

Questions for the state exam in surgery

*prof. MUDr. Marian Vidišćák, PhD., FEBPS
garant of surgery*

1.
 - a. Malignant tumors of the liver
 - b. Inguinal and femoral hernia
 - c. Local anesthesia - methods and type of anesthesia, local anesthetics
2.
 - a. Asepsis and antisepsis - history, definition, methods. Principles of hygienic standards in operating rooms
 - b. Perioperative care in childhood
 - c. Neurogenic urinary disorders
3.
 - a. Sterilization methods, department of central sterilization
 - b. Umbilical hernia and hernia in linea alba, incisional hernia
 - c. Concussion, axonal injury, brain commotion and contusion
4.
 - a. Disinfection - main disinfectants
 - b. Chronic venous insufficiency of the lower limbs
 - c. Hematuria and pyuria
5.
 - a. Diagnosis of tumors
 - b. Incarcerated hernia
 - c. Types of post-traumatic intracranial haemorrhage
6.
 - a. Cardio-pulmonary resuscitation, management of acute respiratory failure
 - b. Congenital deformities of the chest wall in children
 - c. Renal colic and its differential diagnosis of abdominal pain
7.
 - a. Punction, evacuation, drainage
 - b. Hernia's in childhood
 - c. Principles of miniminvasive surgery
8.
 - a. Skin grafting and flap surgery
 - b. Diaphragmatic and internal hernia
 - c. Hand injuries (bones, tendons, vessels, nerves)
9.
 - a. Nephrostomy, epicystostomy
 - b. Acute abdomen - definition, classification, role of the first contact physician
 - c. Skull fractures
10.
 - a. Blood transfusion and blood products, indication and contraindication, complication.
 - b. Principles of heart, lung, liver and kidney transplant
 - c. Urine retention. Urine incontinence, enuresis nocturna in children
11.
 - a. Types of basic surgical procedures
 - b. Fractures of the heel and ankle
 - c. Determination of biological activity of tumors, TNM classification, principles of surgery for malignant diseases, adjuvant therapy

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12. a. Bleeding - types and methods of haemostasis
b. Foreign bodies in the respiratory and digestive tract
c. Spinal injuries (ligaments and fractures)
13. a. Tracheostomy and coniotomy
b. Congenital heart defects except aortal coarctation
c. Congenital and acquired disorders of the spleen, surgical therapy
14. a. Thrombophlebitis and phlebotrombosis –differential diagnosis
b. Subacute appendicitis
c. Vascular accesses
15. a. Traumatic wounds – types and occurrence mechanism
b. Pneumothorax and haemothorax
c. Diabetic foot – pathophysiology, clinical aspects, principles of treatment
16. a. Wound healing and its disorders
b. Invagination and intussusception of the intestine
c. Knee injuries (meniscuses, ligaments), knee dislocation
17. a. Tetanus - prevention and treatment
b. Acute and subacute cholecystitis
c. Intracerebral hemorrhage
18. a. Burns - classification, first aid, treatment
b. Congenital defects of abdominal wall
c. Acute appendicitis, appendicitis in children, elderly, pregnancy
19. a. War wounds and their peculiarities - classical, nuclear, chemical, biological
b. Cholecystolithiasis
c. Spinal cord injuries (urgent help, transport, diagnosis, treatment)
20. a. Definitive wound treatment
b. Cardiac tamponade
c. Urosepsis
21. a. Fractures in the ankle area (intra and extraarticular, whistle, pillar)
b. Biliary tract disorders
c. Aneurysms of cerebral vessels, arteriovenous malformations
22. a. Surgical infections - prevention and treatment principles
b. Benign liver tumors
c. Congenital foot malformations
23. a. Phlegmon and abscess - definition, management and treatment
b. Evaluation and management of acute abdomen - history, clinical and paraclinical examinations
c. Fractures of ribs and sternum

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24. a. Folliculitis, furunculus, carbunculus
b. Pleural effusion (exudate)
c. Kidney developmental anomalies
25. a. Diagnostic and therapeutic endoscopy of the gastrointestinal tract
b. Cholecystitis, cholangitis
c. First aid for injuries
26. a. Portal hypertension, etiology, complication and surgery
b. Gallbladder carcinoma
c. Amputations – types and indications
27. a. Erysipelas and erysipeloid
b. Esophageal atresia
c. Principles of enteral and parenteral nutrition of a surgical patient
28. a. Nosocomial infections
b. Jaundice
c. Pylorostenosis – symptoms, diagnosis, treatment
29. a. Anaerobic infections - gas phlegmon, gas gangraene
b. Abdominal aortic aneurysm
c. Cysts and abscesses of the liver
30. a. Hypothermia and frostbite
b. Acute pancreatitis
c. Emergency wound treatment. Transport of injured and ill, patient positions
31. a. Bite wounds
b. Intraabdominal abscesses
c. Developmental anomalies of the ureter and urinary bladder
32. a. Shooting injuries - characteristics and principles of surgical treatment
b. Chronic pancreatitis
c. Principles of triage systems in mass casualty incidents and disasters
33. a. Shock in surgery
b. Thoracic empyema
c. Secondary wound healing, principles of treatment
34. a. Urethral stricture, phimosis
b. Tumors of the pancreas and surgical treatment
c. Lower limb deformities
35. a. Crush syndrome
b. Sepsis in surgery
c. Congenital anomalies of male genitalia

