of anoxic blue spell includes:
  - 1. Adrenaline
  - 2. Oxygen
  - 3. Cardiac glycosides
  - 4. Promedol
  - 5. beta-adrenoreceptor blocking agents
- 313) Systolic blood pressure measured on the legs by cuff method is higher than that in the arms for:
  - 1. 5 mm Hg
  - 2. 10-20 mm Hg

- 3. 40 mm Hg
- 314) Which of the congenital heart diseases are not accompanied by cyanosis?
  - 1. Transposition of the great vessels
  - 2. Coarctation of the aorta
  - 3. Patent ductus arteriosus
  - 4. Tetralogy of Fallot
  - 5. Ventricular septal defect
- 315) Which of the congenital heart diseases are accompanied by cyanosis?
  - 1. Transposition of the great vessels
  - 2. Atrial septal defect
  - 3. Patent ductus arteriosus
  - 4. Tetralogy of Fallot
  - 5. Tricuspid atresia
- 316) Which of the congenital heart diseases is accompanied by anoxic blue spells?
  - 1. Transposition of the great vessels
  - 2. Atrial septal defect
  - 3. Patent ductus arteriosus
  - 4. Tetralogy of Fallot
  - 5. Ventricular septal defect
- 317) Which of the CHD are NOT accompanied by cyanosis?
  - 1. Ventricular septal defect
  - 2. Transposition of the great vessels
  - 3. Patent ductus arteriosus
  - 4. Tetralogy of Fallot
  - 5. Atrial septal defect
- 318) Which of the CHD are accompanied by cyanosis?
  - 1. Transposition of the great vessels
  - 2. Ventricular septal defect
  - 3. Coarctation of the aorta
  - 4. Tetralogy of Fallot
  - 5. Atrial septal defect
- 319) What normal heart rate in a newborn is:
  - 1. 140-180 per minute
  - 2. 90-110 per minute
  - 3. 200-220 per minute
  - 4. 80-100 per minute
  - 5. less than 80 per minute

- 320) What the normal heart rate in children 6-8 years old is:
  - 1. more than 140 per minute
  - 2. 120-140 per minute
  - 3. 100-120 per minute
  - 4. 80-100 per minute
  - 5. 60-80 per minute

321) Normal total urine output for newborns (the 24-hour urine collection test):

- 1. 300 ml
- 2. 600 ml
- 3. 1000 ml
- 4. 1500 ml
- 322) Normal total urine output for 5-6 years old children (the 24-hour urine collection test):
  - 1. 300 ml
  - 2. 600 ml
  - 3. 1000 ml
  - 4. 1500 ml
- 323) Anuria:
  - 1. less 0,15 ml/kg/h
  - 2. less 0,5 ml/kg/h
  - 3. less 1,0 ml/kg/h
  - 4. more 1,0 ml/kg/h
  - 5. no urine output
- 324) Oliguria:
  - 1. less 0,15 ml/kg/h
  - 2. less 0,5 ml/kg/h
  - 3. less 1,0 ml/kg/h
  - 4. more 1,0 ml/kg/h
- 325) Normal leukocyte counts (spontaneously voided urine):
  - 1. less 10 WBCs/mcL or 2-5 WBCs/hpf in boys
  - 2. less 5 WBCs/mcL or 1-2 WBCs/hpf in boys
  - 3. less 20 WBCs/mcL or 4-8 WBCs/hpf in girls
  - 4. less 50 WBCs/mcL or 10-12 WBCs/hpf in girls
- 326) Select causes of urinary tract infections:
  - 1. Escherichia coli
  - 2. Klebsiella pneumoniae
  - 3. Proteus mirabilis

- 4. Staphylococcus saprophyticus
- 5. All listed above
- 327) Escherichia coli is a:
  - 1. Gram-negative bacterium
  - 2. Gram-positive bacterium
- 328) Select predisposing factors for UTIs:
  - 1. Kidney malformations
  - 2. Female gender
  - 3. Vesicoureteral reflux
  - 4. Constipation
  - 5. Anemia
- 329) Urinary tract infections include following:
  - 1. Pyelonephritis
  - 2. Glomerulonephritis
  - 3. Cystitis
  - 4. Asymptomatic bacteriuria
  - 5. Neurogenic bladder dysfunction
- 330) Normal total urine output for 1-year-old child (the 24-hour urine collection test):
  - 1. 300 ml
  - 2. 600 ml
  - 3. 1000 ml
  - 4. 1500 ml
- 331) Urinary tract infections are classified according to episode:
  - 1. UTI, first episode
  - 2. UTI, second episode
  - 3. recurrent UTI
- 332) Normal urine output in newborn and infant up to 1 year:
  - 1. 2 ml/kg/hour
  - 2. 1 ml/kg/hour
  - 3. 0.5 ml/kg/hour
- 333) Asymptomatic bacteriuria refers to a condition in which there is a positive urine culture without any manifestations of infection:
  - 1. true
  - 2. false
- 334) Normal urine output in toddlers:
  - 1. 3 ml/kg/hour

