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(3rd YEAR, VI SEM.) EXAMINATION
B.PHARM.

PHARMACEUTICAL CHEMISTRY-VII
(Medicinal Chemistry-II)

Time : 3 Hours]

[Max. Marks : 70

Note: Attempt all question as per Instructions. Draw well labeled diagram wherever necessary.

1. Attempt All questions :

[1×14=14

- (i) Diclofenac belong to

(a) Aryl propionic and derivative	(b) Aryl acetic acid derivative
(c) Pyrazolone derivative	(d) Para amino phenol derivative
- (ii) Famotidine is a

(a) H ₁ antagonist	(b) H ₂ antagonist
(c) H ₃ antagonist	(d) COX-2 inhibitor
- (iii) Heterocyclic ring present in Ranitidine is

(a) Thiazole	(b) Furan
(c) Benzimidazole	(d) thiadiazole
- (iv) Cetrizine is sued as

(a) Antiallergic drug	(b) Diuretic
(c) Anticancer drug	(d) Antibacterial drug
- (v) Dibenzocycloheptene ring present in

(a) Cyproheptadine	(b) Captopril
(c) Ranitidine	(d) Clofibrate
- (vi) Promethazine is used as

(a) Antiemetic	(b) Transquilizer
(c) Antihistaminic	(d) All of these

- (vii) Acetazolamide is used as
 (a) Anticonvulsant (b) Diuretic
 (c) Glaucoma (d) All of these
- (viii) Example of Diagnostic aid is
 (a) Propanoic acid (b) Iopanoic acid
 (c) Pantanoic acid (d) Warfarin
- (ix) Position of $-NH_2$ and $-SO_2NH_2$ groups in sulphanilamide for maximum activity
 (a) 1 and 4 (b) 1 and 3
 (c) 1 and 2 (d) None of these
- (x) Methyldopa is converted into
 (a) α -methyl noradrenaline (b) β -methyl noradrenaline
 (c) α -ethyl noradrenaline (d) β -ethyl noradrenaline
- (xi) Functional group present in captopril
 (a) Carboxyl (b) Hydroxyl
 (c) Sulphydril (d) None of these
- (xii) Warfarin is
 (a) Coumarin derivative (b) thiazole derivative
 (c) Pyrrole derivative (d) Imidazole derivative
- (xiii) Fabric acid derivative is
 (a) Clofibrate (b) Warfarin
 (c) Aspirin (d) Chlorambucil
- (xiv) Logarithm of the effect of the substituent on the acid dissociation constant of benzoic acid is
 (a) Hammett value (b) Taft value
 (c) Hansch value (d) Molar refractivity

2. Attempt any four questions of the following. [3.5×4=14]

- (i) Write category, structure, mechanism of action and uses of Diclofenac.

- (ii) Explain traditional analogs.
 (iii) Give synthesis and uses of Captopril.
 (iv) Give synthesis and uses Sulphadiazine
 (v) Write SAR of thiazides.

3. Attempt any two questions of the following. [7×2=14]

- (i) Write a short on Cetrizine
 (ii) Write synthesis, mechanism of action and uses of Promethazine.
 (iii) Write synthesis, mechanism of action and uses of Cyproheptadine.

4. Attempt any two questions of the following. [7×2=14]

- (i) Define and classify analgesic and antipyretics with chemical structure. Give the mechanism of action and uses of Aspirin.
 (ii) Define and classify antihyperlipidemics with chemical structure. Give the mechanism of action and uses of Clofibrate.
 (iii) Write synthesis, mode of action and uses of Spironolactone.

5. Attempt any One of the following: [14×1=14]

- (i) Define and classify antineoplastic agents with chemical structure. Give synthesis, mechanism of action and uses of 5-Fluorouracil.
 (ii) Explain CADD and molecular modeling approaches in drug design.

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B.PHARM.

(3rd YEAR, VI SEM.) EXAMINATION

PHARMACOLOGY-II

Time : 3 Hours]

[Max. Marks : 70

Note: Attempt all question as per Instructions.

1. Attempt All questions :

[1×14=14

- (i) Which of the following antihypertensive drug can be used in alopecia
 - (a) Minoxidil
 - (b) Diazoxide
 - (c) Sodium Nitroprusside
 - (d) None
- (ii) _____ is an example of combined α and β blockers.
- (iii) The example of amine autocoids include:
 - (a) Histamine
 - (b) 5-HT
 - (c) Both
 - (d) None
- (iv) The example of anthrahillic acid derivative is
 - (a) Mephenamic acid
 - (b) Both
 - (c) Ketoprofen
 - (d) None
- (v) The example of selective cox-2 inhibitor
 - (a) Aspirin
 - (b) Aceclophenac
 - (b) Celecoxib
 - (d) All
- (vi) The example of potassium sparing diuretic is -
 - (a) Spironolactone
 - (b) Furosemide
 - (c) Bumetanide
 - (d) None
- (vii) Which of the following is maturation factor
 - (a) Vitamin B₁₂
 - (b) Folic acid
 - (c) Both
 - (d) None