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36. a. Blast syndrome
b. Pancreatic cysts and pseudocysts
c. Tumors the brain
37. a. Purulent disease of the hand
b. Intestinal stenoses and atresias
c. Caustic and corrosive injury of the esophagus
38. a. Principles of preoperative evaluation and preparation for surgery
b. Tumors of kidneys, urinary bladder and testicles
c. Post-traumatic haemoperitoneum (spleen and liver injury). Injury of the intestine.
39. a. Post-operative management of patient
b. Peripheral arterial obliterating diseases
c. Hydrocele and varicocele
40. a. Atherosclerosis of the lower limbs, clinical symptoms, diagnosis, treatment
b. Complications of gastroduodenal peptic ulcer disease
c. Hydrocephalus
41. a. Complications of surgical wound healing
b. Invasive and non-invasive imaging methods in vascular surgery. Basic procedures in vascular surgery. Endovascular treatment of vascular disorders
c. Deformities of the spine
42. a. Postoperative complications
b. Heart injuries
c. Necrotizing enterocolitis in newborn (etiology, classification, treatment, prognosis)
43. a. Aesthetic surgery
b. Tumors of the lungs
c. Soft tissues injury of the ankle (Achilles tendon, ankle tendon injury)
44. a. Fat embolism and air embolism
b. Cleft lip and cleft palate
c. Ethical and legal responsibility in surgery – consent form and patient disapproval
45. a. Pressure ulcers - pathogenesis, prevention and care
b. Stomach cancer
c. Duodenal and pancreatic injuries
46. a. Injuries of soft tissues, skin, fascia, muscles
b. Anorectal malformations
c. Embolism and thrombosis - definition and division

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- 47. a. Tendon injuries, diagnosis and treatment
 - b. Peritonitis - classification, causes, diagnosis, treatment
 - c. Malignant tumors of the breast

- 48. a. Peripheral nerve injuries - diagnosis and treatment
 - b. Acute arterial occlusions
 - c. Crohn disease

- 49. a. Vascular injuries - diagnostics, first aid and definitive treatment
 - b. Damage control surgery
 - c. Intra-abdominal hypertension, acute abdominal compartment syndrome

- 50. a. Distortion and luxation
 - b. Hirschsprung's disease
 - c. Brain abscess

- 51. a. Open fractures - classification, first aid and treatment principles
 - b. Ileus – classification, diagnosis, treatment
 - c. Sutures, anastomoses, ostomies

- 52. a. Fractures in general - mechanism of onset, classification, dislocations
 - b. Gastroesophageal reflux disease (GERD), pathophysiology and surgical treatment
 - c. Benign and malignant skin tumors

- 53. a. Conservative treatment of fractures
 - b. Congenital malformations of the large intestine and rectum and their surgical treatment
 - c. Tumors of bones and muscles

- 54. a. Surgical treatment of fractures, types of osteosynthesis
 - b. Diverticulosis and diverticulitis of the colon
 - c. Urolithiasis

- 55. a. Haemorrhoids, anal fissura
 - b. Polytrauma - definition, principles of first aid and treatment
 - c. Achalasia

- 56. a. Healing of fractures using conservative and surgical treatment
 - b. Intestinal malrotation
 - c. Chronic osteomyelitis

- 57. a. Ulcerous colitis
 - b. Colorectal cancer
 - c. Injury of the kidneys, ureters, urine bladder and urethra

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- 58. a. Antibiotic prophylaxis and therapy in surgery
 - b. Gangrene of the limbs, causes, principles of amputations
 - c. Hydronephrosis

- 59. a. Complications of fractures healing
 - b. Fistula and abscess of the rectum, sinus pilonidalis
 - c. Purulent joint inflammation

- 60. a. Thromboembolic disease and its prevention
 - b. Traumatic acute abdomen - classification and diagnosis
 - c. Fractures and luxations of the upper limb girdle

- 61. a. Acute osteomyelitis
 - b. Fractures of femur, hip joint luxation and dislocation
 - c. Cystic kidney disease

- 62. a. Peripheral and central vein accesses
 - b. Bleeding from the gastrointestinal tract
 - c. Pelvic fractures (stable, unstable) and their complications

- 63. a. Diverticula and strictures of the esophagus
 - b. Congenital malformations of the hand and upper limb
 - c. Fractures in the lower end of forearm and wrist

- 64. a. Basic classification of the tumors, etiopathogenesis of the tumors
 - b. Tumors of the esophagus, diagnosis, treatment
 - c. Fracture of the proximal and middle part of the humerus

- 65. a. Fractures in the elbow region (olecranon, proximal end of radius and ulna, Monteggia fracture)
 - b. Meconium ileus
 - c. Benign prostatic hyperplasia, prostatic cancer

- 66. a. Diagnostic and therapeutic endoscopic methods in urology and orthopedic surgery
 - b. Surgical treatment of adrenal diseases
 - c. Fractures of the distal end of the humerus in children (supracondylar) and adults

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