- 2. 1-1.5 ml/kg/hour
- 3. 0.5 ml/kg/hour
- 335) Cystitis is an inflammation in the:
  - 1. lower urinary tract
  - 2. upper urinary tract
- 336) Pyelonephritis is an inflammation in the:
  - 1. lower urinary tract
  - 2. upper urinary tract
- 337) Select clinical manifestations of cystitis:
  - 1. suprapubic pain
  - 2. dysuria, stranguria, malodorous urine, incontinence, haematuria
  - 3. poor appetite, failure to thrive, irritability, vomiting, diarrhoea
  - 4. fever (more 38C)
- 338) Pyelonephritis is diffuse pyogenic infection of the:
  - 1. renal pelvis
  - 2. renal parenchyma
  - 3. urinary bladder mucosa
  - 4. glomeruli
- 339) Clinical signs of pyelonephritis in infants:
  - 1. suprapubic pain
  - 2. irritability, vomiting, diarrhea
  - 3. fever (more 38C)
  - 4. poor appetite, failure to thrive, lethargy
- 340) Criteria for urinary tract infections if urine specimen obtained by suprapubic bladder aspiration (CFU colony-forming units):
  - 1. any number of CFU
  - 2. more or egual 1000–50 000 CFU/ml
  - 3. more or egual 10<sup>(4)</sup> CFU/ml
  - 4. more or egual 10<sup>(5)</sup> CFU/ml
- 341) Criteria for urinary tract infections if urine specimen obtained by bladder catheterization (CFU colony-forming units):
  - 1. any number of CFU
  - 2. more or egual 1000-50 000 CFU/ml
  - 3. more or egual 10<sup>(4)</sup> CFU/ml
  - 4. more or egual 10<sup>(5)</sup> CFU/ml
- 342) Criteria for urinary tract infections if urine specimen from midstream void (CFU colony-forming units):

- 1. any number of CFU
- 2. more or egual 1000–50 000 CFU/ml
- 3. more or egual 10<sup>(4)</sup> CFU/ml with symptoms
- 4. more or egual 10<sup>(5)</sup> CFU/ml without symptoms
- 343) Select findings of glomerular hematuria:
  - 1. dysmorphic RBCs
  - 2. urine color is dark brown, "like Coca-Cola"
  - 3. urine color is bright red
  - 4. normal morphology of erythrocyte
  - 5. RBC casts
- 344) Select findings of non-glomerular hematuria:
  - 1. dysmorphic RBCs
  - 2. urine color is dark brown, "like Coca-Cola"
  - 3. urine color is bright red
  - 4. normal morphology of erythrocyte
  - 5. RBC casts
- 345) Leukocyturia and bacteriuria are confirmed by following positive dipstick tests:
  - 1. leukocyte esterase test and nitrite test
  - 2. leukocyte esterase test
  - 3. nitrite test and test for ketones
  - 4. leukocyte esterase test and test for ketones
- 346) Normal urine output in school-age children and adolescence:
  - 1. 2 ml/kg/hour
  - 2. 1 ml/kg/hour
  - 3. 0.15 ml/kg/hour
  - 4. 2.5 ml/kg/hour
- 347) Clinical signs of pyelonephritis in children:
  - 1. abdominal pain
  - 2. flank and back pain
  - 3. high fever and chills
  - 4. subfebrile fever
  - 5. all listed above
- 348) Microscopic hematuria is defined as:
  - 1. 3 RBCs/hpf or more in 2 of 3 urine samples
  - 2. more 15 RBCs/hpf in urine samples
  - 3. 1-2 RBCs/hpf in a urine sample
- 349) Infant is:

- 1. A child of 1 month of life
- 2. A child of 4 weeks -1 year of age
- 3. A child of 1–2 years of age
- 4. A child of 3–5 years of age
- 350) Toddler is:
  - 1. A child of 1<sup>st</sup> month of life
  - 2. A child of 4 weeks -1 year of age
  - 3. A child of 1–3 years of age
  - 4. A child of 3–5 years of age
- 351) Marasmus is a:
  - 1. type of severe undernutrition with generalized edema
  - 2. type of severe undernutrition, with no generalized edema
- 352) Choose a synonym of Kwashiorkor:
  - 1. oedematous malnutrition
  - 2. non-celiac gluten sensitivity
  - 3. non-oedematous malnutrition
- 353) A body length is a parameter which measured in a child who is: 1. placed supine
  - 2. standing up
- 354) Height is a parameter which measured in a child who is:
  - 1. placed supine
  - 2. standing up
- 355) Length is measured by:
  - 1. infantometer
  - 2. stadiometer
  - 3. tape
- 356) Height is measured by:
  - 1. infantometer
  - 2. stadiometer
  - 3. tape
- 357) Fat requirement for 0-3 months-old infants is:
  - 1. 5,5 g/kg/24hr
  - 2. 6,5 g/kg/24hr
  - 3. 5,0 g/kg/24hr
  - 4. 6,0 g/kg/24hr
- 358) Protein requirement for 7-12 months-old infants is:

