

Educational Institution
«Gomel state medical university»
Specialty 1-79 01 01 «Medicine»

APPROVED BY
Dean of the Faculty of international students

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QUESTIONS FOR THE STATE FINAL EXAMINATIONS
ON SURGICAL DISEASES
2025/2026 academic year

GENERAL SURGERY

1. Aseptics. Prevention of droplet, contact, implant infection.
2. Antiseptics. Methods. Principles of effective antibacterial therapy.
3. Bleeding. Classification, methods of temporary and permanent hemostasis. Determining the severity of blood loss.
4. Principles of compensation for circulating blood volume in bleeding.
5. Blood transfusion: indications and methods. Blood typing (grouping) for ABO and Rh (rhesus) status.
6. Complications of blood transfusion. Prevention. Treatment.
7. Blood substitutes. Classification and indications for their use. Hemodilution.
8. Principles of enteral and parenteral nutrition in surgery.
9. Wounds. Classification, pathways of wound healing, principles of wound treatment.
10. Wound complications. Clinical manifestations, diagnostics, treatment, prevention.
11. Postoperative period. Complications, their treatment, prevention.
12. Plastic and aesthetic surgery. Types of operations. Indications.
13. Transplantation of organs and tissues. Types, indications, outcomes. Organ donation and compatibility problems.
14. Purulent diseases of skin and soft tissues. Etiology. Pathogenesis. Clinical manifestations. Treatment.
15. Felon and purulent diseases of the hand. Classification, diagnostics, treatment.
16. Osteomyelitis. Classification, pathogenesis, clinical manifestations, treatment. Primary chronic osteomyelitis.
17. Mastitis. Classification, clinical manifestations, diagnostics, treatment.
18. Clostridial anaerobic infection. Pathogens. Clinical manifestations, diagnostics, treatment, prevention.
19. Anaerobic non-clostridial and putrid infection. Pathogens. Clinical manifestations, diagnostics, treatment.

20. Tetanus. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment, prevention.
21. Sepsis. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
22. Crush syndrome. Clinic treatment.
23. Burns. Classification, clinical detection of burn area and depth. Treatment.
24. Frostbite. Classification, diagnostics, treatment.
25. Necrosis, gangrene, bedsores, trophic ulcers. Causes, clinical manifestations, diagnostics, treatment.

SURGICAL DISEASES

1. Acute appendicitis. Etiology, pathogenesis, clinical manifestations, differential diagnostics. Surgical approaches.
2. Peculiarities of acute appendicitis in cases of atypical location of the appendix. Acute appendicitis at an advanced age.
3. Acute appendicitis in pregnancy. Clinical manifestations, diagnostics, treatment.
4. Appendicular mass and abscess. Clinical manifestations, diagnostics, treatment.
5. Complications after appendectomy. Clinical manifestations, diagnostics, treatment.
6. Chronic appendicitis. Tumors of the appendix.
7. Anterior abdominal wall hernias. Principles of treatment.
8. Strangulated abdominal hernias. Surgical tactics.
9. Diaphragmatic hernias: classification, diagnostics, treatment.
10. Gallstone disease. Prevalence. Risk factors. Clinical forms. Diagnostics. Treatment.
11. Acute cholecystitis. Clinical manifestations, diagnostics, treatment.
12. Complications of acute cholecystitis. Clinical manifestations, diagnostics, treatment.
13. Choledocholithiasis. Clinical manifestations, diagnostics, treatment. Indications and types of common bile duct drainage.
14. Obstructive jaundice. Causes, clinical manifestations, diagnostics, treatment.
15. Cholangitis. Clinical manifestations, diagnostics, treatment.
16. Bile duct strictures. Clinical manifestations, diagnostics, medical tactics.
17. Biliodigestive fistulas. Clinical manifestations, diagnostics, treatment.
18. Complications after cholecystectomy. Clinical manifestations, diagnostics, treatment.
19. Postcholecystectomy syndrome. Classification, diagnostics, medical tactics.
20. Acute pancreatitis. Classification, pathogenesis, clinical manifestations, diagnostics. Treatment tactics. Indications for surgical treatment.
21. Complications of acute pancreatitis. Clinical manifestations, diagnostics, treatment.
22. Chronic pancreatitis. Etiology, pathogenesis, classification, clinical manifestations, diagnostics, treatment.
23. Complications of chronic pancreatitis. Clinical manifestations, diagnostics, treatment.

