REPUBLIC OF UZBEKISTAN

MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATION FERGANA POLYTECHNIC INSTITUTE

FACULTY OF LIGHT INDUSTRY AND TEXTILE

"Natural fibers" of the department

5321500-"Preparation of raw materials for weaving" for students of the graduate course of light industry technology and equipment (weaving)
From the disciplines "Tissue Structure Design", "Network Technologies".
final state certification questions

1. On what basis is the scheme of textile production technological processes selected?

Key words and phrases: (tissue recipe, mathematical model, technological drawing.)

2. What are the processes of the general technological sequence chain of cotton tissue production?

Key words and phrases: (cotton thread, slatted, lamel, gula.)

3. What technological processes are there for the production of silk fabrics? *Key words and phrases: (silk thread, bobbin, steaming machine.)*

4. What is the purpose of rewinding threads?

Key words and phrases: (defects, twist, knot.)

5. Please provide general information on the process of preparing yarn for weaving?

Key words and phrases: (select, rum, divigatel, imutsya.)

6. How to determine the general technological sequence of cotton tissue production?

Key words and phrases: (canvas, cotton fiber, flowers, batan beam.)

7. Explain the peculiarities of the technological processes of production of silk fabrics?

Key words and phrases: (silk, displacement, ratio, surface density.)

8. How is the thread number determined?

Key words and phrases: (thread texture, density, fabric width.)

9. What factors are used to choose the method of tying cotton, wool and silk threads?

Key words and phrases: (merino, lamel, number of strands, thread composition.)

10. Describe the development of the textile industry in Uzbekistan?

Key words and phrases: (atlas, adras, silk, hand loom, margylan.)

11. How many types of weaving are there in weaving?

Key words and phrases: (furry, non-woven, complex mat, sarja satin, feathery.)

12. What is tissue?

Key words and phrases: (body, yarn, knitting machines, knitting)

13. What are the ways to make hummus?

Key words and phrases: (carriage, jacquard, kulachok, mixed, arcade cords.)

14. What does the production process of thread products depend on?

Key words and phrases: (fiber content, cleaning aggregate, text, twist.)

15. What types of fabrics do Jacquard machines produce?

Key words and phrases: (towel, arc cord, multi-armed.)

16. What does rom capacity depend on?

Key words and phrases: (controller, bobbin holder, body density, spool.)

17. Explain the structure of fibers?

Key words and phrases: (elementary, natural, synthetic.)

18. Mention the types of rewinding machines?

Key words and phrases: (puck, disc, purginal, electronic, pneumatic.)

19. What are the dimensions of weaving and weaving spools?

Key words and phrases: (fabric width, machine width, fabric density)

20. How does uneven length of threads in a group spool affect the amount of waste?

Key words and phrases: (flange spool, density, thread properties)

21. List the ways to reduce waste in the selection process?

Key words and phrases: (chain frame, coil holder, breakers)

22. Causes of thread breakage during the selection process and ways to reduce it?

Basic words and phrases: (tension, uniformity, number of turns)

23. What is the importance of following the alternative selection factors of the selection machine?

Key words and phrases: (speed, lever, bobbin holder)

24. What are the tasks assigned to control cleaning devices?

Key words and phrases: (thread guide, needles, lamellae)

25. What are the tasks assigned to electronic control cleaning devices?

Key words and phrases: (signal light, air spray device, dust.)

26. What are the tasks assigned to the optical electronic control cleaning device?

Key words and phrases: (thread defects, computer control, automatic stop.)

27What is the function of the Uster electronic thread cleaner?

Key words and phrases: (squeezing force, shaped pucks, hook.,)

28. Explain the importance of threading process?

Key words and phrases: (connecting machine, lamel, gula)

29. Can you describe the methods of weaving knots?

Key words and phrases: (fixed, needle, scale)

30. Can you describe the importance of knotless threading?

Key words and phrases: (pocket, clamps, connecting carriage.)