- 1. 1,2 g/kg/24hr
- 2. 1,7 g/kg/24hr
- 3. 2,2 g/kg/24hr
- 4. 0,5 g/kg/24hr
- 359) Energy requirement for 0-6 month-old infants is:
  - 1. 115 kcal/kg/24hr
  - 2. 100 kcal/kg/24hr
  - 3. 130 kcal/kg/24hr

# 360) What is the most common cause of food allergy in infants?

- 1. cow's milk
- 2. peanuts
- 3. fish
- 4. eggs
- 5. citrus fruit
- 361) Celiac disease is:
  - 1. a small-bowel gluten-sensitive enteropathy
  - 2. genetic disorder that affects lungs, digestive system (pancreas, liver), sweat glands
  - 3. chronic inflammatory bowel disease
- 362) Serology testing for diagnosis of Celiac disease include assessment of:
  - 1. total IgE level
  - 2. anti-tissue transglutaminase IgA, IgG
  - 3. anti-endomysial IgA, IgG
  - 4. immunoreactive trypsin level
  - 5. fecal elastase-1
- 363) Body mass index (BMI) is calculated by:
  - 1. dividing weight in kilograms by the square of height in meters
  - 2. dividing height in meters by the weight in kilograms
  - 3. dividing weight in kilograms by the height in meters
- 364) BMI over the  $95^{\text{th}}(97^{\text{th}})$  percentile in children indicates:
  - 1. overweight
  - 2. risk of overweight
  - 3. obesity
- 365) According to the WHO classification acute moderate undernutrition is:
  - 1. Z score weight for height -1,1 to -2
  - 2. Z score weight for height -2 to -3
  - 3. Z score height for age -2 to -3

- 366) According to the WHO classification chronic severe undernutrition (stunting) is:
  - 1. Z score weight for age less -2
  - 2. Z score height for age less -3
  - 3. Z score height for age less -2
  - 4. Z score weight for height less -2
- 367) Colostrum is:
  - 1. the milk secreted during the first two weeks of lactation
  - 2. the milk secreted during the first three days after delivery
  - 3. the milk of a mother who delivers prematurely
  - 4. the milk secreted at the start of a feed
- 368) Criteria for successful breastfeeding are:
  - 1. initiate breastfeeding within a half-hour of birth
  - 2. give neonate/infant water after breastmilk
  - 3. initiate breastfeeding 24 hours after uncomplicated delivery
  - 4. during the first six months of life give infants no other food or drink except breastmilk
  - 5. practice rooming-in
  - 6. encourage breastfeeding on demand
  - 7. feed the infant strictly by the hour
- 369) Breastfeeding is contraindicated in children with:
  - 1. galactosemia
  - 2. celiac disease
  - 3. phenylketonuria
  - 4. cystic fibrosis
  - 5. maple syrup urine disease
  - 6. congenital hypothyroidism
- 370) Which parameters are used for physical growth evaluating?
  - 1. body weight
  - 2. muscle tone
  - 3. length
  - 4. head circumferences
  - 5. respiration rate
  - 6. chest circumferences
- 371) Expected body weight for 0-6 months-old babies is calculated by the formula (n = age of the baby in month):
  - 1. Expected weight = birth weight+800n
  - 2. Expected weight = birth weight+600n
  - 3. Expected weight = birth weight+400n

- 4. Expected weight = birth weight+1000n
- 372) Expected body weight for 6-12 months-old babies is calculated by the formula (n = age of the baby in month):
  - 1. Expected weight = birth weight+ $800^{\circ}6+400(n-6)$
  - 2. Expected weight = birth weight+ $600^{\circ}6+400(n-6)$
  - 3. Expected weight = birth weight+ $800^{\circ}6+600(n-6)$

373) Expected length of a 6 months old baby (length at birth was 50 cm) is about:

