## Крок1 (2011-2021)

## СПЕЦІАЛЬНІСТЬ 226 «ФАРМАЦІЯ, ПРОМИСЛОВА ФАРМАЦІЯ» ДЛЯ ПІДГОТОВКИ ФАХІВЦІВ ДРУГОГО (МАГІСТЕРСЬКОГО) РІВНЯ ВИЩОЇ ОСВІТИЬЗ ДИСЦИПЛІНИ «МІКРОБІОЛОГІЯ З ОСНОВАМИ ІМУНОЛОГІЇ»

## I семестр

1.Different structures of a bacterial cell perform different functions. What dispensable component
of a cell ensures its survival within hostile environment?
*Spores

Flagella

Capsule

Cilia

Inclusions \

2. Microbe survival within environment is facilitated by spore formation. What microorganisms of those listed below are spore formers:

\*Clostridia

**Bacteroides** 

Staphylococci

Peptococci

Peptostreptococci

3. What drug should be administered for individual prevention of malaria?

\*Chingamin

Rifampicin

Ampicillin

Gentamicin

Biseptol (Co-Trimoxazole)

4.Bacterial culture obtained from patient DOES NOT grow when exposed to oxygen. Conditions suitable for bacterial culture growth can be created in:

\*Anaerobic culture jar

Serum-supplemented medium

Pasteuroven

Krotov apparatus

Oxidative medium

5.In the course of long-term treatment of an infectious patient with penicillin, the pathogen transformed into the L-form. What change soccur the pathogen cellin case of L-transformation?

\*Absenceof a cellwall

Absenceofflagella

Absenceof a capsule

Absenceof a spore

Absenceofinclusions

6.Employees of an enterprise were vaccinated with "Influvac" for specific prevention of influenza. What type of immunity will developinthose vaccinated?

\*Artificialactive

Innatecongenital

Artificialpassive

Naturalactive

Naturalpassive

7. Pharmacy has received viricides. Choose the viricide for influenza treatment from the list given

below: \*Rimantadine Metisazone

Levamisole Azidothimidine

Acyclovir

8.A pharmaceutical enterprise offers wide range of antimicrobial agents. Select the broad spectrum antimicrobial agent:

\*Tetracycline

Rimantadine

Nystatin

Griseofulvin

Phthalazolum

9. Aurococcus culture was obtained from the nasal cavity of a child suffering from chronicton sillitis. Causative agent's sensitivity towards a number of antibiotics was tested to choose the optimal drug. What drug WAS NOT included in antibiotic susceptibility testing?

\*Nystatin

Ampicillin

Tetracycline

Levomycetin (Chloramphenicol)

Erythromycin

10. Interferons are natural antiviral and antitumor agents. What is their mechanism of action?

\* Protein

Protein synthesisin crease

Replication activation

Transcription activation

Repair activation

11.Sedimentation analysis has been applied for assessment of air purity in anaseptic unit of a phamacy. The test resulted n growth of thes mall colonies with are as of hemolysis. What medium was used for inoculation?

\* Blood agar

Levine's agar (Eosin Methylene Blue agar)

Endo agar

Ploskirev's agar

Egg-yolksal tagar

12.A dry-heat box is used for sterilization of various material sand instruments in a bacteriological laboratory. This sterilization method can be applied to the following objects:

\* Glass test tubes

Rubber gloves

Simple nutrient medium

Wire inoculating loops

Physiological solution

13. What enzyme allows for synthesis of various genes from template-RNA to DNA in genetic engineering (this enzyme catalyzes the process discovered in RNA-viruses)?

\*Reverse transcriptase

Exonuclease

DNA-ligase

Helicase

## Endonuclease

14.A factory producing typhoid fever vaccine cultivates bacteria of virulent strainin optimal nutrient medium. Then the cell sare separated from culture fluid by means of centrifugation and processed with formalin. What type of vaccine is it?

\*Inactivated

Attenuated

Chemical

Anatoxin

Autovaccine

15.During influenza epidemic a patient with severecase of disease developed hacking cough and chest pain; signs of focal pneumonia were visibleon X-ray. Microscopy of sputum detected lar genum beer of pneumococci. What type of

infectionis it?

\* Secondary

Superinfection

Abortive

Relapse

Reinfection

17.A sample of water used in drug production has been sent to a laboratory for sanitary and virological analysis. Presence of what virus group will be indicative of faecal contamination of water and, thus, the need for its additional purification?

\* Picornaviridae

Herpesviridae

Orthomyxoviridae

Retroviridae

Flaviviridae

18. After examination, newborn was diagnosed with congenital rubella syndrome. Name the route of disease trans in this case:

\* Vertical

Fecal-oral

Parenteral

Vector-borne

Airborne droplet

19.In a child-rearing facility there was an outbreak of measles. What specific urgent prophylaxis should be administered to contact UNVACCINATED children?

\* Gamma globulin against measles

Measles virus vaccine live

DPT vaccine

Medical screening of the children

Isolation and treatment of infected children

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exonuclease

**DNA-ligase** 

Helicase

endonuclease

21. A drug solution sterilized by means of boiling was tested for sterili ty. Inoculation on Kitt-	
Tarozzi medium revealed clostridia. Clostridia survived the boiling because they	
Are:	
*Spore-formers	
Thermophilic	
Prototrophic	
Acid-fast	

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23. The following microorganisms have been detected in the hand lavage of a kindergarten cook: colibacilli, ray fungi,

staphylococci, bacilli, mold fungi. What microbes indicate a fecal contamination of the hands?

\* Colibacilli

Ray fungi

Mold fungi

Bacilli

Staphylococci