31. Can you describe the importance of connecting the ends of the thread pneumatically?

Key words and phrases: (saplo, compressor, technical threads.)

32. What are the requirements for the restaurant?

Key words and phrases: (recipe of ohor, fiber content of yarn, time of ohor.)

33. What is the reason for absorption of sugar in the sugaring process?

Key words and phrases: (amount of thread, thread diameter, thread number.)

34. How do the physical and mechanical properties of yarn change during the process of calendering?

Key words and phrases: (mechanical, tension, friction.)

35. List the adhesive used for plastering?

Key words and phrases: (potato starch, water, special container.)

36. What is the difference between starch PYS and KMS preparation?

Key words and phrases: (quantity, composition, time of fermentation.)

37. Substances included in the composition of ohor and their function?

Key words and phrases: (filament, film, natural polymer.)

38. What do you mean by the viscosity of the oil and how is it determined?

Key words and phrases: (synthetic polymer, wheat, industrial waste.)

39. How is the concentration of the ash calculated and list the methods of its determination?

Key words and phrases: (acoustic, ohor concentration, compression ratio.)

40. What do you understand by the amount of weight loss?

Key words and phrases: (viscose, cotton, thermomechanical.)

41. How is the amount of surface and actual sintering calculated for different raw yarns?

Key words and phrases: (canteen, 100%, storage temperature.)

42. What factors affect the amount of aging?

Key words and phrases: (surface finish, yarn type, dense.,)

43. How does stretching in the calendering process affect the physical and mechanical properties of yarn?

Key words and phrases: (stretching, friction, drying zone.)

44. What are the requirements for the repackaging process?

Key words and phrases: (threads, defects, virginity,)

45. What is the purpose of the rewinding process?

Key words and phrases: (blade, connector, waste.)

46. List the basic guiding devices of rewinding machine?

Key words and phrases: (tube, screw, guide)

47. What is the function of a balloon extinguisher and how does it affect voltage?

Key words and phrases: (knot, hairiness, twist, clamp, tracer)

48. List the types of cylinder extinguishers and what kind of cylinder extinguishers are installed in modern rewinders?

Key words and phrases: (cylinder, cleaner, string in a tube)

49. Enumerate the types of tension devices. What is the tension in the rod tension device?

Key words and phrases: (automatic, tube band, warning device)

50. What types of tensioning devices are installed in rewinding machines?

Key words and phrases: (lever, balloon extinguisher)

51. How does a pneumatic tensioner work?

Key words and phrases: (saplo, tension, sensor)

52. Explain the working principle, advantages and disadvantages of mechanical control cleaning device?

Key words s and phrases: (thread connector, for purses, hot)

53. What indicators can be installed and monitored on the "Uster" controlcleaner during the repacking process?

Key words and phrases: (vodka and tan threads, kalava urchug, tube setter)

54. In what cases does the operation of capacitive control-cleaning devices cause a decrease in the productivity of the loom?

(stopping hook, kalava, diverter)

55. What indicators do you know that determine the placement of a 1pm roll? *Key words and phrases: (thread, parallel, line pitch)*

56. What is the difference between contiguous and non-contiguous windings in a bobbin?

Key words and phrases: (parallel, tex, winding diametric)

57. How is the winding density in a coil determined?

Key words and phrases: (thread number, thread count, rotation speed)

58. How does the density change over the surface of a conical coil?

Key words and phrases: (drum, flange, reel width)

59. What do you mean by parallel winding? What are its advantages and disadvantages?

Key words and phrases: (parallel caret, parallel)

60. Tell me about ways to increase the winding density in a coil?

Key words and phrases: (thread number, winding type, tissue density)

61. How to join the ends of a broken thread without a knot?

Key words and phrases: (connection, hair connection, knot connection.)