- 1. 66 cm
- 2. 60 cm
- 3. 75 cm
- 4. 70 cm
- 374) Developmental milestones of a 3-months-old infant:
  - 1. holds his head in vertical position
  - 2. produces cooing
  - 3. produces monosyllables (da, ma)
  - 4. holds object with crude grasp by palm
  - 5. follows the object with steady movement of eyes
- 375) Developmental milestones of a 5 months old infant:
  - 1. rolls from back to side and from back to abdomen
  - 2. produces monosyllables (da, ma)
  - 3. crawls, keeping his abdomen off the ground
  - 4. sits without support
  - 5. sits with support
  - 6. holds object with crude grasp to palm
- 376) Developmental milestones of an 1-year-old infant:
  - 1. speaks first words
  - 2. tells a short story
  - 3. stands without support
  - 4. can walk to the toilet
  - 5. dresses or undresses himself
- 377) Developmental milestones of a 9-months-old infant:
  - 1. is sitting without support
  - 2. can understand spoken speech and respond in an appropriate manner to verbal requests e.g. «Where is daddy?»
  - 3. crawls, keeping his abdomen off the ground
  - 4. can hold small object between index finger and thumb (pincer grasp)
- 378) Developmental milestones of an 1-month-old infant:

- 1. lifts the chin up momentarily in the midline
- 2. holds his head in vertical position
- 3. recognizes the mother
- 4. turns his head towards the sound of a bell or a rattle
- 379) Which of the following are considered as extensively hydrolyzed formulas?
  - 1. Alfare
  - 2. Humana HA
  - 3. Frisopep
  - 4. HiPP AR
  - 5. PreNAN
- 380) Recommended prophylactic dose for vitamin D in neonates and infants (up to 1 year of age) is:
  - 1. 400–600 IU/day
  - 2. 100–200 IU/day
  - 3. 1,000–2,000 IU/day
- 381) Deficient level of vitamin D diagnoses if serum 25(OH)D is:
  - 1. less40 ng/mL
  - 2. less 20 ng/mL
  - 3. 50 ng/mL
- 382) Typical laboratory findings for nutritional rickets are following:
  - 1. decreased serum 25(OH)D level
  - 2. decreased serum phosphorus
  - 3. decreased serum calcium
  - 4. increased serum calcium
  - 5. decreased alkaline phosphatase (ALP)
  - 6. increased alkaline phosphatase (ALP)
  - 7. increased serum phosphorus
- 383) Hypocalcemia (for term infants) is diagnoses if:
  - 1. total serum calcium less than 2 mmol/L or ionized calcium less than 1.1 mmol/L
  - 2. total serum calcium less than 2,5 mmol/L or ionized fraction of less than 1.5 mmol/L
  - 3. total serum calcium concentration less than 3 mmol/L or ionized calcium less than 2 mmol/L
- 384) The principals of complementary foods introduction for infant:1. complementary foods should be given with a small spoon before breast/formula feeding

- 2. complementary foods should be given with a small spoon after breast/formula feeding
- 3. cereals or vegetables puree are recommended to be introduced first
- 4. fruit juice is recommended to be introduced at 3 months
- 5. meat is recommended to be introduced after 9months
- 6. the whole egg is recommended to be introduced at 5 months
- 385) Recommended daily amount of food for an 8-month-old child:
  - 1. 1/8 of body mass
  - 2. 1/7 of body mass
  - 3. 1/6 of body mass
  - 4. 1/5 of body mass
- 386) Recommended daily amount of food for a 3-month-old child:
  - 1. 1/5 of body mass
  - 2. 1/4 of body mass
  - 3. 1/6 of body mass
  - 4. 1/7 of body mass
- 387) Which of the following are specialized formulas:
  - 1. NAN-2
  - 2. Frisolac 1
  - 3. NAN AR
  - 4. Alfare
  - 5. Neocate
- 388) Heart failure, depending on the rate of development of symptoms divided by:
  - 1. acute HF
  - 2. subacute HF
  - 3. chronic HF
  - 4. recurrent HF
- 389) Acute heart failure is characterized by:
  - 1. life-threatening condition
  - 2. rapid onset symptoms of HF
  - 3. requiring hospitalisation
  - 4. long-term condition
- 390) Left-sided heart failure is generally associated with signs of:
  - 1. pulmonary venous congestion
  - 2. systemic venous congestion

- 391) Right-sided heart failure is generally associated with signs of:
  - 1. pulmonary venous congestion
  - 2. systemic venous congestion
- 392) Congestive heart failure with normal cardiac output is classified as:
  - 1. compensated
  - 2 .uncompensated
- 393) Congestive heart failure with inadequate cardiac output is classified as:
  - 1. compensated
  - 2. uncompensated
- 394) Left ventricular failure can be divided into:
  - 1. compensated, uncompensated
  - 2. systolic, diastolic dysfunction
  - 3. acute, subacute
- 395) HF in children can be divided into two groups according causes:
  - 1. over-circulation failure, pump failure
  - 2. systolic, diastolic dysfunction
  - 3. compensated, uncompensated
- 396) Select symptoms of right-sided heart failure:
  - 1. hepatosplenomegaly
  - 2. ascites
  - 3. decreased urine output
  - 4. pulmonary edema
- 397) Select symptoms of right-sided heart failure:
  - 1. edema (puffiness of the eyes or feet)
  - 2. pleural effusions
  - 3. cardiac asthma
  - 4. bradypnea
- 398) Select symptoms of left-sided heart failure:
  - 1. hepatosplenomegaly
  - 2. nasal flaring or grunting
  - 3. recurrent wheezing
  - 4. tachypnea
- 399) Select symptoms of left-sided heart failure:

