

系	級	科	目	授課教師	考 試 日 期	學 號	姓 名
P & PII	3	Med.Chem	KT.Chen	91 年 1 月 16 日第 15:40 節			

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 ※ ②每張試卷務必填寫（學號）、（姓名）。

A). Choose the most suitable drug (from drugs list) and structure

(from structure pool) that match the following statements:(60 %)

- | Drug | structure | Statements |
|--------------|-----------|--|
| 1). () () | | A NSAID prodrug. Its active metabolite is 6-methoxynaphthylacetic acid |
| 2). () () | | An oral active progestin component of once-a-month oral contraceptive product. |
| 3). () () | | A disease modifying agent that is orally active gold preparation, for rheumatoid arthritis |
| 4). () () | | An opiate alkaloid without narcotic analgesic properties, it is used as anti-tussive agent. |
| 5). () () | | An oral active progestin of 19-nortestosterone analog. |
| 6). () () | | 5 α -Reductase inhibitor, clinically used for the treatment of BPH (B enign P rostatic H yperplasia) |
| 7). () () | | A progesterone receptor antagonist that could be used for terminating pregnancy within first 9 weeks. |
| 8). () () | | A natural product from Colchicum autumnale (Liliaceae) and used clinically for the acute attack of gout. |
| 9). () () | | A pure μ -receptor antagonist |
| 10). () () | | A selective cyclooxygenase-2 (COX-2) inhibitor that launched recently in Taiwan for clinical used in the treatment of inflammatory diseases |

Drugs list:

- a).Narcotine, b).Quingestanol, c).Rofecoxib, d).Finasteride, e).Naltrexone
 f)..Auranofin, g). Nabumetone, h).Cyproterone acetate, i) Norethindrone.
 j). Mifepristone, k).Triamcinolone, l). Colchicine, m). Hydrocortisone, n). Piroxicam,,
 o). Allopurinol,.

**B). Indicate the drug (Opioids) that belongs to the following structure classes :
 (15%)**

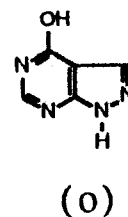
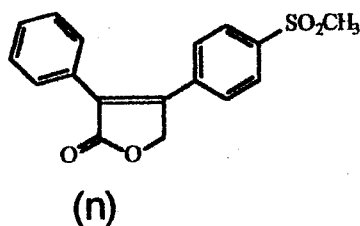
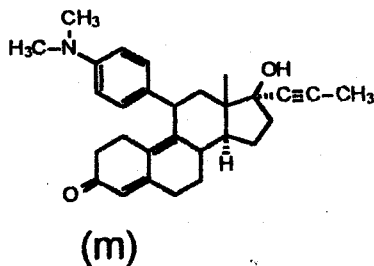
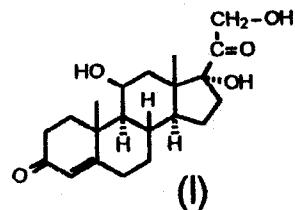
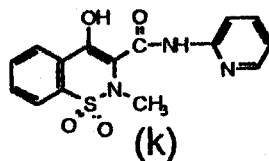
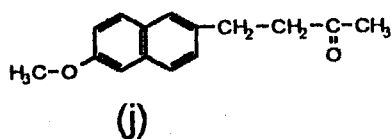
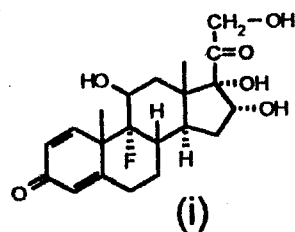
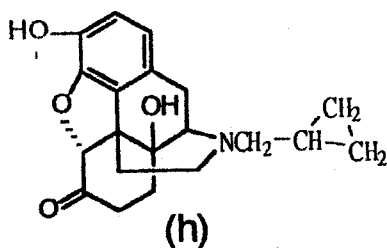
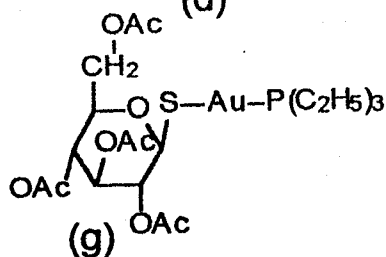
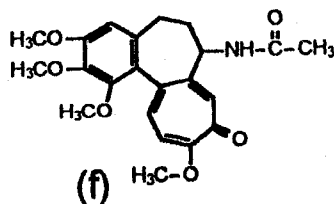
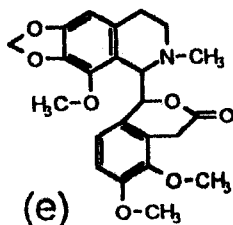
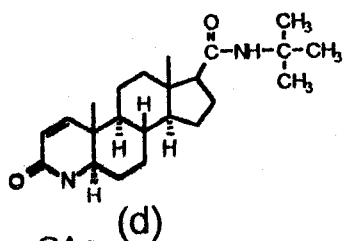
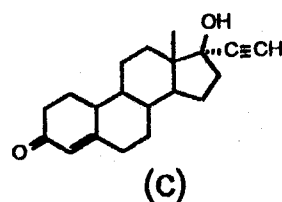
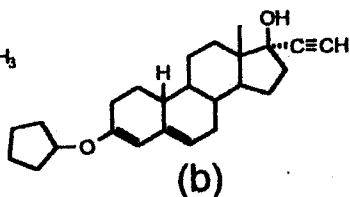
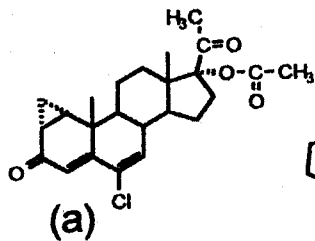
- 11). () Morphinan derivative
 12). () Oripavine derivative
 13). () Benzomorphan derivative
 14). () Piperidine derivative
 15). () Phenanthrene derivative

Drugs: a). Morphine, b) Pentazocine, c) Buprenorphine , d) Pethidine, e) Dextromethorphan

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Structures pool:



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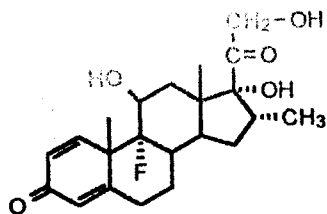
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C). Select the main steroid nuclei for each of the following steroidal compounds: (21%)

- 16). () Hydrocortisone
- 17). () Testosterone
- 18). () Aldosterone
- 19). () Cholesterol
- 20). () Progesterone
- 21). () Estradiol
- 22). () Triamcinolone

The main steroid nuclei: a) Cholane, b) Cholestane, c) Estrane,
 d) Androstane, e) Pregnane

D). The following structural compound is a potent anti-inflammatory glucocorticoid with minimal mineralocorticoidal side effects and is water insoluble.



Please answer questions: (9 %)

23). Generic name of the compound: _____

24). Water soluble products (show by structure): _____ and

25) Name of the soluble product: _____ that can be used for the preparation of injectable dosage form.

Attention: The total score of this final exam. is 105 points , the extra 5 points is
 For your 21st century bonus.
 Good luck to you all and have a nice Lunar new year holiday!!!