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DIPLOMA IN PHARMACY (FINAL YEAR)
PHARMACEUTICAL CHEMISTRY - II
(202)

Time : Three Hours**Maximum Marks : 80**

Note : (i) Attempt total six questions. Question No. 1 is compulsory. From the remaining questions attempt any five.

(ii) Illustrate your answers with neat sketches wherever necessary.

1. Write the chemical structure and chemical name of the following: (any five) 2x5

(i) Cresol

(ii) Sulphaguanidine

(iii) Isoniazid

(iv) Ampicillin

(v) Pyrimethamine

(vi) Phenobarbitone

2. a) Define analeptics classify with examples

3.5x4

b) Write chemical structure, properties and uses of sulfamethoxazole.

c) Mention storage, pharmaceutical formulation and brand name of sulphacetamide.

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(2)

d) Write the structure of the following :-

- | | |
|----------------|---------------|
| i) Pyrazole | ii) Hydantoin |
| iii) Isoxazole | iv) Carbamoyl |

3. a) What are diuretics? Give their classification. $1\frac{1}{2}$

3.5x4

b) Write chemical structure and properties of frusemide.

c) Give the storage condition of the following :-

- i) Paraldehyde $1\frac{1}{2}$
- ii) Insulin

d) Write pharmaceutical formulation and uses of the following:-

- i) Hydrochlorothiazide
- ii) Ethacrynic acid

4. a) Define antiseptics and disinfectants. Classify with examples. $1\frac{1}{2}$ 3.5x4

b) Explain, why sulphamethoxazole and trimethoprim are used in combination. $1\frac{1}{2}$

c) Write chemical structure and uses of the following :-

- i) Cisplatin
- ii) Trimethoprim

(3)

d) Write pharmaceutical formulation and popular brand name of the following:-

- i) Betamethasone
- ii) Nandrolone
- iii) Mannitol

5. a) Define analgesics and antipyretics classify with examples. $1\frac{1}{2}$ 3.5x4

b) Write chemical structure, chemical name, properties and uses of pyrimethamine. 1

c) Mention chemical structure and uses of the following :-

- i) PAS $1\frac{1}{2}$
- ii) Sulphacetamide

d) Write pharmaceutical formulation and popular brand names of the following :-

- i) Phenobarbitone
- ii) Methohexitone

6. a) Define antineoplastics. Give their classification. $1\frac{1}{2}$ 3.5x4

b) Write chemical structure, properties and uses of chlorambucil.

(4)

c) Write pharmaceutical formulation, popular brand name and uses of the following

i) Paracetamol

ii) Warfarin sodium

d) Define hypnotics and sedative classify with examples.

7. Write chemical structure, chemical name, properties and uses of the following:- 3.5x4

a) Pethidine

b) Lignocaine

c) Propranolol

d) Caffeine

8. Write short note on any four of the following:-

3.5x4

a) Antileprotics

b) Anthelmintics

c) Antithyroid drugs

d) Adrenergic drugs

e) Cholinergic drugs

