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|  ASTANA MEDICAL UNIVERSITY | NCJSC “Astana Medical University” | Стр 1 из 8 |
| | Entrance Examination Program | |


ENTRANCE EXAMINATION PROGRAM

For the Educational Program: 6B10104 “Pharmacy” (for applicants holding a higher education degree in “**Pharmaceutical Manufacturing Technology**”)

Duration of Study: 2 years


Mode of Study: Full-time.

Astana 2026.

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1. PURPOSE AND SCOPE

1.1 This Program is intended for applicants seeking admission to the Educational Program 6B10104 “Pharmacy.”

The required prior level of education is higher education in “Pharmaceutical Manufacturing Technology.”

Duration of study: 2 years.

2. NORMATIVE REFERENCES

2.1 This Program is based on the following regulatory document:

Order of the Minister of Education and Science of the Republic of Kazakhstan No. 600 dated October 31, 2018, “On Approval of the Standard Rules for Admission to Educational Organizations Implementing Educational Programs of Higher and Postgraduate Education.”

3. MAIN SECTION

3.1 General Information

Entrance examinations for the accelerated study program are intended to select applicants for admission to an accelerated educational program. These examinations are conducted to assess applicants’ knowledge, skills, and competencies, as well as their preparedness for an intensive and condensed course of study.

The entrance examination test questions are developed taking into account the disciplines previously completed and the applicant’s prior educational background.

3.2 Contact Information

School of Pharmacy, Astana Medical University Office 301, 49A Beibitshilik Street, Astana, Kazakhstan, Tel.: +7 (7172) 53-94-32, E-mail: omari.a@amu.kz

3.3 Venue of the Entrance Examination

Astana Medical University, 51 Beibitshilik Street, Astana, Kazakhstan

3.4 Format of the Entrance Examination

Computer-based testing.

The list of examination questions was approved at Meeting No. 2 of the School of Pharmacy Council dated May 4, 2026.

3.5 Application Schedule and Entrance Examination Dates


The registration and entrance examination schedule for applicants is provided in Table 1.

Table 1.

| Application Period | Entrance Examination Dates | Examination Time | Appeal Submission Deadline | Examination Venue |
|---------------------------|-----------------------------------|--------------------------------|--|---|
| July 1 – August 3 | August 5–14 | 10:00 – 12:00 14:00 – 16:00 | Until 1:00 p.m. on the day following the announcement of results | 51 Beibitshilik Street, 5th Floor, Rooms 501 and 509 |

*The entrance examination schedule (exact date, time, and applicant's full name) will be published on our website in the “Applicants” section under “Accelerated Study Program.”

Applicants are admitted to the examination room upon presentation of a valid identification document. The entrance examination is conducted in classrooms equipped with video and/or audio recording systems.

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List of Required Documents:

- 1) Application addressed to the Rector of the University in the prescribed form (Appendix 1);
- 2) Educational document (diploma and transcript; original and copy);
- 3) Identification document (original and copy);
- 4) Six (6) photographs measuring 3 × 4 cm;
- 5) Medical certificate (Form 075/u) and fluorography image;
- 6) Individuals holding technical and vocational or post-secondary education qualifications, who have confirmed their qualification and have at least one year of work experience in the specialty, shall additionally submit one of the documents provided for in Article 35 of the Labor Code of the Republic of Kazakhstan.

3.6 Appeals Procedure


Appeals against the entrance examination results shall be submitted personally by the applicant to the Chairperson of the Appeals Committee.

Appeal applications are accepted until **1:00 p.m. on the day following the announcement of the entrance examination results** and are reviewed by the Appeals Committee within **one day** (Appendix 2).