24. Pancreatic cysts and fistulas, its complications. Treatment tactics.
25. Acute bowel obstruction. Etiology, clinical manifestations, diagnostics, treatment.
26. Adhesive bowel obstruction: Clinical manifestations, diagnostics, treatment.
27. Obstructive large-bowel obstruction. Clinical manifestations, diagnostics, treatment.
28. Strangulated bowel obstruction. Types, clinical manifestations, diagnostics, treatment.
29. Obstruction due to bowel invagination. Etiology, clinical manifestations, diagnostics and treatment.
30. Ileus. Causes, clinical manifestations, treatment.
31. Acute mesenteric ischemia. Etiology, clinical manifestations, diagnostics, treatment.
32. Chronic mesenteric ischemia. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
33. Duodenal peptic ulcer. Epidemiology. Pathogenesis. Treatment tactics.
34. Stomach peptic ulcer. Epidemiology. Pathogenesis. Treatment tactics.
35. Perforated ulcer. Classification, clinical manifestations, diagnostics. Medical tactics. Choice of surgery.
36. Endoscopic assessment of hemostasis stability in ulcerative gastroduodenal bleeding. Relapse prognosis.
37. Principles of conservative treatment of gastroduodenal ulcer bleeding.
38. Treatment tactics in gastroduodenal ulcer bleeding.
39. Duodenal ulcer stenosis. Clinical manifestations, diagnostics. Treatment.
40. Penetrating ulcer. Interorgan fistulas. Clinical manifestations, diagnostics. Treatment.
41. Malignant transformation of gastric ulcer. Clinical manifestations, diagnostics, treatment.
42. Post-resection syndromes: dumping syndrome, afferent loop syndrome, peptic ulcer of anastomosis. Pathogenesis, clinical manifestations, diagnostics, treatment.
43. Postvagotomy disorders: recurrent ulcers, gastrostasis, reflux esophagitis. Pathogenesis, clinical manifestations, diagnostics, treatment.
44. Symptomatic gastro-duodenal ulcers. Etiology, pathogenesis. Clinical manifestations, diagnostics, treatment.
45. Mallory-Weiss syndrome: etiology, clinical manifestations, diagnostics and treatment.
46. Crohn's disease. Differential diagnostics. Treatment tactics.
47. Ulcerative colitis. Differential diagnostics. Treatment tactics.
48. Complications of Crohn's disease and ulcerative colitis. Treatment tactics.
49. Colon diverticulosis. Treatment tactics.
50. Colon polyps. Treatment tactics.
51. Polyposis syndromes. Treatment tactics.
52. Acute proctitis. Etiology, clinical manifestations, diagnostics, treatment.
53. Chronic proctitis. Etiology, diagnostics, treatment.
54. Hemorrhoids. Clinical manifestations, diagnostics, treatment. Complications.