62. What are the special features of precision rewinding machines?

Key words and phrases: (automatic, voltage regulator, cylinder extinguisher)

63. What technological indicators are controlled in rewinding machines?

Key words and phrases: (Stop hook, Wrap, physical property)

64. List the main areas for improvement of the repacking process?

Key words and phrases: (high speed, roll diameter, divigatel)

65. What are the requirements for the selection process?

Basic words and phrases: (body reel, frame, plane)

66. In what cases are the methods of grouping and nesting used?

Basic words and phrases: (silk, wool, chemical fiber, conical drum)

67. What is the difference between continuous and continuous rolling frames?

Basic words and phrases: (turning frame, steering wheel, guide)

68. Explain the procedure for threading the Tanda frame?

Basic words and phrases: (coil capacity, V-shaped frame, flange diameter)

69. What are the advantages of group selection?

Basic words and phrases: (cotton, ohar, bobbins)

70. Why is the speed of the group sorting machine faster than that of the folding sorting machine? high?

Basic words and phrases: (rim, bars, conical)

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"Design of tissue structure" from science

1. Explain the structure of thin reps covers in fabric?

Key words and phrases: weft, reps, cover

2. When preparing the fabric for weaving, picking production bunches, their number is determined based on what?

Key words and phrases: typing joys

3. What is the basis for choosing the number of stitches when weaving a fabric?

Key words and phrases: (shoda, tissue)

4. Which chemical and synthetic fibers are added to woolen and semi-woolen fabrics?

Key words and phrases: semi-wool fabrics and synthetic fibers

5. What is the difference between warp and tan covering in weaving?

Key words and phrases: rope, fabric

6. Explain the types of weaving with warp and weft threads of different planes?

Key words and phrases: arkok, tissue mechanism

7. Elucidate the advantages of multi-threaded looms?

Key words and phrases: shuttle, dastgoh

8. Write information about the division of mechanisms for opening a multi-rotor table into groups?

Key words and phrases: shuttle, platform mechanism

9. Which fabrics are widely used worldwide?

Key words and phrases: cotton, fiber

10. How is the number of threads in the ratio of the fabric determined by the body and by the warp?

Key words and phrases: tissue report

11. What is the basis for the acceleration of the shuttle when weaving the fabric?

Key words and phrases: shuttle acceleration

12. How is the mechanism for throwing a loom without a shuttle moved?

Key words and phrases: shuttle, acceleration force

13. What methods are used to remove the complex tissues?

(rope, fabric)

