

類 科：藥事

科 目：調劑學與臨床藥學

考試時間：2小時

座號：_____

※注意：(一)禁止使用電子計算器。

(二)不必抄題，作答時請將試題題號及答案依照順序寫在試卷上，於本試題上作答者，不予計分。

(三)本科目除專門名詞或數理公式外，應使用本國文字作答。

一、請說明下列藥品於青春痘治療的作用及常見劑型：(每小題3分，共15分)

(一) Adapalene

(二) Benzoyl peroxide

(三) Salicylic acid

(四) Resorcinol

(五) Isotretinoin

二、那些藥品具有便秘的副作用，請舉出五項並說明其機轉。(10分)

三、那些藥品與葡萄柚汁會產生交互作用，請舉出五項並說明其機轉。(10分)

四、何謂 High Alert Medications？請舉例說明在藥事作業上的應用。(15分)

五、就讀國小五年級的女兒略有發燒(38.5°C)，林太太到社區藥局購買退燒藥。請詳述藥師須如何協助選擇指示藥品並提供諮詢。(15分)

六、在英國，藥局若與國家健康服務(National Health Service)簽約並提供 Medicines Use Review & Prescription Intervention Service(如下圖)，可以獲得給付。請閱讀並說明如何在臺灣推行。(15分)

Advanced services

Medicines Use Review (MUR) & Prescription Intervention Service

The pharmacist conducts an adherence focussed medicines review with the patient. The review assesses the patient's use of their medicines and attempts to identify and address any problems they may be experiencing. Where necessary, a referral is made to the patient's GP.

The service aims to increase the patient's knowledge of their medication and improve their adherence to the regimen. The MUR can be conducted on a regular basis, e.g. every 12 months, or on an ad hoc basis, when a significant problem with a patient's medication is highlighted during the dispensing process.

At least 70% of the MURs provided each year must be for patients who fall within one of the national target groups:

- patients with respiratory disease (e.g. asthma and COPD);
- patients recently discharged from hospital
- patient taking a 'high risk' medicine (NSAIDs, anticoagulants, antiplatelets and diuretics); and
- patients at risk of or diagnosed with cardiovascular disease and regularly being prescribed at least four medicines.

MURs are conducted in a private consultation area which ensures patient confidentiality.

The pharmacy provides a quarterly summary report to NHS England of MUR consultations conducted. This supports monitoring of the service to determine its effectiveness and value to the NHS.

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七、對非處方藥品的外盒，我國衛生福利部食品藥物管理署與美國 FDA 分別規定如下列圖一與圖二。請比較其差異，並就我國現況申論藥師在非處方藥品的專業角色。(20分)

圖一、我國衛生福利部食品藥物管理署非處方藥外盒格式

項目	【藥物資訊】
1	品名及許可證字號
2	QR Code
3	廠商名稱及地址
4	批號
5	製造日期及有效期間或保存期限
6	有效成分及含量 其他成分(賦形劑)
7	用途(適應症)
8	不得使用族群
9	用法用量
10	類別
11	諮詢專線(如：0800xxxxx)

除 QR Code 外，
其他自由放置

格式化

為便於消費者掃描，「QR Code」應印於藥品開口下方最大面積處的右下角。項次 6 到項次 11 應標示於外盒最大面積處同一面，且不得更換順序。

圖二、US FDA: The Over-the-Counter Medicine Label

Drug Facts

Active ingredient (in each tablet)	Purpose
Chlorpheniramine maleate 2 mg.....	Antihistamine

Uses temporarily relieves these symptoms due to hay fever or other upper respiratory allergies: ■ sneezing ■ runny nose ■ itchy, watery eyes ■ itchy throat

Warnings
Ask a doctor before use if you have
 ■ glaucoma ■ a breathing problem such as emphysema or chronic bronchitis
 ■ trouble urinating due to an enlarged prostate gland
Ask a doctor or pharmacist before use if you are taking tranquilizers or sedatives

When using this product
 ■ drowsiness may occur ■ avoid alcoholic drinks
 ■ alcohol, sedatives, and tranquilizers may increase drowsiness
 ■ be careful when driving a motor vehicle or operating machinery
 ■ excitability may occur, especially in children

If pregnant or breast-feeding, ask a health professional before use.
 Keep out of reach of children. In case of overdose, get medical help or contact a Poison Control Center right away.

Directions

adults and children 12 years and over	take 2 tablets every 4 to 6 hours; not more than 12 tablets in 24 hours
children 6 years to under 12 years	take 1 tablet every 4 to 6 hours; not more than 6 tablets in 24 hours
children under 6 years	ask a doctor

Drug Facts (continued)

Other information ■ store at 20-25° C (68-77° F) ■ protect from excessive moisture

Inactive ingredients D&C yellow no. 10, lactose, magnesium stearate, microcrystalline cellulose, pregelatinized starch