55. Anal fissure. Rectal prolapse. Pilonidal sinus. Treatment tactics.
56. Liver abscesses. Etiology, pathogenesis. Clinical manifestations, diagnostics, treatment.
57. Hepatic cysts. Classification, clinical manifestations, diagnostics, treatment.
58. Parasitic liver cysts. Etiology, pathogenesis, complications. Treatment tactics.
59. Benign liver tumors. Clinical manifestations, diagnostics, treatment.
60. Malignant tumors of liver. Clinical manifestations, diagnostics, treatment.
61. Portal hypertension. Etiology, pathogenesis, clinical manifestations, diagnostics. Treatment tactics. Types of interventions.
62. Bleeding from esophageal varices and gastric cardia. Clinical manifestations, diagnostics, treatment.
63. Complications of portal hypertension. Pathogenesis, clinical manifestations, diagnostics and treatment.
64. Abdominal trauma. Clinical manifestations, diagnostic techniques.
65. Invasive diagnostic methods in abdominal trauma. Indications. Technique.
66. Surgical tactics and principles of surgical treatment of abdominal trauma.
67. Trauma of parenchymal organs of abdominal cavity. Treatment tactics.
68. Trauma of hollow organs of abdominal cavity. Treatment tactics.
69. Peritonitis. Etiology, pathogenesis, classification, clinical manifestations. Basic principles of treatment.
70. Preoperative management of peritonitis. Principles of surgical treatment.
71. Postoperative peritonitis. Etiology. Treatment tactics. Laparostomy and planned relaparotomy. Indications.
72. Abdominal abscesses. Causes, clinical manifestations, diagnostics, treatment.
73. Pseudoabdominal syndrome. Classification, clinical manifestations, medical tactics.
74. Manifestations of surgical pathology in patients with diabetes. Medical tactics.
75. Diabetic foot. Pathogenesis, clinical manifestations, treatment.
76. Achalasia, scarring strictures and diverticula of esophagus. Clinical manifestations, diagnostics, treatment.
77. Nodular euthyroid goiter. Clinical manifestations, diagnostics, medical tactics.
78. Nodular toxic goiter. Clinical manifestations, diagnostics, treatment.
79. Diffuse toxic goiter. Clinical manifestations, diagnostics, treatment.
80. Thyroiditis. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
81. Lung abscess and gangrene. Etiology, clinical manifestations, diagnostics, treatment.
82. Acute suppurative pleuritis. Clinical manifestations, diagnostics, treatment.
83. Mediastinitis. Clinical manifestations, diagnostics, treatment. Tumors and cysts of mediastinum.

ONCOLOGY

1. Esophageal cancer. Clinical manifestations, diagnostics, treatment.
2. Gastric cancer. Clinical manifestations, diagnostics, treatment.

3. Colorectal cancer. Clinical manifestations, diagnostics, treatment.
4. Lung cancer. Clinical manifestations, diagnostics, treatment.
5. Pancreatic tumors. Clinical manifestations, diagnostics, treatment.
6. Thyroid cancer. Clinical manifestations, diagnostics, treatment.
7. Dishormonal breast disease and breast cancer. Clinical manifestations, diagnostics, treatment.
8. Skin tumors. Clinical manifestations, diagnostics, treatment.

CARDIOVASCULAR SURGERY

1. Varicose veins of the lower extremities. Pathogenesis, clinical manifestations, diagnostics. Complications. Principles of treatment.
2. Superficial thrombophlebitis. Etiology, clinical manifestations, treatment, prevention.
3. Deep vein phlebothrombosis. Etiology, clinical manifestations, treatment, prevention.
4. Postthrombophlebitic syndrome: classification, pathogenesis, clinical manifestations, treatment.
5. Risk factors for thrombosis and embolism. Pulmonary embolism. Clinical manifestations, diagnostics, treatment principles.
6. Raynaud's syndrome and disease. Pathogenesis, clinical manifestations, treatment.
7. Acute circulatory disorders. Pathogenesis, clinical manifestations, diagnostics and treatment.
8. Atherosclerotic lesions of lower limb arteries. Clinical manifestations, diagnostics, treatment.
9. Abdominal aortic aneurism and peripheral arterial aneurysms. Pathogenesis, classification, clinical manifestations, diagnostics, treatment.
10. Surgical treatment of ischemic heart disease and cardiac arrhythmias. Indications and types of operations.
11. Congenital and acquired heart defects. Clinical manifestations, diagnostics, treatment.
12. Vascular injuries. Clinical manifestations, diagnostics, tactics.

PEDIATRIC SURGERY

1. Acute appendicitis in children. Clinical manifestations, diagnostics, treatment.
2. Congenital bowel obstruction. Causes, clinical manifestations, diagnostics, treatment. Anorectal malformations.
3. Acquired bowel obstruction in children. Causes, clinical manifestations, diagnostics, treatment.
4. Inguinal and umbilical hernias in children. Pathogenesis. Complications, treatment.
5. Diaphragmatic hernia in children. Clinical manifestations, diagnostics, treatment.

6. Cryptorchidism. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
7. Congenital pyloric stenosis. Clinical manifestations, diagnostics, treatment.
8. Hirschsprung's disease. Pathogenesis, clinical manifestations, diagnostics and treatment.
9. Acute hematogenous osteomyelitis in children. Pathogenesis, clinical manifestations, diagnostics, treatment.