14. Name the types and groups of weaving in weaving?

Key words and phrases: shuttle, acceleration

15. What are the main features of the most commonly used weave in weaving?

Key words and phrases: mowing the canvas

16. What is the difference between simple moving and complex moving?

Key words and phrases: sarja, satin

17. How to change the density of the fabric in terms of warp and weft?

Key words and phrases: texture, body, threads, density

18. Significance of warning signals on fabric and skin?

Key words and phrases: arqoq, tahda

19. Tell the role and importance of khumza in weaving fabric?

Key words and phrases: khumza, tissue

20. How to identify finished fabric defects and its importance?

Key words and phrases: defect, tissue

21. What program is used to create the texture and its importance?

Key words and phrases: program, tissue

22. Which warp fabrics are recommended for knitting on jacquard machines?

Key words and phrases: jacquard, cars

23. At what points are the threads in the fabric re-threaded?

Key words and phrases: fabric, tanda, threads

24. Give the main mechanisms of the machine for tying broken threads in the fabric and their function?

Key words and phrases: tissue, body, threads, mechanism

25. What kind of defects are caused by the wrong wrapping of the fabric winding reel?

Key words and phrases: tissue, body, reel

26. What role does the lamerni waifa play in weaving?

Key words and phrases: tissue, body, needle

27. What is your understanding of the full enthronement picture?

Key words and phrases: tissue, painting of the throne

28. Explain the change in surface appearance of manufactured tissues?

Key words and phrases: overview

29. What is the concept of assortment in weaving?

Key words and phrases: assortment, series, fabric

30. In what cases can the production of taffeta or thin cotton fabric be launched?

Key words and phrases: arqoq, sarja, tissue

31. In which machines, describe the determination of the speed and number of shuttles?

Key words and phrases: shuttle, platform mechanism

32. Explain how to determine the number of threads in the ratio of the fabric by the warp and weft method?

Key words and phrases: sarjatanda and arqoq

33. What methods of knitting do you know?

Key words and phrases: knitted fabric

34. Directions for development of their assortment in the production of wool gauzes in textiles ?

Key words and phrases: wool assortment

35. Tell the main properties of tissues produced by simple shearing?

Key words and phrases: cloth, property

36. Which simple harvest can produce 2 or 4 sheaves?

Key words and phrases: canvas is in the air

37. In the construction of which weaving, the number of threads on the body and warp is equal to 1?

Key words and phrases: canvas, report

38. Classification of textile fabrics based on different indicators?

Key words and phrases: classification of principles

39. Satin cutting, its main indicators and conditions of preparation?

Key words and phrases: atlas, mowing

40. Weaving in weaving, its main indicators and conditions of construction?

Key words and phrases: terms of composition

41. What are the main indicators and conditions of the program for the selection of cotton cutting?

Key words and phrases: terms of canvas composition

42. How and on what basis is the embroidering program made in large pattern fabrics?

Key words and phrases: large patterned fabrics

43. Textile fabrics are classified according to their characteristics?

Key words and phrases: gasification feature

44. Determining the structure of weaving complex fabrics in textiles.?

Key words and phrases: complex textures

45. What are the types and types of pure cotton gauzes and what are they produced for?

Key words and phrases: assortment of cotton gauze

46. Which of the following are the differences between crop harvests and mixed harvests?

Key words and phrases: compound, derived phrases

47. What are the general characteristics of the mowing?

Key words and phrases: satin, satin cuts

48. Which types of tissue are called raw tissue?

Key words and phrases: tissue, raw tissue

49. What are the parameters of ordinary fabric serge cutting and satin cutting?

Key words and phrases: polotno, sarja

50. Explain the conditions for establishing a general meeting?

Key words and phrases: the conditions for creating sentences

51. The role and perspective of textile enterprises in Uzbekistan?

Key words and phrases: textile industry

52. How many types of weaving are divided into?

Key words and phrases: type of mowing

53. Explain the elements of complete weaving of the fabric?

Key words and phrases: complete typing

54. Explain the important properties of crepes?

Key words and phrases: adjectives, properties

55. Explain the report of tissue cutting on body and argoq?

Key words and phrases: tanda, arqoq, rapport

56. Assortment of non-woven fabrics?

Key words and phrases: fabric assortment

57. Classification of production methods of non-woven fabrics and products?

Key words and phrases: fabric assortment

58. What is tissue shearing?

Key words and phrases: tissue, asartimen

59. Classification of tissue cutting into classes?

Key words and phrases: tissue, assortment **60. Indicators affecting tissue structure?**

Key words and phrases: tissue structure, fabric assortment

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From "Network technologies"

1. Elucidate the function of the bobbin winder mechanism in the Dornier loom?

Key words and phrases: (rope, tissue, compaction mechanism, batan)

2. What is the principle of the special batan mechanism for knitting ring fabrics?

Key words and phrases: (rope, tissue, compaction mechanism, batan)

3. Explain the process of weaving and wrapping?

Key words and phrases: (weave, loom, traction, winding, goods shaft)

4. What is the function of tissue adjusters?

Key words and phrases: (weave, loom, tension, adjuster)

5. Name the loom mechanisms involved in the location of the weft thread in the fabric?

Key words and phrases: (weave, thread, adhesion, shearing)

6. What are the types of fabric adjusters chosen based on ?

Key words and phrases: (weave, loom, tension, adjuster)

