

DIPLOMA IN PHARMACY (FINAL YEAR)
(NEW)
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 answer with neat sketches wherever necessary.

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

- ~~(i)~~ Proflavine
- ~~(ii)~~ Sulphadiazine
- ~~(iii)~~ Dapsone
- ~~(iv)~~ DEC
- ~~(v)~~ Chloroquine
- ~~(vi)~~ Chlorpromazine

2. ~~(a)~~ Define general anaesthetics. Classify with examples. $3\frac{1}{2}$

- ~~(b)~~ Write chemical structure, properties and uses of benzalkonium chloride. $3\frac{1}{2}$

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~~(c)~~ Mention storage condition, pharmaceutical formulation and brand name of chloroxylenol. $3\frac{1}{2}$

(d) Write the structure of the following : $3\frac{1}{2}$

- (i) Pyrrole
- (ii) Imidazole
- (iii) Oxazole
- (iv) Glycyl

3. ~~(a)~~ Define Antibiotics. Classify with examples. $3\frac{1}{2}$

~~(b)~~ Write chemical structure and properties of penicillin V. $3\frac{1}{2}$

~~(c)~~ Give the storage condition of the following : $3\frac{1}{2}$

- ~~(i)~~ Cyclopropane
- ~~(ii)~~ Diethyl ether

~~(d)~~ Write the pharmaceutical formulation and uses of the following : $3\frac{1}{2}$

- ~~(i)~~ Cephalexin
- ~~(ii)~~ Erythromycin

4. ~~(a)~~ What are Analgesics ? Give suitable examples of the drugs used as narcotic analgesics. $3\frac{1}{2}$

~~(b)~~ Explain the mode of action of sulphonamides. $3\frac{1}{2}$

(c) Write the chemical structure and uses of the following : $3\frac{1}{2}$

- ~~(i)~~ Busulphan
- ~~(ii)~~ Proguanil

(d) Write pharmaceutical formulation and popular brand name of the following : $3\frac{1}{2}$

- ~~(i)~~ Chloroquine phosphate
- ~~(ii)~~ Piperazine citrate
- ~~(iii)~~ Mebendazole

5. ~~(a)~~ Define Antihistamines. Classify with examples. $3\frac{1}{2}$

~~(b)~~ Write chemical structure, chemical name, properties and uses of diphenhydramine. $3\frac{1}{2}$

~~(c)~~ Mention chemical structure and uses of the following : $3\frac{1}{2}$

- ~~(i)~~ Dapsone
- ~~(ii)~~ INH

(d) Write pharmaceutical formulation and popular brand name of the following : $3\frac{1}{2}$

- ~~(i)~~ Griseofulvin
- ~~(ii)~~ Diazepam

6. ~~(a)~~ Define steroidal drugs. Classify with examples. $3\frac{1}{2}$

~~(b)~~ Write chemical structure, properties and uses of hydrocortisone. $3\frac{1}{2}$

~~(c)~~ Write pharmaceutical formulation, popular brand name and uses of the following : $3\frac{1}{2}$

~~(i)~~ Aspirin

~~(ii)~~ Thyroxine

~~(d)~~ Define CVS drugs. Classify with examples. $3\frac{1}{2}$

7. Write chemical structure, chemical name, properties and uses of the following : $3\frac{1}{2}$ each

~~(a)~~ Phenylbutazone

~~(b)~~ Chlorpheniramine

~~(c)~~ Menadione

~~(d)~~ Adrenaline

~~8.~~ Write short notes on any *four* of the following : $3\frac{1}{2}$ each

~~(a)~~ Local anaesthetics

~~(b)~~ Analeptics

~~(c)~~ Diagnostic agents

~~(d)~~ Antifungal agents

~~(e)~~ Oral hypoglycaemic agents