3.7 Examination Materials

1. Pharmaceutical Chemistry

- 1) Subject, content, objects, and main tasks of pharmaceutical chemistry.
- 2) State regulation and quality control of medicinal products.
- 3) Quality assurance of medicinal products.
- 4) Chemical classification of medicinal products.
- 5) Selection of methods, general and specific tests, requirements for identification of medicinal products.
- 6) Physicochemical properties of medicinal substances.
- 7) Identification of medicinal products.
- 8) Quantitative determination of medicinal products according to the State Pharmacopoeia of the Republic of Kazakhstan.
- 9) Determination of quantitative content of medicinal products by physicochemical methods.
- 10) Standardization of medicinal products.
- 11) Stability and storage of medicinal products.
- 12) Differences between inorganic and organic medicinal products according to functional groups.
- 13) Quality control of medicinal products (incoming control, in-pharmacy control, organoleptic, physical, chemical express analysis).
- 14) Purity tests based on physical and chemical properties.
- 15) Fundamentals of laboratory techniques for pharmaceutical analysis.
- 16) Titrimetric methods of analysis.
- 17) Medicinal products derived from elements of Periodic System I–VIII.
- 18) General characteristics of organic medicinal substances.
- 19) Aromatic compounds.
- 20) Halogen derivatives of acyclic hydrocarbons.
- 21) Fatty carboxylic acids and their derivatives.

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- 22) Phenols. Aromatic acids and their derivatives.
- 23) Amino acids and their derivatives.
- 24) Alkaloids.
- 25) Vitamins.

2. Pharmacognosy

- 1) Natural resources and reserves of Kazakhstan.
- 2) Raw material base of medicinal plant materials.
- 3) Fundamentals of procurement of medicinal plant materials.
- 4) Pests of medicinal plant materials.
- 5) Medicinal plants as sources of biologically active substances.
- 6) Medicinal plants and raw materials affecting the nervous system.
- 7) Medicinal plants and raw materials used in cardiovascular diseases.
- 8) Medicinal plants and raw materials affecting urination.
- 9) Medicinal plants and raw materials used in digestive diseases.
- 10) Medicinal plants and raw materials affecting the blood system.
- 11) Medicinal raw materials of animal origin.
- 12) Methods for determining reserves of medicinal plant materials.
- 13) Legislative foundations of plant ecology.
- 14) General concepts of plant ecology.
- 15) Collection and primary processing of medicinal plants.
- 16) Drying and storage of medicinal plant materials.
- 17) Methods of analysis of medicinal plants and medicinal plant materials.
- 18) Sampling rules for medicinal plant materials.
- 19) Standardization of medicinal plant materials.
- 20) Diagnostics of roots and rhizomes.
- 21) Medicinal plants containing cardiac glycosides.
- 22) Microscopy of leaves and flowers.
- 23) Medicinal plants containing tannins.
- 24) Medicinal plants containing alkaloids.
- 25) Homeopathic preparations and labeling requirements.

3. Industrial Pharmaceutical Technology

- 1) Excipients in tablets.
- 2) Regulatory documents of pharmaceutical manufacturing. GMP principles.
- 3) Wet granulation of tablets.
- 4) Tableting equipment.
- 5) Quality control of tablets.
- 6) Technological losses and product yield.
- 7) Syrup production.
- 8) Preparation of alcoholic solutions.
- 9) Tinctures and extracts.
- 10) Methods of extraction of medicinal raw materials.
- 11) Ointment production.
- 12) Suppository production.
- 13) Aerosol dosage forms.

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- 14) Propellants in aerosols.
- 15) Production of injectable solutions.
- 16) Sterilization of dosage forms.
- 17) Ampoule production.
- 18) Quality control of ampoules.
- 19) Novogalene preparations.
- 20) Evaporation of extracts.
- 21) Grinding and sieving of powders.
- 22) Pharmaceutical equipment.
- 23) Material balance of production.
- 24) Technological regulation.
- 25) Modern dosage forms.

3.8 Entrance Examination Results

Passing score: 50 points;


Maximum score: 100 points;

Examination duration: 1 hour 40 minutes (1 minute per test question);

Total number of questions: 100;

Each question has one correct answer;

Each correct answer is awarded 1 point.

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Appendix 1

To the Chairperson of the Board – Rector of
NCJSC “Astana Medical University”

From _____
full name

_____ residential address

_____ mobile phone number

_____ Home phone number

E-mail: _____

_____ ID number, date of issue, issuing authority

APPLICATION

I hereby request permission to take the entrance examination in the form of _____ for the educational program _____.

The following documents are attached to this application:

- 1) Educational document (original);
- 2) Six photographs sized 3 × 4 cm;
- 3) Identity document (original and copy);
- 4) Medical certificate in Form 075/u;
- 5) Extract confirming completion of the psychometric examination;
- 6) Employment record book.

I hereby give my consent to the collection, processing, and dissemination of personal information related to the examination results.

Signature/Date _____

