Prof. Lester's BIOL 210 Practice Exam 3 (There is no answer key. Please do not email or ask me for answers.)

Chapters 12, 13, 14, 15

20) Which of the following statements aA) All fungi are unicellular.C) Fungi are heterotrophic.	about fungi is false? B) All fungi have eukary D) Most fungi are aerob		fungi are patho	genic to humans.
21) Which of the following statements is A) Fungi produce sexual spores. C) Fungal spores are used in identificat E) Fungal spores are resting spores to produce the statement of the spores are resting spores to produce the spores are resting	tion of fungi.	D) Fungal spor	ce asexual spore es are for reproc nental conditions	duction.
22) In which of the following ways do virA) Viruses are filterable.C) Viruses don't have any nucleic acid.E) Viruses don't reproduce.	B) Viruses are obligate	intracellular para	asites.	
23) Which of the following is <i>NOT</i> a me A) In laboratory animals B) In contact B) None of the above		mbryonated egg	s D) In c	ell culture
24) The definition of <i>lysogeny</i> isA) Phage DNA is incorporated into hostC) The period during replication when vD) When the burst time takes an unusual	virions are not present.	, ,	host cell due to a	
25) A viroid isA) A complete, infectious virus particle.C) A capsid without a nucleic acid.	B) A nonenvelo D) A provirus.	ped, infectious p E) An i	piece of RNA. nfectious protein	1.
26) A clear area against a confluent "lav A) Phage. B) Pock. C) Cell			h.	
27) A persistent infection is an infectionA) The virus remains in equilibrium withB) Viral replication is unusually slow.D) Host cells are gradually lysed.	the host without causing	process occurs	gradually over a	a long period.
28) An infectious protein is a A) Bacteriophage. B) Prion.	C) Retrovirus.	D) Viroid.	E) Papovavirus	3.
29) An envelope is acquired during which A) Penetration B) Attachment			synthesis E) Rele	ease
30) An example of a latent viral infection A) Subacute sclerosing panencephalitis		C) Influenza.	D) Smallpox.	E) Mumps.
31) Put the following in the correct orde 1-Maturation; 2-DNA synthesis; 3-Trar A) 1, 2, 3, 4 B) 2, 3, 4, 1			, 2, 3	E) 4, 3, 2, 1

- 32) A viral species is a group of viruses that
- A) Have the same morphology and nucleic acid.
- B) Have the same genetic information and ecological niche.
- C) Infect the same cells and cause the same disease.
- D) Can't be defined.
- 33) Which of the following statements about viruses is false?
- A) Viruses contain DNA or RNA but never both.
- B) Viruses contain a protein coat.
- C) Viruses use the anabolic machinery of the cell.
- D) Viruses use their own catabolic enzymes.
- E) Viruses have genes.

Compare and contrast lytic bacterial virus multiplication with animal virus multiplication.

What kinds of things can be infectious?

What is special about HPV that makes it hard for cells to eliminate it?

For Animal Viruses, focus on the underlined viruses. Know their name, their family, and what disease they cause.

- 1) A commensal bacterium
- A) Does not receive any benefit from its host.
- B) Is beneficial to its host.
- C) May be an opportunistic pathogen.
- D) Does not infect its host.

- E) B and D only.
- 2) A nosocomial infection is
- A) Always present but is inapparent at the time of hospitalization.
- B) Acquired during the course of hospitalization.
- C) Always caused by medical personnel.
- D) Only a result of surgery.
- E) Always caused by pathogenic bacteria.
- 3) The major significance of Koch's work was that
- A) Microorganisms are present in a diseased animal.
- B) Diseases can be transmitted from one animal to another.
- C) Microorganisms can be cultured.
- D) Microorganisms cause disease.
- E) Microorganisms are the result of disease.
- 4) Koch's postulates don't apply to all diseases because
- A) Some microorganisms can't be cultured in laboratory media.
- B) Some microorganisms don't cause the same disease in laboratory animals.
- C) Some microorganisms cause different symptoms under different conditions.
- D) Some microorganisms can't be observed.
- E) Not all diseases are caused by microorganisms.

