

◆ **Medicine**

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2. Describe the structure and function of the respiratory system.
3. Describe the structure and function of the circulatory system.
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5. Describe the structure and function of the integumentary system.
6. Describe the structure and function of the urinary system.
7. Describe the structure and function of the nervous system.
8. Describe the structure and function of the endocrine system.
9. Describe the structure and function of the reproductive system.
10. Describe at least 3 prevalent diseases, their symptoms and treatment.
11. Describe at least 3 common accidents & emergencies, their causes and treatment.
12. Describe pain, pain categories, and methods of pain relief.
13. Describe the impact of nutrition and lifestyle on the human health.
14. Describe the effects of ageing and common problems of the elderly.
15. Describe common mental health problems.
16. Describe at least 3 common medical procedures or diagnostic examinations.
17. Describe the importance of hygiene in hospitals and medical procedures.
18. Describe pharmacology and its meaning in medicine.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe the structure and function of a human cell. Provide some examples of specialised cells.
22. Describe the structure and function of the eye. What are the common eye diseases?
23. Describe the structure and function of the ear. What are the common ear diseases?
24. Describe diseases affecting the musculoskeletal system.
25. Describe diseases affecting the respiratory system.
26. Describe diseases affecting the cardiovascular system.
27. Describe diseases affecting the digestive system.
28. Describe diseases affecting the skin.
29. Describe diseases affecting the urinary system.
30. Describe diseases affecting the nervous system.
31. Describe diseases affecting the endocrine system.
32. Describe diseases affecting the reproductive system.
33. Describe infectious diseases: symptoms, treatment and outcomes – provide at least 3 examples.
34. Describe blood components, blood functions and blood diseases.
35. Describe the medical care of a pregnant woman.
36. Describe what happens during pregnancy and labour.
37. Describe some of the ethical dilemmas in medicine.
38. Describe the duties of different medical professionals who are not doctors.
39. Discuss a physical examination. Describe common clinical signs.
40. Discuss new trends and technological advances in medicine.

◆ Dentistry

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18. Discuss pharmacology with reference to drugs: classify at least 3 groups, describe their effects, and compare different routes of administration. Give 2 examples of possible adverse reactions.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe the structure of the oral cavity and teeth.
22. Describe different dental specialties.
23. Describe the equipment used in dentistry.
24. Describe restorative materials used in dentistry and compare their functions – provide at least 3 examples.
25. Talk about the most common medications in dentistry.
26. Describe the principles of taking dental history and good communication with the patient.
27. Describe dental examination.
28. Describe what regular dental care should look like.
29. Describe the structure, function, and disorders of the temporomandibular joint.
30. Describe different problems with tooth formation and eruption.
31. Describe xerostomia and halitosis.
32. Describe periodontal disease: causes, symptoms, and treatment.
33. Describe caries: causes, symptoms, and treatment.
34. Describe the indications for and the procedure of tooth resection.
35. Describe the indications for and the steps of a root canal treatment.
36. Describe the role of orthodontics and talk about appliances used.
37. Describe benefits and challenges of dental prosthetics.
38. Describe neoplasms and other diseases of the mouth: their causes, symptoms, and treatment.
39. Describe dental needs and treatment considerations in different patient groups, such as children, pregnant women, and older adults.
40. Explain how to deal with dental fear.

◆ Dietetics

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19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe types of diets – provide at least 5 examples.
22. Describe the influence of nutrients and diet on the condition of the skin – provide at least 3 examples.
23. Describe the role of commonly used herbs in supporting digestion – provide at least 3 examples, including their effects.
24. Describe at least 3 common metabolic diseases, their dietary management, and other methods of treatment.
25. Describe at least 3 common eating disorders and methods of their treatment.
26. Describe food poisoning, its symptoms and methods of treatment.
27. Define key principles of a child nutrition – provide at least 5 examples.
28. Describe how allergies and food sensitivities affect patients' health and everyday wellbeing – provide at least 3 examples.
29. How can patients' body weight affect their rehabilitation? Provide at least 3 examples.
30. Describe 3 dietary strategies for patients with cardiovascular diseases.
31. Compare vegetarian and vegan diets – describe at least 3 similarities and 3 differences.
32. Explain the role of nutrition in cancer prevention – provide at least 3 examples.
33. Describe the role of the gut microbiome in human health – provide at least 3 examples of its functions. How can food influence gut health?
34. Describe the impact of diet on the immune system – give at least 3 examples.
35. Describe the risks and benefits of high-protein diets.
36. Describe the role of hydration in maintaining health – provide at least 3 examples, including both optimal and suboptimal sources of fluids.
37. Describe how diet affects bone health, including nutrients, dietary patterns, and lifestyle factors – provide at least 3 examples.
38. Describe 5 main features of the Mediterranean diet. Why is it considered one of the healthiest and who can especially benefit from it?
39. Describe the impact of fast food and ultra-processed foods on health – provide at least 3 examples of associated health risks.
40. Describe the main types of diabetes, and provide at least 3 dietary recommendations for managing type II diabetes.

