

14/08/2025  
14/08/2025



38. Which of the following is intracellular killing by oxygen- dependent activity?
- A. Basic proteins in lysosomes
  - B. Lactoferrin
  - C. Low pH
  - D. Lysozyme
  - E. Toxic nitrogen oxide
39. Movement of macrophage in response to a chemical stimulus is called which of the following?
- A. Attachment
  - B. Chemotaxis
  - C. Diapedesis
  - D. Marginalization
  - E. Opsonization
40. Which of the following correctly describes the fungal cell wall?
- A. Made of peptidoglycan like in bacteria
  - B. Composed mainly of cellulose and lignin
  - C. Contains chitin, glucans and mannans
  - D. Lacks any carbohydrate components
  - E. Present only in fungal spores, not in vegetative cells
41. Which of the following correctly describes yeasts?
- A. Multicellular fungi that reproduce by sporulation only
  - B. Round to oval in shape, reproducing by budding or fission
  - C. Bacteria-like organisms with no true nucleus
  - D. Fungi that form hyphae as their primary structure
  - E. All yeasts are non-pathogenic and environmental only
42. The toxicity of gram negative bacteria endotoxin is due to the presence of which of the following?
- A. Peptidoglycan
  - B. Periplasmic space
  - C. Polysaccharide
  - D. Teichoic acid
  - E. Lipid A of Lipopolysaccharide
43. What is the main function of the capsule in bacteria?
- A. Facilitating motility
  - B. Protection against osmotic pressure
  - C. Antiphagocytic
  - D. Biosynthesis of peptidoglycan
  - E. Facilitating excretion of toxins
44. Which of the following bacteria is spore forming?
- A. E. coli
  - B. Clostridium
  - C. Streptococcus
  - D. Leptospira
  - E. Staph aureus
45. Bacteria are more sensitive to antibiotics at which phase of growth curve?
- A. Decline phase
  - B. Lag phase
  - C. Log phase
  - D. Stationary phase
  - E. y phase

END OF THE EXAM ..... Best Wishes

Semester 2, Midterm PPMV Rest Exam

14/8/2025

Principles of Pathology  
Semester 2, Midterm PPMV  
16. The half-life of  
Which of the  
A. 24 hours  
B. 60 hours  
C. 120 hours

8. Vulvovaginitis is a feature of which of the following?
- A. Listeria acute suppurative inflammation
  - B. Chronic inflammation
  - C. Acute non suppurative inflammation
  - D. Diffuse acute suppurative inflammation
  - E. Epithelial necrosis
9. Completion of wound healing due to excess granulation tissue include which of the following?
- A. Ulcer
  - B. Frost burn
  - C. Scar
  - D. Wound scar
  - E. Frostbite
10. What is the primary function of folic acid in Gram-positive bacteria?
- A. Motility
  - B. Protection against osmotic pressure
  - C. Antigenic character
  - D. Adhesion
  - E. Biosynthesis of lipopolysaccharide
11. Which of the following cell organelle from lymphoid lineage of hematopoietic stem cell?
- A. Macrophage
  - B. Neutrophil
  - C. Eosinophil
  - D. Natural killer cell
  - E. Mast cell
12. Which of the following trematodes is not hermaphrodite?
- A. Schistosoma
  - B. Fasciola hepatica
  - C. Heterophya heterophysi
  - D. Paragonimus westermanii
  - E. Fasciola gigantica
13. At which relationship does one organism benefit and the other (host) suffers?
- A. Symbiosis
  - B. Parasitism
  - C. Commensalism
  - D. Mutualism
  - E. Placental
14. Which of the following synanthropic animal has agonistic action on all alpha & beta receptors?
- A. Adrenaline
  - B. Isoprenaline
  - C. Norepinephrine
  - D. Dopamine
  - E. Ephedrine
15. The interaction between gastrin and carboxylate in vitro is known as which of the following?
- A. Chemical antagonism
  - B. Inverse antagonism
  - C. Physiological antagonism
  - D. Biological antagonism
  - E. Dynamic antagonism

Semester 2, Midterm PPMV Rest Exam

14/8/2025

Principles of Pathology Micro

Semester 2, Midterm PPMV

16. The half-life of  
Which of the  
A. 24 hours  
B. 60 hours  
C. 120 hours

8. Vulvovaginitis is a feature of which of the following?

- A. Listeria monocytogenes
- B. Clostridium difficile
- C. Acute non-suppurative inflammation
- D. Diffuse acute suppurative inflammation
- E. Epithelial necrosis