- 1. tachypnea
- 2. respiratory distress
- 3. cyanosis
- 4. diaphoresis during feedings
- 5. ascites and/or pleural effusions
- 400) Which classification of heart failure for children is used?
  - 1. NYHA classification
  - 2. ACC/AHA classification
  - 3. Ross classification
  - 4. ARF classification
  - 5. Jones criteria
- 401) Class I (Ross classification):
  - 1. asymptomatic
  - 2. mild tachypnea or diaphoresis with feeding in infants, dyspnea on exertion in older children
  - 3. marked tachypnea or diaphoresis with feeding in infants, marked dyspnea on exertion, prolonged feeding times with growth failure
  - 4. symptoms such as tachypnea, retractions, grunting, or diaphoresis at rest
- 402) Class II (Ross classification):
  - 1. symptoms such as tachypnea, retractions, grunting, or diaphoresis at rest
  - 2. mild tachypnea or diaphoresis with feeding in infants, dyspnea on exertion in older children
  - 3. marked tachypnea or diaphoresis with feeding in infants, marked dyspnea on exertion, prolonged feeding times with growth failure
  - 4. asymptomatic
- 403) Class III (Ross classification):
  - 1. asymptomatic
  - 2. mild tachypnea or diaphoresis with feeding in infants, dyspnea on exertion in older children
  - 3. marked tachypnea or diaphoresis with feeding in infants, marked dyspnea on exertion, prolonged feeding times with growth failure
  - 4. symptoms such as tachypnea, retractions, grunting, or diaphoresis at rest
- 404) Class IV (Ross classification):
  - 1. asymptomatic

- 2. mild tachypnea or diaphoresis with feeding in infants, dyspnea on exertion in older children
- 3. symptoms such as tachypnea, retractions, grunting, or diaphoresis at rest
- 4. marked tachypnea or diaphoresis with feeding in infants, marked dyspnea on exertion, prolonged feeding times with growth failure
- 405) Class I (NYHA classification):
  - 1. no limitations of physical activity
  - 2. symptoms with minimal exertion that interfere with normal daily activity
  - 3. may experience fatigue, palpitations, dyspnea, or angina during moderate exercise but not during rest
  - 4. unable to carry out any physical activity because they typically have symptoms of HF at rest that worsen with any exertion
- 406) Class II (NYHA classification):
  - 1. no limitations of physical activity
  - 2. symptoms with minimal exertion that interfere with normal daily activity
  - 3. may experience fatigue, palpitations, dyspnea, or angina during moderate exercise but not during rest
  - 4. unable to carry out any physical activity because they typically have symptoms of HF at rest that worsen with any exertion

# 407) Class III (NYHA classification):

- 1. no limitations of physical activity
- 2. symptoms with minimal exertion that interfere with normal daily activity
- 3. may experience fatigue, palpitations, dyspnea, or angina during moderate exercise but not during rest
- 4. unable to carry out any physical activity because they typically have symptoms of HF at rest that worsen with any exertion

# 408) Class IV (NYHA classification):

- 1. no limitations of physical activity
- 2. symptoms with minimal exertion that interfere with normal daily activity
- 3. unable to carry out any physical activity because they typically have symptoms of HF at rest that worsen with any exertion
- 4. may experience fatigue, palpitations, dyspnea, or angina during moderate exercise but not during rest

- 409) Select basic investigations in patients with suspected heart failure:
  - 1. chest radiography
  - 2. electrocardiography
  - 3. echocardiography
  - 4. metabolic and genetic testing
  - 5. endomyocardial biopsy
- 410) Select special investigations in patients with heart failure:
  - 1. cardiac magnetic resonance imaging
  - 2. electrocardiography
  - 3. polymerase chain reaction
  - 4. metabolic and genetic testing
  - 5. endomyocardial biopsy
- 411) Drugs used in pediatric heart failure:
  - 1. furosemide
  - 2. digoxin
  - 3. metopropol
  - 4. bicillin-5
  - 5. metronidazole
- 412) Furosemide is given intravenously at a dose of:
  - 1. 0,1-0,2 mg/kg
  - 2. 1-2 mg/kg
  - 3. 10-20 mg/kg
- 413) Device therapy in heart failure includes:
  - 1. cardiac resynchronization therapy
  - 2. extracorporeal membrane oxygenation
  - 3. pacemaker therapy
  - 4. cardiac magnetic resonance imaging
  - 5. endomyocardial biopsy
- 414) Cardiomegaly on pediatric chest radiography is suggested by a cardiothoracic ratio of:
  - 1. more 60% in neonates
  - 2. more 55% in neonates
  - 3. more 55% in older children
  - 4. more 50% in older children