◆ Electroradiology

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20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Compare at least 3 examinations that use X-rays, including clinical applications, patient preparation, and procedural differences.
22. What are the benefits and limitations of mammography in breast cancer detection?
23. Describe the role of CT and MRI in emergency medicine, including advanced examination techniques.
24. Explain the differences between CT and MRI in terms of diagnostic value (strengths and limitations for various conditions) and patient preparation.
25. Describe various clinical applications of ultrasonography. What are its advantages and limitations?
26. Explain the role of ECG and Holter monitor in diagnosing heart conditions.
27. Describe the use of EEG in neurology. Which conditions can it help diagnose?
28. Describe at least 3 interventional radiology procedures, including indications, equipment, main risks and benefits.
29. What is nuclear medicine and how does it differ from standard radiology techniques?
30. Describe radiopharmaceuticals, contrast agents, and other drugs used in radiology, including indications, contraindications, and adverse reactions.
31. Describe radiotherapy, including advanced techniques and equipment, clinical application, limitations, risks and benefits.
32. Explain the principle and clinical use(s) of bone densitometry.
33. Compare the diagnostic use of spirometry and audiometry.
34. Describe radiation exposure and its potential consequences (e.g. radiation sickness or chronic radiation syndrome).
35. Describe the principles of radiation protection for patients and radiographers.
36. Explain the role of radiographers in the process of diagnosis and treatment.
37. Describe the radiology team – who do radiographers mostly collaborate with?
38. Discuss new trends and technological advances in radiology.
39. Describe medical and imaging equipment – provide at least 5 examples.
40. Explain the fundamentals of image interpretation in radiology and provide examples of frequently encountered pathologies in different imaging modalities.

◆ Physiotherapy

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19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Define methods of pain evaluation in physiotherapy – provide at least 3 examples.
22. Compare good and bad posture. Give at least 5 examples.
23. Describe how bad posture can affect health – provide at least 3 examples.
24. Describe how the site of injury can impact the condition of the spinal cord – provide at least 3 examples.
25. Describe indications for using a cast and methods of rehabilitation of a patient with a cast.
26. Describe differences between sprain, strain, and dislocations.
27. How can physiotherapy help patients with respiratory problems (e.g. cystic fibrosis or COPD)? Provide at least 3 examples.
28. Describe degenerative diseases which affect the patient's ROM – provide at least 3 examples.
29. How can patients' body weight affect their rehabilitation? Provide at least 3 examples.
30. Compare the following changes in the muscle tone: flaccidity, rigidity, and spasticity.
31. Describe how exercises on a ball can improve muscle tone and strength – provide at least 3 examples of exercises with a ball.
32. Provide 3 benefits of massage and discuss any massage contraindications.
33. Characterise 3 most common walking problems and propose adequate walking aids.
34. Provide at least 3 examples of walking aids and their indications.
35. Describe and provide at least 3 benefits of a postural drainage.
36. How can physiotherapy help patients with neurological problems (e.g. Bell's palsy or stroke)? Provide at least 3 examples.
37. Describe methods of joint rehabilitation – provide at least 3 examples.
38. Describe some most common sports injuries – provide at least 3 examples.
39. Describe how regular exercise can improve the patient's muscle and joint condition - provide at least 3 examples.
40. Describe cardiovascular fitness – provide 3 examples of cardiovascular exercise.

◆ Nursing

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18. Describe pharmacology and its meaning in medicine.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe the steps of CPR (cardiopulmonary resuscitation).
22. Describe the main types of diabetes and the essential aspects of nursing care for each type.
23. Describe palliative care, including symptom management and patient support.
24. Describe hospital admissions and outpatient care.
25. Describe triage assessment and common triage dilemmas.
26. Describe the role of nurses in monitoring the patient (consider vital signs, documentation, complications, and communication with the healthcare team).
27. Discuss key nursing considerations, interventions, and communication strategies when caring for patients in emergency situations.
28. Describe the key nursing considerations and interventions when caring for patients before and after surgery.
29. Describe alternative treatments and medicinal plants commonly used in nursing practice or patient care – provide at least 3 examples.
30. Explain nursing procedures for wound care, including dressing types and infection prevention.
31. Explain nursing care strategies for patients with respiratory diseases such as asthma, COPD, or acute respiratory infections.
32. Identify and describe common clinical signs of deceased or dying patients and the nurse's responsibilities.
33. Explain what hypertension is and the role of nurses in monitoring patients to prevent cardiovascular complications.
34. Discuss nursing approaches to bereavement support and strategies for breaking bad news to patients' families or relatives.
35. Describe Parkinson's disease and explain nursing care for patients, focusing on mobility, medication, and daily support.
36. Describe Alzheimer's disease, and explain nursing interventions, including safety and cognitive support.
37. Discuss nursing strategies for pain management in acute and chronic conditions, including assessment and treatment options.
38. Explain nursing care strategies to support patients' wellbeing in mental health disorders and describe possible challenges for nurses in applying them.
39. Describe types and forms of drugs, including routes of administration and nursing considerations.
40. Describe the steps, safety considerations, and potential complications of intravenous (IV) therapy and other injections (subcutaneous, intramuscular, intradermal).

