

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: B PHARM
BRANCH: PHARMACY**

**SEMESTER : VII
SESSION : MO/18**

**SUBJECT: PS7407 PHARMACOLOGY - IV (CHEMOTHERAPEUTIC PHARMACOLOGY)
TIME: 3 HOURS**

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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| Q.1(a) Define Chemotherapy. | [2] |
| Q.1(b) Write a short note on chemotherapy with sulphonamides. What is the mechanism of Cotrimoxazole? | [4] |
| Q.1(c) Explain brief notes on a) Cephalosporins b) Penicillin | [6] |
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| Q.2(a) Classify Macrolide antibiotics. | [2] |
| Q.2(b) Describe the mechanisms of Quinolone & Macrolide antibiotics. | [4] |
| Q.2(c) What are quinolone antibiotics? Describe their mechanism in brief. | [6] |
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| Q.3(a) Define Tuberculosis & Leprosy. | [2] |
| Q.3(b) Classify the anti-tubercular drugs in brief with the mechanism of each. | [4] |
| Q.3(c) Summarize the anti-fungal agents? Describe their uses and mechanism as well. | [6] |
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| Q.4(a) Define Cancer & neoplasm. | [2] |
| Q.4(b) Describe the pathogenesis of cancer (both primary & secondary cancer). | [4] |
| Q.4(c) Classify Anticancer agents? Illustrate the mechanism of 5 anticancer agents. | [6] |
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| Q.5(a) Describe three protozoa infection. | [2] |
| Q.5(b) Classify the chemotherapy of protozoal infection in brief? Write the chemotherapy of Amoebiasis. | [4] |
| Q.5(c) Summarize a brief note on antiviral agents with their uses for different infections. | [6] |
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| Q.6(a) What is New drug development (NDA) & Investigational New Drug (IND) file? | [2] |
| Q.6(b) Illustrate a brief overview of Discovery & development of New drugs. | [4] |
| Q.6(c) Define Clinical trial? What are the different phases of clinical trial. Design the phases on clinical trial briefly in a clinical setting. | [6] |
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| Q.7(a) What is benign & malignant tumor? | [2] |
| Q.7(b) Describe a short note on Urinary Tract Infections and their Chemotherapy. | [4] |
| Q.7(c) Define Sexually Transmitted Diseases (STD). Summarize the chemotherapy of STDs. | [6] |

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