TRAUMATOLOGY AND ORTHOPAEDICS

1. Clavicle fractures and dislocations. Clinical manifestations, diagnostics, treatment.
2. Fractures and dislocations of the forearm bones. Clinical manifestations, diagnostics, treatment.
3. Shoulder fractures. Classification, diagnostics, treatment.
4. Shoulder dislocations. Classification, clinical manifestations, diagnostics, methods of reduction.
5. Hip fractures. Classification, diagnostics, treatment.
6. Traumatic hip dislocations. Diagnostics, methods of reduction, treatment.
7. Pelvis fractures. Classification, clinical manifestations, diagnostics, treatment.
8. Fractures, dislocations and subluxations of vertebrae. Classification, clinical manifestations, diagnostics, treatment.
9. Injuries of knee ligaments and menisci. Clinical manifestations, diagnostics, treatment.
10. Tibia fractures. Clinical manifestations, diagnostics, treatment.
11. Chest trauma. Pneumothorax, hemothorax. Classification, clinical manifestations, diagnostics, treatment.
12. Burn disease. Pathogenesis, stages, treatment.
13. Torticollis, clubfoot. Clinical manifestations, diagnostics, treatment.
14. Congenital hip dislocation, hip dysplasia. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
15. Posture. Scoliosis. Classification, diagnostics, treatment.
16. Static foot deformation. Types, clinical manifestations, diagnostics, treatment.
17. Osteoarthritis. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
18. Osteochondrosis. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.

UROLOGY

1. Acute pyelonephritis and paranephritis. Clinical manifestations, diagnostics and treatment.
2. Testicle and spermatic cord hydrocele. Varicocele. Pathogenesis, clinical manifestations, diagnostics and treatment.

3. Kidney and ureteral tumors. Classification, clinical manifestations, diagnostics, treatment.
4. Bladder tumors. Clinical manifestations, diagnostics, treatment.
5. Benign prostatic hyperplasia. Clinical manifestations, diagnostics and treatment. Prostate cancer.
6. Urolithiasis. Etiology, pathogenesis, clinical manifestations, diagnostics, treatment.
7. Urinary tract trauma. Classification, clinical manifestations, diagnostics, treatment.

OTORHINOLARYNGOLOGY

1. Trauma and fractures of nasal bones. Nasal bleeding. Causes, methods for hemostasis.
2. Acute and chronic sinusitis. Clinical manifestations, diagnostics, treatment.
3. Paratonsillar and parapharyngeal abscesses. Causes, clinical manifestations, diagnostics, treatment.
4. Acute and chronic laryngeal stenosis. Reasons, stages, treatment.
5. Otogenic intracranial complications. Pathogenesis, clinical manifestations, diagnostics, treatment, prevention.

MAXILLOFACIAL SURGERY

1. Purulent inflammatory diseases of maxillofacial area. Classification, clinical manifestations, diagnostics, treatment. Complications.
2. Trauma of maxillofacial area. Classification, clinical manifestations, diagnostics, treatment.

NEUROSURGERY

1. Craniocerebral trauma. Classification, clinical manifestations, diagnostics, treatment.
2. Spinal injury. Traumatic injuries of peripheral nerves. Clinical manifestations, diagnostics, treatment.
3. Nontraumatic subarachnoid hemorrhage. Etiology, pathogenesis, clinical manifestations, diagnostics and treatment.
4. Spinal cord tumors. Clinical manifestations, diagnostics, treatment.
5. Brain tumors. Classification. Clinical manifestations, diagnostics, treatment.

OPHTHALMOLOGY

1. Cataract. Clinical manifestations, diagnostics, treatment.

2. Glaucoma. Clinical manifestations, diagnostics, treatment.
3. Eye trauma. Complications. Clinical manifestations, diagnostics, treatment.

ANESTHESIOLOGY AND REANIMATOLOGY

1. Inhalation general anesthesia. Types, indications, stage.
2. Non-inhalation general anesthesia. Types, indications. Combined general anesthesia.
3. Local anesthesia. Types, indications, technique.
4. Procaine blockade. Types, indications, technique.
5. Shock. Pathogenesis, clinical manifestations, diagnostics, treatment.
6. Terminal state. Types, pathophysiology, symptoms.
7. Cardiopulmonary resuscitation. Indications, contraindications. Technique.
8. Detoxication methods in surgical diseases.

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