◆ Midwifery

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18. Discuss pharmacology with reference to drugs: classify at least 3 groups, describe their effects, and compare different routes of administration. Give 2 examples of possible adverse reactions.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe hospital admissions and outpatient care in obstetrics and gynaecology.
22. Describe the role of midwives in monitoring the patient.
23. Describe pregnancy and prenatal care.
24. Describe common pregnancy complications.
25. Describe the stages of labour and the role of a midwife in each stage.
26. Describe common labour complications and C-section.
27. Describe postpartum care.
28. Describe common congenital abnormalities – provide at least 3 examples.
29. Describe common gynaecological conditions – provide at least 3 examples.
30. Describe methods of pain management during labour (pharmacological and non-pharmacological).
31. Describe breastfeeding positions, including their benefits and challenges.
32. Describe neonatal assessment and immediate newborn care.
33. Describe maternal mental health problems (e.g. postpartum depression, anxiety).
34. Describe multiple pregnancy, including risks and management.
35. Describe screening tests and diagnostic procedures during pregnancy.
36. Describe contraception methods and family planning.
37. Describe infertility causes and treatment options.
38. Describe sexually transmitted infections (STIs) and their impact on pregnancy.
39. Describe menopause and hormone replacement therapy.
40. Discuss ethical dilemmas and professional challenges in midwifery practice.

◆ Medical Rescue

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19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe hospital admissions by A&E.
22. Describe triage assessment and triage dilemmas.
23. Describe first aid and key considerations for paramedics in the case of bleeding.
24. Describe first aid and key considerations for paramedics in the case of burns and scalds.
25. Describe at least 3 injuries and traumas – their causes, symptoms, and treatment. Discuss first aid for injuries and traumas.
26. Describe shock – its causes, symptoms, and treatment. Discuss first aid for shock.
27. Describe first aid and key considerations for paramedics in the case of road traffic accidents.
28. Describe stroke – its causes, symptoms, and treatment. Discuss first aid for stroke.
29. Describe heart attack – its causes, symptoms, and treatment. Discuss first aid for heart attack.
30. Describe cardiac arrest and explain the steps of CPR (cardiopulmonary resuscitation) and the use of defibrillators.
31. Describe first aid and key considerations for paramedics in the case of epilepsy.
32. Describe anaphylactic shock – its causes, symptoms, and treatment. Discuss first aid for anaphylaxis.
33. Describe first aid and key considerations for paramedics in the case of choking, in children and adults.
34. Describe first aid and key considerations for paramedics in the case of poisoning.
35. Describe first aid and key considerations for paramedics in the case of hypoglycaemia and hyperglycaemia.
36. Describe first aid and key considerations for paramedics in the case of hypothermia and hyperthermia.
37. Describe the assessment of unconscious patients and Glasgow Coma Scale.
38. Describe the role of paramedics in monitoring the patient and managing measurements.
39. Describe equipment essential for paramedics.
40. Describe safety and risk management for paramedics during emergency response.

◆ Public Health / Healthcare Management

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19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe common neoplastic diseases and palliative care.
22. Describe hospital admissions and outpatient care.
23. Describe the most effective ways of health education and promotion.
24. Describe key concepts of epidemiology.
25. Describe occupational health and safety.
26. Describe environmental health.
27. Describe sleep and sleep deprivation.
28. Describe social determinants of health.
29. Describe the care of a pregnant woman.
30. Describe office and management equipment needed to run a medical centre.
31. Discuss financial aspects of public health.
32. Discuss chronic disease prevention and management.
33. Discuss how to balance ethical principles with business objectives in public health.
34. Discuss how to prepare for the next pandemics.
35. What are the greatest medical inventions and discoveries?
36. What is the role of volunteers in medical care?
37. What should medical education in schools focus on?
38. Explain important points about clinical trials.
39. Imagine you are a manager of a public campaign to reduce alcohol consumption among teenagers. What would be your most important decisions?
40. What are the most pressing public health needs?

