國立臺灣大學 106 學年度碩士班招生考試試題

科目: 病理學(C)

366

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※ 注意:請於試卷內之「非選擇題作答區」作答,並應註明作答之題號。

- 、請簡述過敏性疾病(hypersensitivity diseases)的種類、各自的免疫致病機制以及特徵性病變。(20 分)
- 二、請簡述腫瘤或腫瘤細胞的特徵。(10 分)
- 三、請簡述何種結構或機制,讓呼吸至動物肺泡腔的空氣保持無菌狀態。(20 分)
- 🖂 · Cell death can occur in many ways. Please compare differences between necrosis and apoptosis, including mechanisms and histologic changes (10 points). Which experiments will you perform to distinguish between necrosis and apoptosis? (7 points)
- Ξ . Please match a disease with the possible mechanism of systemic edema in the table. (1.5 point each)

Terminology	Definition
1. () Hypoalbuminemia	A. Increased hydrostatic pressure
2. () Feline infectious	B. Reduced hydrostatic pressure
peritonitis virus infection	C. Increased osmotic pressure in
3. (,) Liver	vessels
cirrhosis	D. Reduced osmotic pressure in
4. (,)	vessels
Congestive heart failure	E. Lymphatic obstruction
5. () Protein-losing	F. Increased vascular
gastroenteropathy	permeability
6. () Glomerulopathies	G. Decreases vascular
(nephrotic syndrome)	permeability
	H. Increased sodium retention

六、Please match pathological findings with types of cell injury (1.5 point each)

Patl	hole	ogical findings	Definition
1.	() Renal infarcts	A. Coagulative necrosis
2.	() Cerebral infarcts	B. Liquefactive necrosis
3.	() Myocardial	C. Zenker's necrosis
infar	cts		D. Gangrene necrosis
4.	() Tuberculosis	E. Caseous necrosis
5.	() Abcess	F. Fat necrosis
6.	(,) Ergot	
intox	cica	tion	
7.	() Nutmeg liver	
8.	() Pancreatitis	

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→ Please match the terminology with its definition (1.5 point each)

Terminology	Definition
1. () Metaplasi	A. Reversible change in which one differentiated cell type
2. () Hyperplas	is replaced by another differentiated cell type.
3. () Serous atr	ophy B. Disordered growth of cells (loss of uniformity and
4. () Transudat	e architectural orientation)
5. () Embolus	C. Increase in organ size or tissue mass caused by an
6. () Frameshif	increase in the number of constituent cells
mutation	D. The decrease in size or amount of skeletal muscle cells
7. () Nonsense	
mutation	F. The cytoplasm of the proximal tubule epithelial cells is
8. () Hyaline ca	filled with eosinophilic homogeneous droplets—protein
	that has been resorbed by the cells from the glomerular
	filtrate.
·	G. Excessive production of normal protein in the
	cytoplasm of some plasma cells
	H. Deposition of sodium urate crystals or urates in tissue
	I. Protein in lumens of renal tubules in a proteinuria
	J. The result of the deposition of immunoglobulin,
	complement, and/or plasma proteins, including fibrin in
	the wall of a vessel.
	K. A base-pair substitution does not result in a change in
	the amino acid.
	L. Mutation produces a change in a single amino acid.
	M. Mutation produces a stop codon in the mRNA, which
	terminates translation of the polypeptide.
	N. Mutation alters all of the codons downstream from the
	site of insertion or deletion.
	O. Increased water shift from intravascular to the
	interstitial space due to disturbance of starling forces
	P. Increased water shift from intravascular to the
	interstitial space due to damage to the capillary wall
	Q. An area of necrosis secondary to decreased blood flow
	R. A blockage-causing piece of material, inside a blood
	vessel.