5. Histamine and serotonin are released from human A. endothelium B. fibroblasts C. macrophages

- D. neutrophils
- E. platelets XXX

1 . Apoptosis will NOT produce

- A. crosslinking of proteins
- B. dissolution of cytoskeleton
- C. fragmentation of the genome
- D. inflammation around the dead cell XXX
- E. separation from surrounding cells

6. Aggregates platelets and constricts blood vessels

- A. C3b
- B. C5b-9
- C. leukotriene B4
- D. prostaglandin E
- * E. thromboxane A2

E.	all the above are evidence of irreversible injury
8. WI	hich ion is blamed for "reperfusion injury"?
* A.	calcium
В.	magnesium
c.	phosphate
D.	potassium
E.	sodium
9. Yo	u're most likely to see caseous necrosis in
A.	calcified fat around a wounded pancreas
В.	gangrenous diabetic foot
C.	infarcted myocardium
D.	pus in a boil
* E.	tuberculous lung
10. T	he "acute phase reaction" in acute inflammation is a group of

7. Which is NOT evidence of irreversible cell injury?

calcium chunks in the mitochondria

nuclear pyknosis

rupture of the lysosomes

A.

В.

C.

D.

*A. acute cell swelling ("cellular edema")

	biochemical	changes	mediated	b١	V:
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A. dilatation of small blood vessels

* B. factors released from macrophages			
C. histamine and complement components, among others			
D. neutrophil injury to tissue			
E. the increased erythrocyte sedimentation rate			
13. Which is MOST LIKELY to produce directly an exudate rather than			
a transudate?			
* A. inflammation			
B. kidney failure			
C. left-sided heart failure			
D. liver failure			
E. plugged lymphatics			
16. stratified squamous epithelium in a smoker's airway is			
A. atrophy			
B. dysplasia			
C. hyperplasia			

- D. hypertrophy

 * E. metaplasia
- 17. In the lung. The carbon pigment is located within
- A. basal cells
- B. fibroblasts
- C. lymphocytes
- * D. macrophages
- E. mast cells

- 18. Which is NOT true of leukotriene B4?
 - A. arachidonic acid metabolite
 - **B.chemotactic for neutrophils**
 - C.makes vessels permeable to albumin
 - * D.opsonizes bacteria
 - E.promotes neutrophil adherence to endothelium

A. caseous necrosis	
B. coagulation necrosis	
C. fibrinoid necrosis	
D. liquefaction necrosis	
E. no necrosis	
19. heart attack, day 4 [B]	
20. sudden cardiac death [E]	
21. polyarteritis, vessel wall [C]	
22. pus, gas gangrene, brain infarct [D]	
23. tuberculosis [A]	
28. pumped-up muscles in a bodybuilder	Effect is predominantly
A. anaplasia	
B. dysplasia	

C. hyperplasia * D. hypertrophy E. metaplasia Altered cell growth. A. atrophy B. dysplasia C. hyperplasia D. hypertrophy E. metaplasia 51. adrenal cortex shrank after the pituitary stopped making ACTH [A] 52. bizarre, precancerous cells on a pap smear of the cervix [B] 53. pumped-up muscles in a bodybuilder [D] 54. red cell marrow precursors after a blood donation [C] 55. stratified squamous epithelium in a smoker's airway [E] 1. Hyperplasia: *A. is characterized by an increase in cell number

B. is characterized by an increase in cell size, leading to an increase in organ size

C. is c	haracterized by smaller-than-normal cells which may undergo necrosis
D. is a	always a pathologic process
2. Apo	optosis:
A. is ι	usually a regulated, controlled process
B. pla	ys a role in embryogenesis
*C. bo	oth
D. nei	ither
1.	Atrophy is
Α.	a decrease in the size of cells
В.	an increase in the number of cells
C.	an increase in the size of cells
D.	a change from one cell type to another
E.	a form of dysplasia
2.	An increase in the size of an organ due to increased numbers of cells is

A.	atrophy
В.	hypertrophy
C.	hyperplasia
D.	metaplasia
E.	dysplasia
3.	Hypoxia is
A.	lack of oxygen relative to demand
B.	allergic reaction
C.	infection
D.	always due to lung problems
E.	never due to heart disease
4.	Examples of ischemic heart disease include all of the following except
A.	angina
В.	chronic fibrosis
C.	myocardial infarcts
D.	cardiomyopathy
E.	cardiac myxoma