	ANSV	VERS	
<b>1</b> – 1, 2, 3	<b>101</b> – 1, 2	<b>201</b> – 1	<b>301</b> – 2, 3, 5
<b>2</b> – 1	<b>102</b> – 3, 4	<b>202</b> – 1	<b>302</b> – 1, 2, 3, 5
3 – 4	<b>103</b> – 2, 3, 4	<b>203</b> – 1	<b>303</b> – 1, 2, 4
<b>4</b> – 1	<b>104</b> – 1, 5	<b>204</b> – 1, 3, 4	<b>304</b> – 1, 3, 4, 5
<b>5</b> – 3	<b>105</b> – 1	<b>205</b> – 1, 2, 3, 4	<b>305</b> – 1, 2, 3, 5
<b>6</b> – 1, 2, 4	<b>106</b> – 1, 3	<b>206</b> – 1, 4	<b>306</b> – 1, 2, 4
7 – 4	<b>107</b> – 1	<b>207</b> – 1, 2, 3, 4	<b>307</b> – 1
8-2	<b>108</b> – 1, 2, 3	<b>208</b> – 1	<b>308</b> – 1, 2, 4, 5
<b>9</b> – 3	<b>109</b> – 1, 2, 3	<b>209</b> – 2	<b>309</b> – 1, 3, 4
<b>10</b> – 1, 2, 3	<b>110</b> – 1	<b>210</b> – 1	<b>310</b> – 1, 3, 4, 5
11 – 2	111 – 2	<b>211</b> – 3, 4	<b>311</b> – 2, 3, 4, 5
<b>12</b> – 2	<b>112</b> – 1	<b>212</b> – 1	<b>312</b> – 2, 4, 5
<b>13</b> – 3	<b>113</b> – 1, 2, 3, 4, 5,6	<b>213</b> – 1	<b>313</b> – 2
<b>14</b> – 1	<b>114</b> – 1	<b>214</b> – 1, 2, 3, 4	<b>314</b> – 2, 3, 5
15 – 2	<b>115</b> – 5	<b>215</b> – 1	<b>315</b> – 1, 4, 5
<b>16</b> – 4	<b>116</b> – 2, 3, 4	<b>216</b> – 2	<b>316</b> – 4
<b>17</b> – 1	<b>117</b> – 3	<b>217</b> – 2, 4, 5, 6	<b>317</b> – 1, 3, 5
<b>18</b> – 2	<b>118</b> – 1	<b>218</b> – 1, 2, 3	<b>318</b> – 1, 4
<b>19</b> – 1, 2, 4	<b>119</b> – 1, 2, 3	<b>219</b> – 1	<b>319</b> – 1
<b>20</b> – 1, 2	<b>120</b> – 1	<b>220</b> – 3	<b>320</b> – 4
<b>21</b> – 1	<b>121</b> – 1	<b>221</b> – 2	<b>321</b> – 1
<b>22</b> – 1	<b>122</b> – 1, 4	<b>222</b> – 1, 5	<b>322</b> – 3
<b>23</b> – 1	<b>123</b> – 1	<b>223</b> – 2, 5	<b>323</b> – 1, 5
<b>24</b> – 6	<b>124</b> – 1	<b>224</b> – 1, 3, 4	<b>324</b> – 2
<b>25</b> – 3	<b>125</b> – 1, 2, 3, 4	<b>225</b> – 1	<b>325</b> – 1, 3
<b>26</b> – 1, 2	<b>126</b> – 1	<b>226</b> – 1	<b>326</b> – 5
<b>27</b> – 3, 4	<b>127</b> – 3	<b>227</b> – 2, 3	<b>327</b> – 1
<b>28</b> -4	<b>128</b> – 1, 2, 3	<b>228</b> – 3	<b>328</b> – 1, 2, 3, 4
<b>29</b> – 1	<b>129</b> – 1, 2	<b>229</b> – 1, 2, 3, 4	<b>329</b> – 1, 3, 4

