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NRJ/KW/17/4060

Master of Science (M.Sc.) Third Semester (CBCS) (Microbiology) Examination
CORE (SUBJECT CENTRIC) DRUGS AND DISEASE MANAGEMENT (DDM)

Optional Paper—4

Paper—IV

Time : Three Hours]

[Maximum Marks : 80

Note :— ALL questions are compulsory and carry equal marks.

1. Explain the concept of Drug latention. Add a note on prodrugs. 16
OR
2. Describe different mechanisms of drug resistance. 16
Describe mode of action of Antitubercle agents. 16
OR
- Write a note on :
 - (a) Benzylkonium chloride 8
 - (b) Ketoconazole. 8
3. Explain various Anti protozoal Agents. 16
OR
- Write a note on :
 - (a) Pyrimethamine 8
 - (b) Chloroquine. 8
4. (a) Write an account on Antihistamines. 8
(b) Explain different types of prostaglandins. 8
OR
- Discuss the mode of action of Morphine and its derivatives. 16
5. (a) Describe any two mechanisms of drug action. 4
(b) Write a note on nystatin as Antifungal agent 4
(c) Give the mechanism of action of Quininsulphate. 4
(d) Explain the role of Phenylbutazoneam. 4

AHK/KW/19/1630

Master of Science (M.Sc.) Third Semester (CBCS) (Microbiology) Examination
CORE (Subject Centric) : DRUGS AND DISEASE MANAGEMENT (DDM)

Optional Paper—4

Paper—IV

Time : Three Hours]

[Maximum Marks : 80

N.B. :— All questions are compulsory and carry equal marks.

1. Give a detailed account on carrier-linked prodrugs. 16

OR

Write notes on :

(a) MDR 8

(b) Prodrugs of carboxylic acid. 8

2. Discuss the mode of action of iodophores, benzylkonium chloride and mercury compounds. 16

OR

Write notes on :

(a) Clotrimazole and Ethambutol 8

(b) Nystatin and Gentian violet. 8

3. Explain the mode of action of Chloroquine and 8-hydroxyquinolone. 16

OR

Write notes on :

(a) Metranidazole 8

(b) Primaquine phosphate. 8

4. Enlist antihistaminic agents and discuss their mode of actions. 16

OR

Write notes on :

(a) Phenyl butazone 8

(b) Prostaglandins 8

5. Write notes on :

(a) Prodrugs of amines 4

(b) Amphotericin B 4

(c) Pyrimethamine 4

(d) Morphines. 4

S.S.E.S. A's Science College, Congress Nagar, Nagpur
Terminal Examination
M.Sc. IInd Year (Microbiology)
Semester III (Winter 2019)
Paper IV- DRUG AND DISEASE MANAGEMENT (DDM)

Time: 3hrs

Note: All the questions are compulsory and carry equal marks.

Marks: 80

Draw diagrams wherever necessary.

- Q.1. Explain the mechanism of drug resistance in microorganisms. OR 16
- Q.1. Write short notes on following: 8
a) Carrier Linked Prodrugs. 8
b) Bioprecursor Prodrugs. :
- Q.2. Explain Antifungal agents in detail. OR 16
- Q.2. Write short notes on: 8
a) Iodophores and Benzylkonium Chloride 8
b) Isoniazid and Rifamycin
- Q.3. Explain various Antiprotozoal agents. OR 16
- Q.3. Explain the following: 8
a) Pyrimethamine 8
b) Chloroquine
- Q.4. a) Write an account on Antihistamines. 8
b) Explain different types of Prostaglandins. 8
OR
- Q.4. Describe the mode of action of Morphine and its derivatives. 16
- Q.5. a) Describe any two mechanisms of drug action. 4
b) Write a note on Nystatin as Antifungal agent. 4
c) Give mechanism of action of Quinine sulphate. 4
d) Explain the role of Phenylbutazone. 4

Gulhane
09/10/19
Name of Teacher: Dr. Pranita Gulhane

S.S.E.S. A's Science College, Congress Nagar, Nagpur
Terminal Examination
M.Sc. IInd Year (Microbiology)
Semester III (Winter 2019)
Paper IV- DRUG AND DISEASE MANAGEMENT (DDM)

Marks: 80

Time: 3hrs

Note: All the questions are compulsory and carry equal marks.

