

國立成功大學

112學年度碩士班招生考試試題

編 號：276

系 所：臨床藥學與藥物科技研究所

科 目：藥理學

日 期：0207

節 次：第 2 節

備 註：不可使用計算機

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

1. 配合題：請由下列藥理機轉表格內的選項選出一個最適合的答案，每一個藥理機轉答案只能選一次；一個藥物題目只有一個藥理機轉答案(請注意：藥理機轉的選項可能比題目多)。此外，請寫出該藥物的主要臨床用途(請注意：抗凝血跟抗血小板需各別寫清楚。)(50%)

編號	答案	臨床用途	藥名
1			Amlodipine
2			Vandetanib
3			Nevirapine
4			Eptifibatide
5			Mannitol
6			Flecainide
7		請於答案卷上作答	Colesevelam
8			Sacubitril
9			Evolocumab
10			Fenoprofen
11			Adalimumab
12			Mepolizumab
13			Caspofungin
14			Tigecyclin
15			Terbinafine

16			Chloramphenicol
17			Vancomycin
18			Losartan
19			Pantoprazole
20			Nirmatrelvir
21			Defibrotide
22			Mupirocin
23			Roflumilast
24			Dasatinib
25			Ribociclib

藥理機轉選項：

- (1) Nucleoside Reverse Transcriptase Inhibitor
- (2) Non-Nucleoside Reverse Transcriptase Inhibitor
- (3) Enhance plasmin to hydrolyze fibrin
- (4) Proprotein convertase subtilisin/kexin type 9 inhibitor
- (5) Bile acid sequestrant
- (6) Proton pump inhibitor
- (7) H₂ receptor antagonist
- (8) Cyclooxygenase inhibitor
- (9) Vascular endothelial growth factor receptor inhibitor
- (10) 3CL protease inhibitor
- (11) Anti-TNF α antibody
- (12) TNF α receptor
- (13) Anti-IL-5 antibody
- (14) β blocker
- (15) Neprilysin inhibitor

- (16) Sodium channel blocker class IC
- (17) Osmotic diuretics
- (18) Angiotension converting enzyme inhibition
- (19) Angiotension II receptor blockade
- (20) β -1,3-glucan synthase inhibitor
- (21) 14α -demethylase inhibitor
- (22) Squalene epoxidase inhibitor
- (23) Bind to 30S ribosomal subunit and interfere with protein synthesis
- (24) Bind to 50S ribosomal subunit and interfere with protein synthesis
- (25) Inhibit transglycosylase and transpeptidase
- (26) Inhibit transpeptidase
- (27) Bind to isoleucyl tRNA synthase
- (28) Phosphodiesterase inhibitor
- (29) P2Y₁₂ receptor antagonist
- (30) Glycoprotein IIb/IIIa receptor antagonist
- (31) Leukotriene modifiers
- (32) Bcr-Abl kinase inhibitor
- (33) EGFR/Her kinase inhibitor
- (34) ALK inhibitor
- (35) Bruton tyrosine kinase inhibitor
- (36) FLT3 kinase inhibitor
- (37) Cyclin-dependent kinase inhibitor
- (38) BRAF kinase inhibitor
- (39) Adrenergic alpha 2 receptor blockade
- (40) Calcium channel blocker

2. 請說明目前可用來降血壓的藥物種類(並列舉藥名)、及其主要的作用機轉為何？(15%)
3. 請說明目前可用來降血糖的藥物種類(並列舉藥名)、及其主要的作用機轉為何？(15%)
4. 請說明雙向情感疾患(bipolar disorder) 之病理機制、常見藥物治療策略有哪些(包含藥物與其作用機制)？(20%)