the fastest acid suppression effect -

- (a) Pantoprazole (b) Pantoprazole
(c) Rabeprazole (d) None

NSAIDS are also known as

- (a) Nonnarcotics (b) Non-opioids
(c) Both (d) None

(x) The drugs that can be used in the management of vertigo -

- (a) Diuretics (b) Corticosteroids
(c) Vasodilators (d) All

(xi) The example of highly sedative Antihistaminic is

- (a) Diphenhydramine (b) Azelastine
(c) Rupatidine (d) Loratidine

(xii) Which of the following antigout agent is uric-acid synthesis inhibitor:

- (a) Allopurinol (b) Probenecid
(c) Colchicine (d) NSAIDS

(xiii) _____ is the strongest organic acid present in the body :

- (a) Heparin (b) Lepirudin
(c) Both (d) None

(xiv) Which of the following drug is bile acid sequestrants :

- (a) Cholestyramine (b) Colestipol
(c) Both (d) none

2. Attempt any four questions of the following.

[3.5×4=14]

- (i) Write a note on cardiac Glycoside.
- (ii) Discuss the pharmacology of PPIs.
- (iii) Define and classify NSAIDS
- (iv) Write a note on Histamine.
- (v) Define the classify anti-asthmatic drugs.

3. Attempt any two questions of the following.

[7×2=14]

- (i) Classify antianginal drugs. Discuss the pharmacology of Nitrates.
- (ii) Classify antiulcer drugs. Discuss the pharmacology of H₂ antihistamines.
- (iii) Write a note on Prostaglandin.

4. Attempt any two questions of the following.

[7×2=14]

- (i) Define and classify antiemetics. Discuss the pharmacology of D₂ blockers.
- (ii) Discuss the pharmacology of ACE inhibitors.
- (iii) Write a note on HMG-COA reductase inhibitors.

5. Attempt any One of the following:

[14×1=14]

- (i) Classify diuretics, discuss the pharmacology of furosemide.
- (ii) Classify antidiarrhoeal agents. Discuss the pharmacology of antisecretory drug.

9.7 JUN 2019

Printing Pages : 4

Paper Code : BPH-604

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B.PHARM.
(3rd YEAR, VI SEM.) EXAMINATION
PHARMACOGNOSY-III

Time : 3 Hours]

[Max. Marks : 70

Note: *Attempt all question as per Instructions. Each question carries equal marks.*

1. Attempt All questions :

[1×14=14]

- (i) Punarnava is used as
 - (a) Laxative
 - (b) Cardiotonic
 - (c) Anticancer
 - (d) Diuretics
- (ii) Solanaceae is the family of
 - (a) Arjuna
 - (b) Tulsi
 - (c) Shankpushpi
 - (d) Kanthkari
- (iii) Coumarin is a type of
 - (a) Alkaloid
 - (b) glycoside
 - (c) Carbohydrate
 - (d) Resin
- (iv) Dioscorea is a type of glycoside
 - (a) Cardiac
 - (b) Saponin
 - (c) Cyanogenetic
 - (d) Anthracene
- (v) Rhubarb is used as
 - (a) Purgatives
 - (b) Diuretics
 - (c) Colouring agent
 - (d) Cardiotonic

- (vi) Borntrager's test is used for which type of glycoside
 (a) Steroidal (b) Flavonoids
 (c) Saponin (d) Anthracene
- (vii) Which one of the following is an example of anthraquinone
 (a) Liquorice (b) Digitalis
 (c) Aloe (d) Ginger
- (viii) Which drug has sour and astringent taste?
 (a) Amla (b) Neem
 (c) Liquorice (d) Saffron
- (ix) Which part of Neem plant has insect repellent property
 (a) Leaf (b) Seeds
 (c) Bark (d) Root
- (x) What is the favorable temperature for cultivation of digitalis?
 (a) 20-30°C (b) 30-40 °C
 (c) 40-50 °C (d) 2-4 °C
- (xi) Amla fruit is the rich source of which vitamin
 (a) A (b) C
 (c) D (d) K
- (xii) Guttika are used in the form of
 (a) Ghee (b) Powder
 (c) Liquid (d) Tablet
- (xiii) The biological name of kalijiri is
 (a) *Centratherum anthelminticum* (b) *Commiphora mukul*
 (c) *Ambilica officinalis* (d) None
- (xiv) Glycosides containing non sugar moieties are known as
 (a) Glycon (b) Aglycon
 (c) Mannose (d) Glucose

2. Attempt any four of the following: [3.5×4=14]

- give the biological source and uses of squill.
- Give the utilization and production of calcium sennosides.
- Write a short note on Ayurvedic system of medicine.
- Write a short note on Tailas and Churnas
- Write pharmacognosy with cultivation and collection of Digitalis.