Draw diagrams wherever necessary.

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|------|--|----|
| Q.1. | Explain the mechanism of drug resistance in microorganisms. | 16 |
| | OR | |
| Q.1. | Write short notes on following: | 8 |
| | a) Carrier Linked Prodrugs. | 8 |
| | b) Bioprecursor Prodrugs. | 16 |
| Q.2 | Explain Antifungal agents in detail. | |
| | OR | |
| Q.2 | Write short notes on: | 8 |
| | a) Iodophores and Benzylkonium Chloride | 8 |
| | b) Isoniazid and Rifamycin | 16 |
| Q.3 | Explain various Antiprotozoal agents. | |
| | OR | |
| Q.3 | Explain the following: | 8 |
| | a) Pyrimethamine | 8 |
| | b) Chloroquine | |
| Q.4 | a) Write an account on Antihistamines. | 8 |
| | b) Explain different types of Prostaglandins. | 8 |
| | OR | |
| Q.4 | Describe the mode of action of Morphine and its derivatives. | 16 |
| Q.5 | a) Describe any two mechanisms of drug action. | 4 |
| | b) Write a note on Nystatin as Antifungal agent. | 4 |
| | c) Give mechanism of action of Quinine sulphate. | 4 |
| | d) Explain the role of Phenylbutazone. | 4 |

P. Gulhane
09/10/19
Name of Teacher: Dr. Poonita Gulhane

Master of Science (M.Sc.) Third Semester Choice Based Credit System (CBCS)
(Microbiology) Examination
Core (Subject Centric) DRUGS AND DISEASE MANAGEMENT (DDM)

Optional Paper-4

Paper-IV

Time : Three Hours]

[Maximum Marks : 80

- N.B. :— (1) All questions are compulsory.
(2) Draw diagrams wherever necessary.

1. Discuss the different mechanism of mode of drug action against bacteria. 16
- OR
- What are prodrugs ? Add a note on carrier-linked prodrugs and bioprecursors. 16
2. Discuss the mechanisms of action of Clotrimazole and Ethambutol. 16
- OR
- Describe the mechanisms of action of Idoxuridine and Benzalkonium Chloride. 16
3. Give the detail account of Antiprotozoal drugs. 16
- OR
- Write a note on :
- (a) Chloroquine. 8
- (b) Quinesulphate. 8
4. Discuss Morphine and their derivatives. 16
- OR
- Give the comprehensive account of antihistaminic agents. 16
5. Write notes on :
- (a) Efflux pumps. 4
- (b) Amphotericin B. 4
- (c) Pyrimethamine. 4
- (d) Prostaglandins. 4

Time : 3 Hours

Paper 4(Drugs and Disease Management)

Maximum Marks : 80

Note: 1) All questions are compulsory and marks as indicated.

2) Draw diagram wherever necessary.

Q.1. Describe the concept of drug latention and write a note on prodrug. 16

OR

Explain mechanism of drug action and drug resistance including MDR. 16

Q.2. Explain in detail about antifungal agents- ketoconazole, Amphotericin B, Clotrimazole. 16

OR

a) What is antitubercular agents? Explain isoniazid and Rifamycin. 8

b) What is antiinfective agents? Explain Benzalkonium chloride and gentian violet. 8

Q.3. Discuss in detail about Metronidazole and 8- hydroxyquinoline. 16

OR

Write a note on Quininesulphate and Chloroquine. 16

Q.4. Explain in detail about Morphine and it's derivatives. 16

OR

a) Give an account on antihistaminic agents. 8

b) Describe about oxyphenbutazone and phenylbutazone. 8

Q.5. Write notes on :

A) Prodrug of Carboxylic acid 4

B) Iodophores 4

C) Pyrimethamine. 4

D) Prostaglandins 4