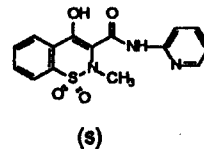
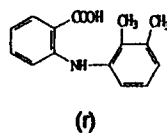
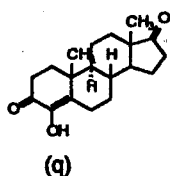
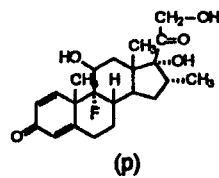
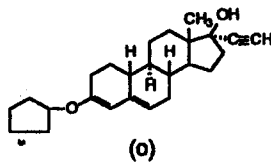
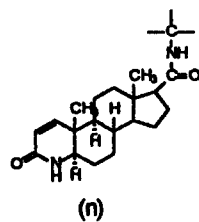
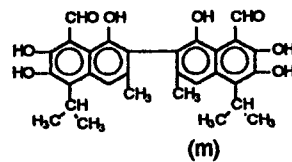
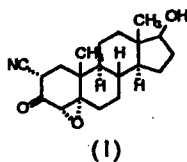
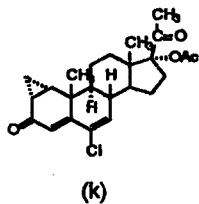
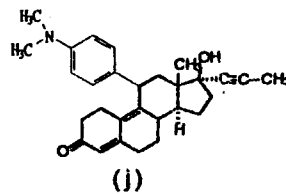
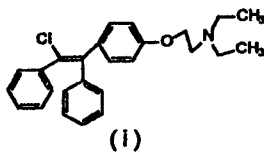
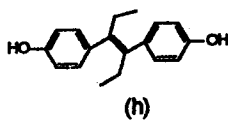
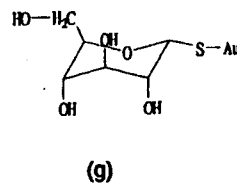
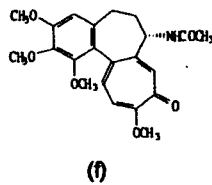
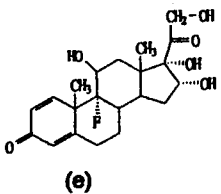
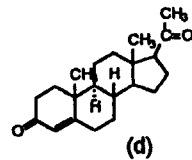
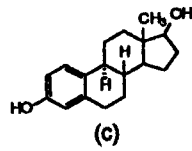
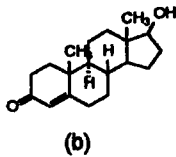
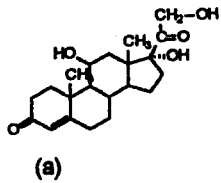


系級	科目	授課教師	考試日期	學號	姓名
藥三	藥物化學	陳國棟	90年1月15日第6:30-7:40節		

※①請注意本試題共 2 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。
 ②每張試題卷務必填寫(學號)、(姓名)。

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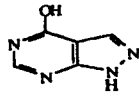
Structures Pools



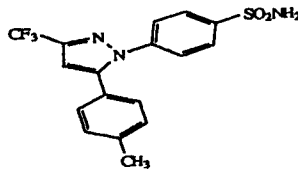
系級	科目	授課教師	考試日期	學號	姓名
	藥物化學	陳國棟	90年1月15日第 6:30-7:45節		

※①請注意本試題共 2 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。
 ②每張試題卷務必填寫(學號)、(姓名)。

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(t)



(u)

Drugs list:

- a). Allopurinol, b). Auranofin, c). Clomiphene, d). Colchicine,
- e). Cyproterone acetate, f). Dexamethasone, g). Diclofenac,
- h). Diethylstilbestrol, i). Estradiol, j). Finasteride, k). 4-Hydroxyandrostenedione,
- l). Hydrocortisone, m). Mefenamic acid. n). Mifepristone, o). Nabumetone
- p). Naproxen, q). Piroxicam, r). Probenecid, s). Progesterone, t). Celecoxib,
- u). Quingestanol, v). Triamcinolone, w). Testosterone, x). Trilostane
- y). 4-hydroxy-androstenedione, z). Norethindrone,

A) Select the appropriated answer, from the Structure Pool, that meet the following statements: (30%)

- 1). Natural estrogen ()
- 2). Natural Glucocorticoid ()
- 3). Natural androgen ()
- 4). Natural progestin ()
- 5). An aromatase inhibitor ()
- 6). Compound from Cotton Seed oil ()
- 7). A selective cyclooxygenase type 2 (Cox-2) inhibitor ()
- 8). Xanthine oxidase inhibitor ()
- 9). Synthetic Estrogen ()
- 10). Drug from *Colchicum Autumnale* ()

B). Choose the most suitable drug (from drugs list) and structure (from structures pool) that match the following statements: (72%)

- | <u>Drug</u> | <u>structure</u> | <u>Statements</u> |
|-------------|------------------|--|
| 11). () | () | Androgenic receptor antagonist for hyperandrogenism. |
| 12). () | () | Semisynthetic progestin (gestagen), it is used in Once-a-Month oral combination contraceptive. |

系 級	科 目	授 課 教 師	考 試 日 期	學 號	姓 名
	藥物化學	陳國棟	90年 1 月 15 日 第 6:30-7:45 節		

※①請注意本試題共 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。
 ②每張試題卷務必填寫(學號)、(姓名)。

- 13). () () An oral active disease modifying agent for rheumatoid arthritis.
- 14). () () A synthetic non-steroidal estrogen and may cause DES baby.
- 15). () () An adrenal corticoids biosynthesis inhibitor ,clinically used for the treatment of Cushing's disease.
- 16). () () 5 α -Reductase inhibitor, clinically used for the treatment of BPH (Benign Prostatic Hyperplasia)
- 17). () () A progesterone receptor antagonist that could be used as an agent for terminating pregnancy within first 9 weeks.
- 18). () () A natural product that is widely used clinically for the treatment of acute attack of gout
- 19). () () An NSAID's of anthranilic acid analogs
- 20). () () A long half-life (t 1/2) NSAID of 1,2-benzothiazine derivatives.
- 21). () () Clinically used for the treatment of infertility.
- 22). () () Potent glucocorticoid , it's acetonide is used to treat dermatological disorders.

C). From Structures Pool, compound (p) is a potent Anti-inflammatory Glucocorticoids with minimal mineralocorticoid side effects and is water insoluble . Please answer questions:

- a). What the generic name of this compound?
- b). Water soluble products (show by structures) that can be used for the preparation of injectable dosage form. (8%)

Attention: The total score of this final exam is 110. The extra 10 points is for your 21st century bonus.

GOOD LUCK TO YOU ALL AND HAVE A NICE LUNAR NEW YEAR HOLIDAY !!

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