3. Attempt any two of the following: [7×2=14]

- Write source, utilization, production of Diosgenin of podophyllotoxins
- Discuss in brief about Lehas and Bhasmas.
- Write a short note on cardioactive steroids

4. Attempt any two of the following: [7×2=14]

- Write cultivation and collection and utilization of Liquorice.
- What are the saponin glycosides? Explain with examples.
- Write biological source, cultivation, collection and chemical test of Seena.

5. Attempt any One of the following:

[14×1=14]

- (i) Discuss common vernacular name, biological source, morphology, chemical constituents, pharmacology and uses of Shankpushpi and Shilajit.
- (ii) Give definition, classification and chemical test of glycosides.

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B.PHARM.

(3rd YEAR, VI SEM.) EXAMINATION
ENVIRONMENT AND ECOLOGY

JUN 2018

Time : 3 Hours]

[Max. Marks : 70

Note: Attempt all question as per Instructions. Draw well labeled diagram wherever necessary.

1. Attempt All questions :

[1×14=14

(i) Deforestation causes:

- | | |
|----------------------|----------------------|
| (a) Soil erosion | (b) More floods |
| (c) Reduced rainfall | (d) All of the above |

(ii) New approach to conservation is establishment of

- | | |
|---------------------|------------------------|
| (a) Sanctuaries | (b) Biosphere reserved |
| (c) National park | |
| (d) Reserve forests | |

(iii) Soil erosion can be prevented by

- | | |
|----------------------------------|-------------------------------|
| (a) Good plant cover | (b) Restrict human activities |
| (c) Checking movement of animals | (d) Wind screen only |

(iv) The most toxic metal pollutant of automobile

- | | |
|-------------|-------------|
| (a) Mercury | (b) Cadmium |
| (c) Copper | (d) Lead |

(v) Which of the following activities is prohibited in National park?

- | | |
|-----------------|----------------------|
| (a) Grazing | (b) Forestry |
| (c) Cultivation | (d) All of the above |

- (vi) The ultimate source of energy in an ecosystem is:
- | | |
|--------------|------------------|
| (a) Sunlight | (b) Glucose |
| (c) Protein | (d) Green plants |
- (vii) Correct definition of biosphere is
- | | |
|----------------------------------|--|
| (a) All animals on earth | (b) All plants on earth |
| (c) All living organism on earth | (d) The part of earth and its atmosphere inhabited by living organisms |
- (viii) A pond is:
- A biome
 - A national ecosystem
 - An artificial ecosystem
 - A community of plants and animal only
- (ix) Social forestry is
- Growing one type of trees
 - Growing different types of plants together
 - Growing and management of useful plants on common land
 - Management of forests by co-operative societies.
- (x) In the atmosphere the layer above the troposphere is
- | | |
|------------------|----------------|
| (a) Stratosphere | (b) Mesosphere |
| (c) Thermosphere | (d) Exosphere |
- (xi) Photovoltaic are used to harness which of the following Types of energy?
- | | |
|-----------|----------------|
| (a) Wind | (b) Atomic |
| (c) Solar | (d) Geothermal |
- (xii) Animals which are at the verge of extinction are
- | | |
|----------------|----------------|
| (a) Vulnerable | (b) Endangered |
| (c) Extinct | (d) Both a & b |

- (xiii) Between the community diversity is called as
- | | |
|-----------|---------------|
| (a) Alpha | (b) Beta |
| (c) Gamma | (d) Ecosystem |
- (xiv) The area reserved for the welfare of wild life is called
- | | |
|-------------------|----------------------|
| (a) National Park | (b) Botanical garden |
| (c) Sanctuary | (d) Forest |

2. Attempt any four questions of the following. [3.5×4=14]

- Scope of environmental studies
- Role of individual in conservation
- Endangered and vulneranable species
- Biological magnification
- National park and Bird Sanctuary

3. Attempt any two questions of the following. [7×2=14]

- Give an account of utilization, exploitation and associated problems of energy resources.
- Describe the causes, effect and control measures of nuclear pollution.
- Write short notes on natural resources.

4. Attempt any two questions of the following. [7×2=14]

- Define environment. What are its different components.
- Differentiate between alpha, Beta and gamma diversity.
- Describe the different components of forest ecosystem.

5. Attempt any One of the following: [14×1=14]

- What is conservation? Describe In-situ and Ex.-Situ conservation of Biodiversity.
- What is air pollution? What are the function of state and central Board under the air (Prevention & Control of) Pollution Act, 1981.