	ne following diseases i B) Tuberculosis	s <i>NOT</i> spread b C) Measles	y droplet infect D) Common c		ohtheria
	transmission differs f juire an arthropod. irect contact.	B) Involves for		esn't involve sp	pecific diseases.
A) Endemic – B) Epidemic – C) Pandemic – D) Sporadic –	ne following definition a disease that is constr- fraction of the popula- a disease that affects a disease that affects number of new cases	antly present in ation having a d a large number a population occ	isease at a spec of people in th		ort time
	ved <i>Bacillus anthracis</i> (aB) Focal infection	multiplying in C) Local infec			nis condition called? stemic infection
A) Cause disea	nicrobiota differ from a ases. B) Are ed by direct contact.	e found in a cert	ain location on	the host.	E) Never cause disease.
A) They occurC) They are ca	the following statemer in compromised patients aused by drug-resistant was infected before h	ents. t bacteria.	omial infections B) They are ca D) They are ca	aused by oppor	
11) Which of (A) Malaria	the following is <i>NOT</i> a B) AIDS C) Tul	a communicable berculosis	e disease? D) Tetanus	E) Typhoid fe	ever
12) Which of (A) Water	the following is a fomi B) Droplets from a sr		D) Inse	ects E) A h	nypodermic needle
 A) Acute – a s B) Inapparent C) Chronic – a D) Primary int 	the following definition short-lasting primary in the infection characterists a disease that develops fection — an initial illustrated infection — a long-lasting statement of the fection infection — a long-lasting statement of the fection in the	nfection stic of a carrier s s slowly and lass ess			
14) Influenza (A) Direct cont	transmitted by an unpract. B) Droplet tra		is an example of C) Fomite.	of D) Vector.	E) Vehicle transmission.
15) A sexually A) Direct cont	transmitted disease is tact. B) Droplet tra	-	C) Fomite.	D) Vector.	E) Vehicle transmission.
16) Gastroente A) Direct cont	eritis acquired from roatact. B) Droplet tra		ample of C) Fomite.	D) Vector.	E) Vehicle transmission.

A) Direct contact. B) Droplet transmission. C) Fomite. D) Vector. E) Vehicle transmission.							
 18) <i>Pseudomonas</i> bacteria colonized the bile duct of a patient following his liver transplant surgery. This an example of a A) Communicable disease. B) Latent infection. C) Nosocomial infection. D) Sporadic disease. E) None of the above. 							
 19) Which of the following statements is false? A) Leukocidins destroy neutrophils. B) Hemolysins lyse red blood cells. C) Hyaluronidase breaks down substances between cells. D) Kinase destroys fibrin clots. E) Coagulase destroys blood clots. 							
 20) Endotoxins are A) Associated with gram-positive bacteria. B) Specific in their method of action. C) Part of the gram-negative cell wall. D) Excreted from the cell. E) A-B toxins. 							
 21) Cytopathic effects are changes in host cells due to A) Viral infections. B) Protozoan infections. C) Fungal infections. D) Bacterial infections. E) Helminthic infections. 							
22) Siderophores are bacterial proteins that compete with animal A) Antibodies. B) Red blood cells. C) Transferrin. D) White blood cells. E) Receptors.							
23) Which of the following is <i>NOT</i> considered entry via the parenteral route? A) Injection B) Bite C) Surgery D) Hair follicle E) Skin cut							
 24) Which of the following does <i>NOT</i> contribute to the virulence of a pathogen? A) Numbers of microorganisms that gain access to a host B) Cell wall C) Toxins D) Enzymes E) All of the above contribute to a pathogen's virulence. 							
25) Lysogenic bacteriophages contribute to bacterial virulence because bacteriophagesA) Give new gene sequences to the host bacteria. B) Produce toxins.C) Carry plasmids. D) Kill the bacteria causing release of endotoxins. E) Kill human cells.							
26) Koch observed <i>Bacillus anthracis</i> multiplying in the blood of cattle. What is this condition called? A) Bacteremia B) Focal infection C) Local infection D) Septicemia E) Systemic infection.							
 27) Which of the following definitions is incorrect? A) Acute - a short-lasting primary infection B) Inapparent - infection characteristic of a carrier state C) Chronic - a disease that develops slowly and lasts for months D) Primary infection - an initial illness E) Secondary infection - a long-lasting illness 							
28) Incidence takes into account: A) all people with the disease B) only new cases of the disease C) only old cases of the disease D) the burden on society caused by that disease							