<b>30</b> – 1, 2	<b>130</b> – 2	<b>230</b> – 4	<b>330</b> – 2
<b>31</b> – 1, 2, 3	<b>131</b> – 1	<b>231</b> – 1, 3, 4	<b>331</b> – 1, 3
<b>32</b> – 1, 3, 4, 5	<b>132</b> – 1, 3, 4, 5	<b>232</b> – 1	<b>332</b> – 1
<b>33</b> – 1, 3, 4, 5	<b>133</b> – 1, 2, 3, 4	<b>233</b> – 2	<b>333</b> – 1
<b>34</b> – 2, 3, 4, 5	<b>134</b> – 1, 2, 4	<b>234</b> – 2	<b>334</b> – 2
<b>35</b> – 2	<b>135</b> – 1	<b>235</b> – 1, 2, 3, 4	<b>335</b> – 1
<b>36</b> – 5	<b>136</b> – 6	<b>236</b> – 2	336 - 2
<b>37</b> – 1, 2, 3	<b>137</b> – 1, 2, 3	<b>237</b> – 2	<b>337</b> – 1, 2
<b>38</b> – 3, 4, 6	<b>138</b> – 2, 3, 4	<b>238</b> – 5	<b>338</b> – 1, 2
<b>39</b> – 1, 2, 5	<b>139</b> – 1	<b>239</b> – 1, 2, 3, 4	<b>339</b> – 2, 3, 4
<b>40</b> – 1	<b>140</b> – 1, 2, 3	<b>240</b> – 1, 2, 4	<b>340</b> – 1
<b>41</b> – 2	<b>141</b> – 1	<b>241</b> – 2	341 – 2
<b>42</b> – 3	<b>142</b> – 2	<b>242</b> – 3	<b>342</b> – 3, 4
<b>43</b> – 2	<b>143</b> – 3	<b>243</b> – 1, 2	<b>343</b> – 1, 2, 5
<b>44</b> – 3	<b>144</b> – 5	<b>244</b> – 1	<b>344</b> – 3, 4
<b>45</b> – 1	<b>145</b> – 1	<b>245</b> – 2	<b>345</b> – 1
<b>46</b> – 1, 2	<b>146</b> – 3	<b>246</b> – 4	346 - 2
<b>47</b> – 1, 3	147 – 2	<b>247</b> – 4	<b>347</b> – 5
<b>48</b> – 1, 2	<b>148</b> – 1, 3	<b>248</b> – 2	<b>348</b> – 1
<b>49</b> – 3, 4	<b>149</b> – 3	<b>249</b> – 4	<b>349</b> – 2
<b>50</b> – 2, 3	<b>150</b> – 2, 3	<b>250</b> – 3	<b>350</b> – 3
<b>51</b> – 1	151 – 2	251 – 4	351 – 2
<b>52</b> – 1	<b>152</b> – 1	<b>252</b> – 1, 2	<b>352</b> – 1
<b>53</b> – 3	<b>153</b> – 2	<b>253</b> – 1, 3	<b>353</b> – 1
<b>54</b> – 2	<b>154</b> – 2	<b>254</b> – 5	<b>354</b> – 2
<b>55</b> – 1	<b>155</b> – 2	<b>255</b> – 1, 2, 3	<b>355</b> – 1
<b>56</b> – 4	<b>156</b> – 2	<b>256</b> – 1, 2, 4	356 - 2
<b>57</b> – 2, 3, 4	<b>157</b> – 1	<b>257</b> – 1, 2, 4, 5	<b>357</b> – 2
<b>58</b> – 4	<b>158</b> – 3	<b>258</b> – 1, 2, 3	<b>358</b> – 1
<b>59</b> – 1, 2, 3, 4, 5	<b>159</b> – 1, 2, 4	<b>259</b> – 5	<b>359</b> – 1