9. Completion of wound healing due to excess granulation tissue include which of the following?

- A. Ulcer
- B. Frost burn
- C. Scar
- D. Wound scar
- E. Frostbite

10. What is the primary function of valproic acid in Gram-positive bacteria?

- A. Maltose
- B. Protection against osmotic pressure
- C. Antigenic character
- D. Vitamins
- E. Biosynthesis of lipopolysaccharide

11. Which of the following cell organelle from lymphoid lineage of hematopoietic stem cell?

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- B. Isoprenaline
- C. Norepinephrine
- D. Dopamine
- E. Histamine

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- B. Inverse antagonism
- C. Physiological antagonism
- D. Biological antagonism
- E. Dynamic antagonism



Principles of pathology, microbiology, parasitology and phlebotomy  
Mid-term Rest Exam (MCQ Exam)  
14/08/2025 (20 Questions/ 3 pages) Time allowed: 30 minutes

Select ONE Best Answer. Fill the Circle in the Answer Sheet

1. Which of the following types of biopsy is used for tissue from superficial lesions?  
A: Core.  
B: Punch.  
C: Excision.  
D: Incision.  
E: Frozen sections
2. Which of the following is reversible cell injury?  
A: Metaplasia  
B: Atrophy  
C: Fat Necrosis  
D: Cloudy swelling  
E: Adaptation
3. Which tissue is the most susceptible to liquefactive necrosis following ischemic injury?  
A: Pancreas  
B: Liver  
C: Spleen  
D: Brain  
E: Heart
4. Which of the following is an anti-apoptotic protein?  
A: Bax  
B: Bak  
C: Caspase-9  
D: Bcl-2  
E: p53
5. Concerning Iry amyloidosis, it is caused by which of the following?  
A: Schistosomiasis  
B: Tuberculosis  
C: Ulcerative colitis  
D: Multiple myeloma  
E: Bronchial asthma
6. Which of the following is an example of pseudomembranous inflammation?  
A: Acute appendicitis  
B: Diphtheria  
C: Rhinitis  
D: Burns  
E: Abscess
7. Which of the following is a noninfectious granuloma?  
A: Tuberculosis  
B: Bilharziasis  
C: Foreign body granuloma  
D: Actinomycosis  
E: Syphilis

34. A 60-year old female patient complains of muscle weakness. She denies any current or past medical conditions. The nurse notices that the patient has difficulty swallowing. Which of the following is the most likely cause of her symptoms?
- A. Stimulates acetylcholinesterase
  - B. Blocks action of acetylcholine
  - C. It interferes with the action of acetylcholinesterase
  - D. It interferes with the action of nerve impulse conduction
  - E. Decreases acetylcholine at motor end plate
35. Which Atropine substitute could be used for treatment of bradycardia?
- A. Ipratropium
  - B. Tropicamide
  - C. Pilocarpine
  - D. Hyoscine butyl bromide
  - E. Darifenacin
36. What is the volume of distribution (V<sub>d</sub>) of a drug when the concentration in the plasma is 2 mg/L and the total amount of drug in the body is 42 mg?
- A: 2.1 L
  - B: 4.2 L
  - C: 42 L
  - D: 21 L
  - E: 36 L
37. A drug that binds to a receptor and produces a biological response that mimics the response to the endogenous ligand is known as which of the following?
- A. Agonist
  - B. Antagonist
  - C. Functional antagonist
  - D. Partial agonist
  - E. Partial antagonist
38. Drug A in a dose of 5 mg produces the same decrease in blood pressure as 20 mg of drug B. Which of the following statements best describes these results?
- A. Drug A is more efficacious than drug B
  - B. Drug B is about 100 times more potent than drug A
  - C. Toxicity of drug A is less than that of drug B
  - D. Drug A has a weaker therapeutic window than drug B
  - E. Drug A is about 100 times more potent than drug B
39. If two drugs with the same effect, taken together, produce an effect that is equal in magnitude to the sum of the effects of the drugs given individually, what is their effect?
- A. Antagonism
  - B. Potentiation
  - C. Synergism
  - D. Additive effect
  - E. Superadditivity
40. Superinfections are more common with which of the following?
- A. Use of narrow spectrum antibiotics
  - B. Short courses of antibiotics
  - C. Use of antimetabolite antibiotics
  - D. Use of broad spectrum antibiotics
  - E. Use of antibiotics that are completely absorbed from the small intestine