7. How do negative tissue adjusters work?

Key words and phrases: (weave, loom, tension, adjuster)

8. List the types of defects that occur due to the failure of fabric adjusters?

Key words and phrases: (texture, loom, tension, adjuster, defect)

9. Tell the principle of operation of electronic fabric adjuster of Somet loom.

Key words and phrases: (weave, loom, tension, adjuster)

10. On what principle does the electronic tissue adjuster work?

Key words and phrases: (weave, loom, tension, adjuster)

11. What are the duties of the goods manager?

Key words and phrases: (texture, rolling, wrapping, speed, tension)

12. Name the types of motion transmission to the textile winding shaft?

Key words and phrases: (tissue, stock, mobility, defect)

13. Explain the process of casting by pneumatic and hydraulic methods?

Key words and phrases: (weft, homuza, shuttle, pneumatic, hydraulic)

14. What are the brands of foreign pneumatic and hydraulic looms?

Key words and phrases: (weft, homuza, shuttle, pneumatic, hydraulic)

15. What mechanisms of the loom can be used to change the density of the warp thread?

Key words and phrases: (thickness, density, speed, tension, sinking)

16. Describe STB-4-180-KN18-01, STB-4-220PU machines?

Key words and phrases: (tool, fabric, batan mechanism, fabric width, rope casting method)

17. Explain the working principle of air (pneumatic) looms.

Key words and phrases: (rope rope, homuza, pneumatic, machine)

18. What fabrics are woven on rapier looms?

Key words and phrases: (rapira, tissue, tooth, machine)

19. What important information is given in the classification of Zulser (Switzerland) shuttleless looms?

Key words and phrases: (rope, shuttlecock, weaving, loom, homuza)

20. Name the range of fabrics woven on multi-arm looms?

Key words and phrases: (rope, homuza, weaving, loom)

21. What is the peculiarity of the cloud tissue production technology?

Key words: (cloud gas, technology, equipment, finishing, knitting)

22. What are the important aspects of wool tissue production technique and technology?

Key words: (wool gassing, technology, equipment, finishing, knitting)

23. Explain the technique and technology of hair tissue production?

Key words: (wool fabric, carpet, velour, velvet, technology, equipment, finishing, knitting)

24. Tell the scale of production and consumption of openwork fabrics?

Key words: (open work fabric, guipure, mesh, technology, equipment, finishing, knitting)

25. Ring tissue production technology.

Key words: (folk gauze, towel, technology, equipment, finishing, knitting)

26. Carpet production technology.

Key words: (carpet, pile fabric, technology, equipment, finishing, knitting, jacquard)

27. How is the transmission and tensioning of tanda threads controlled?

Key words and phrases: (tensifier, strain gauge, tension)

28. Give information about transmission and tension mechanisms in the body.

Basic phrases: (tensifier, strain gauge, tension)

29. What is the principle of warp transmission in tanda adjusters?

Basic phrases: (tensifier, strain gauge, tension)

30. How is controlled in warp brakes?

Basic phrases: (tuner, strain gauge, traction, brake)

31. Explain the relationship between the radius of the weaving bobbin and the thread tension.

Basic phrases: (weave, weight, diameter, weaving bobbin, tension)

32. What types of brakes are there?

Basic phrases: (brake, body, automatic, mechanical, electronic, sensor)

33. What are the reasons for changing the tension of the thread in the body?

Key words: (body, tension, control, speed, mechanism)

34. Explain the tissue defects that result from the failure of the threading and transmission mechanisms of the body?

Basic phrases: (body, tissue, defect, machine, fault)

35. Explain the importance of continuously supplying the loom with a variety of warp threads?

Basic phrases: (tool, rope, homuza, tube, rewinding, bobbin)

36. What are the mechanisms that control the loom?

Basic phrases: (tissue, thread, body, shearing, control, measurement)