◆ Medical Analytics

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18. Describe pharmacology and its meaning in medicine.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. What is the role of medical analytics in medical research?
22. Describe medicinal plants, including their importance in pharmacology and laboratory research.
23. Describe blood components and blood functions.
24. Describe blood diseases – provide at least 3 examples.
25. Describe venipuncture.
26. Describe blood tests and blood testing equipment.
27. Describe clinical laboratory tests other than blood tests, e.g. body fluids, and haematocrit.
28. Describe chemical elements essential for human health and their laboratory assessment.
29. Describe basic laboratory equipment and its applications.
30. Describe lab safety rules.
31. Discuss ethical issues relevant to medical analytics, including patient data confidentiality.
32. Describe the hospital environment – wards, departments, and staff roles.
33. Describe drug classification and provide examples from each group.
34. Describe drug dosage and routes of administration.
35. Describe drug mechanisms of action and possible side effects.
36. Describe the role of vitamins in human health, including deficiency and excess.
37. Describe microbiological tests, including principles and procedures.
38. Describe quality control and assurance in the medical laboratory.
39. Describe the basics of inorganic chemistry relevant to medical analytics.
40. Describe environmental contamination – provide at least 3 examples.

◆ Pharmacy / Drug Discovery and Development

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18. Describe pharmacology and its meaning in medicine.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe community pharmacy and hospital pharmacy.
22. Describe products sold in the pharmacy, including drug storage and shelf life.
23. Describe drug repurposing – discovering new uses for existing drugs. Provide at least 3 examples.
24. Describe dosage regimen and different dosage forms of drugs.
25. Describe different routes of drug administration.
26. Describe contraindications to drug taking – provide at least 3 examples of different drugs.
27. Describe the effects of drugs and adverse reactions to drugs.
28. Describe drug-drug and/or food-drug interactions.
29. Describe common OTC drugs and supplements.
30. Describe medicinal plants, including their importance in pharmacology and laboratory research.
31. Describe clinical trials of new medicines, including safety, ethics, and patient counselling.
32. Describe at least 3 drugs for cardiovascular problems, including uses, side effects, and precautions.
33. Describe at least 3 drugs for neurological problems, including uses, side effects, and precautions.
34. Describe at least 3 psychiatric medications, including uses, side effects, and precautions.
35. Describe at least 3 drugs for respiratory issues, including uses, side effects, and precautions.
36. Describe analgesics, antibiotics, and corticosteroids – uses, side effects, and precautions.
37. Describe lab safety rules and laboratory equipment.
38. Describe ethical issues and patient counselling in pharmacy practice.
39. Describe the patient's safety, adverse event reporting, and quality control in pharmacy practice.
40. Describe the role of pharmacists different than selling drugs (e.g. vaccination programs or patient education).

◆ Cosmetology

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13. Describe the impact of nutrition and lifestyle on the human health.
14. Describe the effects of ageing and common problems of the elderly.
15. Describe common mental health problems.
16. Describe at least 3 common medical procedures or diagnostic examinations.
17. Describe the importance of hygiene in hospitals and medical procedures.
18. Discuss pharmacology with reference to drugs: classify at least 3 groups, describe their effects, and compare different routes of administration. Give 2 examples of possible adverse reactions.
19. Describe the modern hospital and hospital team.
20. Describe challenges of modern medicine or healthcare (e.g. antibiotic resistance, diseases of affluence, mental illnesses).
21. Describe the principles of history taking and skin evaluation in cosmetology.
22. Describe some common skin diseases – provide at least 3 examples.
23. Describe facial treatments and their benefits – provide at least 3 examples.
24. Describe differences between daily and occasional makeup – provide at least 3 examples.
25. Describe the steps of making a manicure – provide at least 5 steps.
26. Describe the influence of a diet on the condition of the skin – provide at least 3 examples.
27. Describe the role of herbs in maintaining good skin condition – provide at least 3 examples.
28. Describe advantages and disadvantages of using herbs for beauty purposes – provide at least 3 examples. How do natural cosmetics differ from synthetic ones?
29. Describe key principles of a good sanitary regime in cosmetology – provide at least 5 examples.
30. Describe key equipment of a modern beauty salon – provide at least 5 examples.
31. Describe key qualities of a good cosmetologist – provide at least 5 examples.
32. Define massage and describe at least 3 types of massage.
33. Provide at least 3 benefits of massage and discuss any massage contraindications.
34. Describe the most common methods of combating cellulite – provide at least 3 examples.
35. Describe advantages and disadvantages of using make-up cosmetics – provide at least 3 examples of each.
36. Explain how skin condition can indicate different health problems – provide at least 3 examples.
37. What are the most common cosmetology challenges of teenage clients? Provide at least 3 examples.
38. What are the most common cosmetology challenges of senior clients? Provide at least 3 examples.
39. How can cosmetology help to slow down the aging process? Provide at least 3 examples.
40. Characterise proper home skin care routine – explain at least 3 steps of such routine.