<b>60</b> – 2	<b>160</b> – 1, 2, 3	<b>260</b> – 1, 2	<b>360</b> – 1
<b>61</b> – 1, 2, 3	<b>161</b> – 5	<b>261</b> – 2	<b>361</b> – 1
<b>62</b> – 1, 2, 3	<b>162</b> – 2, 3	<b>262</b> – 1	<b>362</b> – 2, 3
<b>63</b> – 1, 2, 3	<b>163</b> – 1, 2, 3	<b>263</b> – 1, 2, 3, 4	<b>363</b> – 1
<b>64</b> – 1, 2, 4, 5	<b>164</b> – 1, 3	<b>264</b> – 1, 2, 4, 5	<b>364</b> – 3
<b>65</b> – 1, 2	<b>165</b> – 1, 3	<b>265</b> – 5	<b>365</b> – 2
<b>66</b> – 1, 2, 3, 4, 5	<b>166</b> – 1, 2, 3, 5	<b>266</b> – 1, 2	<b>366</b> – 2
<b>67</b> – 1, 2	<b>167</b> – 4	<b>267</b> – 1, 2, 3	<b>367</b> – 2
<b>68</b> – 1, 3, 4	<b>168 –</b> 5	<b>268</b> – 2, 4	<b>368</b> – 1, 4, 5, 6
<b>69</b> – 4	<b>169</b> – 1	<b>269</b> – 1	<b>369</b> – 1, 3, 5
70 - 4	<b>170</b> – 3	<b>270</b> – 1	<b>370</b> – 1, 3, 4, 6
<b>71</b> – 1, 3, 4	<b>171</b> – 2	<b>271</b> – 2	<b>371</b> – 1
<b>72</b> – 2	<b>172</b> – 4	<b>272</b> – 1, 2, 4, 5	<b>372</b> – 1
<b>73</b> – 3	<b>173</b> – 2, 3, 5, 6	<b>273</b> – 3, 4, 5	<b>373</b> – 1
<b>74</b> – 1	<b>174</b> – 2	<b>274</b> – 1, 2, 4, 5	<b>374</b> – 1, 2, 4, 5
<b>75</b> – 2	175 – 2	<b>275</b> – 1, 2, 4, 5	<b>375</b> – 1, 2, 5, 6
<b>76</b> – 1, 2, 4, 5	<b>176</b> – 2	<b>276</b> – 1, 2, 3, 4	<b>376</b> – 1, 3
77 – 3	177 – 3	<b>277</b> – 1, 2, 3	<b>377</b> – 1, 2, 3, 4
<b>78</b> – 1, 2, 3, 6	<b>178</b> – 5	<b>278</b> – 1, 3	<b>378</b> – 1, 3, 4
<b>79</b> – 1, 4, 5	<b>179</b> – 1	<b>279</b> – 1, 3	<b>379</b> – 1, 3
<b>80</b> – 1, 2, 4, 5	<b>180</b> – 5	<b>280</b> – 1, 3, 4	<b>380</b> – 1
81 – 2, 3, 5, 6, 7	<b>181</b> – 4	<b>281</b> – 1, 2, 3	<b>381</b> – 2
<b>82</b> – 1, 2, 5, 6	<b>182</b> – 1, 2, 3	<b>282</b> – 1, 2, 3, 5	<b>382</b> – 1, 2, 3, 6
<b>83</b> – 1	<b>183</b> – 1, 2, 3	<b>283</b> – 1	<b>383</b> – 1
<b>84</b> – 1	<b>184</b> – 2	<b>284</b> – 1, 2	<b>384</b> – 1, 3
<b>85</b> -1,6	<b>185</b> – 1	<b>285</b> – 2, 3, 4, 5	<b>385</b> – 1
<b>86</b> – 1, 3, 4	<b>186</b> – 3, 4	<b>286</b> – 1, 2	<b>386</b> – 3
<b>87</b> – 1	<b>187</b> – 1	<b>287</b> – 2, 3	<b>387</b> – 3, 4, 5
<b>88</b> – 3	<b>188</b> – 3	<b>288</b> – 1	<b>388</b> – 1, 3
<b>89</b> – 1, 3, 4, 5	<b>189</b> – 1	<b>289</b> – 2	<b>389</b> – 1, 2, 3

<b>90</b> – 1, 2, 3	<b>190</b> – 1	<b>290</b> – 2	<b>390</b> – 1
<b>91</b> – 1, 2, 3, 4	<b>191</b> – 1, 2, 5, 6	<b>291</b> – 1, 2, 4	<b>391</b> – 2
<b>92</b> – 1	<b>192</b> – 1, 2	<b>292</b> – 3	<b>392</b> – 1
<b>93</b> – 1, 2, 3, 4	<b>193</b> – 1	<b>293</b> – 1, 2, 3	<b>393</b> – 2
<b>94</b> – 1	<b>194</b> – 1, 3, 5	<b>294</b> – 1, 3, 5	<b>394</b> – 1, 2
<b>95</b> – 1	<b>195</b> – 1	<b>295</b> – 3	<b>395</b> – 1
<b>96</b> – 1, 2, 3	<b>196 –</b> 1	<b>296</b> – 2	<b>396</b> – 1, 2, 3
<b>97</b> – 5	<b>197</b> – 1, 3, 4	<b>297</b> – 4	<b>397</b> – 1, 2
<b>98</b> – 3	<b>198</b> – 1, 2, 5	<b>298</b> – 1, 2, 4, 5	<b>398</b> – 2, 3, 4
<b>99</b> – 1, 3	<b>199 –</b> 8	<b>299</b> – 1, 3, 5	<b>399</b> – 1, 2, 3, 4
<b>100</b> – 1, 2	<b>200</b> – 1, 2, 3	<b>300</b> – 1, 4	<b>400</b> – 1, 2, 3
			401 1

398 - 2, 3, 4 399 - 1, 2, 3, 4 400 - 1, 2, 3 401 - 1 402 - 2 403 - 3 404 - 3 405 - 1 406 - 2 407 - 3 408 - 3 409 - 1, 2, 3 410 - 1, 3, 4, 5 411 - 1, 2, 3 412 - 2 413 - 1, 2, 3414 - 1, 3