37. Name the types of warp controllers?

Basic phrases: (tanda, control, thread count, interrupt, signal)

38. Analyze the differences between mechanical and electric rope controllers?

Basic phrases: (fault, break, defect, mechanical, electronic)

39. Drive and brake of the loom explain the function of?

Basic phrases: (weaving, loom, handling, engine, brake)

40. What are the ways to move the machine's crankshaft?

Basic phrases: (tool, movement, engine, forward movement)

41. Explain that it does not operate modern looms?

Basic phrases: (machine, movement, engine, forward movement)

42. Elucidate the factors of machine tool speed change by computer?

Basic phrases: (program, machine, speed, weave, shear, ratio)

43. The quality of the tissue and how it is controlled?

Basic phrases: (tissue, standard, raw tissue, control, machine)

44. Explain the causes of tissue defects?

Basic phrases: (failure, defect, tissue, standard, prevention)

45. Explain the types and causes of tissue defects?

Basic phrases: (texture, standard, comparison, benchmark, defect)

46. What is the importance of tissue quality control?

Basic phrases: (texture, standard, comparison, benchmark, defect)

47. Elucidate the factors of raw tissue quality inspection and evaluation?

Basic phrases: (texture, standard, comparison, benchmark, defect)

48. Evaluation of tissue defects by points?

Basic phrases: (texture, standard, comparison, benchmark, defect)

49. Explain the functions of sorting, cleaning and measuring machines?

Basic phrases: (texture, sorting, cleaning, size, length, trim)

50. How the modern sorting, cleaning and measuring process is carried out?

Basic phrases: (texture, sorting, cleaning, size, length, trim)

51. Explain the five main processes of tissue formation with a schematic illustration?

Basic phrases: (picking, weaving, sorting, finishing, process)

52.Define tissue?

Basic phrases: (weave, fiber, warp, horizontal, vertical, yarn direction)

53. Tell the sources of the history of weaving?

Basic phrases: (textile, branch, shearing, clothing)

54. The history of the first looms?

Basic phrases: (Europe, weaving, loom, handicraft)

55.Development of textile industry in Uzbekistan?

Key words: (textile products, raw material processing, population needs)

56. Types of looms?

Basic phrases: (textile, automatic, pneumatic, hydraulic, shuttle)

58. What kind of machine tools are used for casting ropes?

Basic phrases: (moki, tube, micromoki, homuza)

59. Analyze the disadvantages of the mokili rope throwing method?

Basic phrases: (texture, density, thinness, defect)

60. Analyze warp and loom speeds as a function of fabric width?

Basic phrases: (machine speed, fabric, rope, movement)

61. Explain the advantages and disadvantages of the dwarf slingshot method?

Basic phrases: (rope, tissue, performance, loom, flaw)

62. What needs to be done to develop dwarf handlooms?

Basic phrases: (improvement, weaving, loom, perspective)

63. What kind of machines is used to throw a rope with a rapier to a homuza?

Basic phrases: (homuz, rapier, argoq)

64. Explain the advantages and disadvantages of rapier throwing?

Basic phrases: (homuz, rapier, rope, defect, break)

65. In what machines are pneumatic rope throwing systems used?

Basic phrases: (railroad, pneumatic, systems)

66. What are the characteristics of the hydraulic casting method?

Basic phrases: (water drops, streak, tan, blemish)

67. What is the process of inspecting and evaluating raw tissue quality?

Basic phrases: (texture, standard, comparison, benchmark, defect)

68. Evaluation of tissue defects by points is done according to spots in the boil?

Basic phrases: (texture, standard, comparison, benchmark, defect)

69. Sorting, cleaning and measuring machines work on the principle?

Basic phrases: (texture, sorting, cleaning, size, length, trim)

70. What kind of innovation does the modern sorting, cleaning and measuring process rely on?

Basic phrases: (texture, sorting, cleaning, size, length, trim)

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Additional literature

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