8. Which one of the following procedures can be used to assess the presence of intracellular fat in fatty change liver?
- A. Osmitic acid stain on formalin fixed specimen.
  - B. Hx & E on frozen section.
  - C. Oil red O on formalin fixed specimen.
  - D. Sudan III on a frozen section.
  - E. Congo red on a frozen section.
9. Which of the following is nuclear fragmentation in irreversible cell injury?
- A. Corpora amyliacia
  - B. Fatty change
  - C. Apoptosis
  - D. Karyorrhexis
  - E. Pyknosis
10. Which gene is termed the guardian of genome?
- A. PDGF
  - B. BRCA-1
  - C. APC
  - D. p53
  - E. Bcl2
11. Metastatic calcification may occur in which of the following?
- A. Chronic abscess
  - B. Primary hyperparathyroidism.
  - C. Fat necrosis.
  - D. Atheromatous plaque.
  - E. Valve fibrosis.
12. What is the composition of granuloma?
- A. Cholesterol clefts and lymphocytes.
  - B. Collagen and fibroblasts.
  - C. Endothelial cells epithelioid cells and edema.
  - D. Epithelioid cells, lymphocytes and fibrocytes.
  - E. Endothelial cells, neutrophils and fibroblasts.
13. What is the first step in the pathogenesis of granuloma?
- A. Fibrosis
  - B. Release of chemical mediators
  - C. Formation of giant cells.
  - D. Antigen presentation
  - E. Secretion of anti-bodies.
14. Which of the following is a complication of excessive granulation tissue formation?
- A. Weak scar.
  - B. Wound dehiscence.
  - C. Ulcer.
  - D. Sinus
  - E. Proud flesh.
15. Aflatoxin B<sub>1</sub>, a product of *Aspergillus flavus*, is associated with an increased risk of which of the following tumors?
- A. Lung carcinoma
  - B. Hepatocellular carcinoma
  - C. Lymphoma
  - D. Leukemia
  - E. Cervical carcinoma

live in the intestine  
1/4/08/2025

Semester 2, Final PPM Exam

14/08/2025

24. A 50-year-old female patient complains of muscle weakness. Her doctor has reversed the muscle weakness on administration of neostigmine because of which of the following?

- A. Stimulates acetylcholine esterase
- B. Blocks action of acetylcholine
- C. It interferes with the action of mono amine oxidase
- D. It interferes with the action of motor end plate
- E. Decreases acetylcholine at motor end plate

25. Which Atropine substitute could be used for treatment of bronchial asthma?

- A. Ipratropium
- B. Tropicamide
- C. Pilocarpine
- D. Hyoscine butyl bromide
- E. Dantrolen

26. What is the volume of distribution (Vd) of a drug whose conc. in the plasma is 2 mg/L and the total amount of drug in the body is 42 mg?

- A: 21 L
- B: 42 L
- C: 42 L
- D: 21 L
- E: 36 L

27. A drug that binds to a receptor and produces a biological response that mimics the response to the endogenous ligand is known as which of the following?

- A. Agonist
- B. Antagonist
- C. Functional antagonist
- D. Partial agonist
- E. Partial antagonist

28. Drug A in a dose of 5 mg produces the same decrease in blood pressure as 500 mg of drug B. Which of the following statements best describes these results?

- A. Drug A is more efficacious than drug B
- B. Drug B is about 100 times more potent than drug A
- C. Toxicity of drug A is less than that of drug B
- D. Drug A has a wider therapeutic window than drug B
- E. Drug A is about 100 times more potent than drug B

29. If two drugs with the same effect, taken together, produce an effect that is equal in magnitude to the sum of the effects of the drugs given individually, what is this called?

- A. Antagonism
- B. Potentiation
- C. Synergism
- D. Additive effect
- E. Supersensitivity

30. Superinfections are more common with which of the following?

- A. Use of narrow spectrum antibiotics.
- B. Short courses of antibiotics.
- C. Use of aminoglycoside antibiotics.
- D. Use of broad-spectrum antibiotic
- E. Use of antibiotics that are completely absorbed from the small intestines.