Reg. No	Name	19P4031
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MSc DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019 SEMESTER 4: PHARMACEUTICAL CHEMISTRY

COURSE: 16P4CPHT15EL: PHARMACEUTICAL CHEMISTRY - IV

(For Regular - 2017 Admission and Supplementary - 2016 Admission)

Time: Three Hours

Max. Marks: 75

Section A Answer any 10 (2 marks each)

- 1. What are Nonclassical bioisosteres? Give examples.
- 2. What is regression or correlation coefficient? What value of this coefficient is acceptable for biological data?
- 3. Explain with a suitable example, how the chemical modifications altering the log P values can be effectively utilised to remove central nervous system side effects.
- 4. What is a target compound?
- 5. What are the limitations of CADD?
- 6. What is Tentagel? Give it's use.
- 7. How are the thiol groups protected in solid phase synthesis?
- 8. Give the structural details and mechanism of action of nitrogen mustards.
- 9. Comment on the role of hormones as anticancer agents.
- 10. Give the functions of sympathetic nervous system
- 11. What are adrenergic agonists? Give examples
- 12. What are the uses of enflurane?
- 13. What are benzodiazepins? Give any one example with structure.

 $(2 \times 10 = 20)$

Section B Answer any 5 (5 marks each)

- 14. What are prodrugs? How are they classified? Give examples.
- 15. Outline the use endogeneous compounds as drugs citing examples.
- 16. What do you mean by Taft's steric factor? Explain the parameters.
- 17. Write a note on CoMFA.
- 18. Give an account on combinatorial organic synthesis.
- 19. Give an accout on high throughput screening of libraries.
- 20. What are anticholinesterases? How are they classified? Give examples.
- 21. Write a note on oxazolidine diones which are used as anticonvulsant drugs.

Section C Answer any 2 (15 marks each)

- 22. Write short note on molecular modelling applications.
- 23. Write a note on antibiotics and plant products used as anticancer agents.
- 24. Give an account of adrenergic and cholinergic receptors
- 25. Write a note on analeptics. Explain their structure, classification and properties.

(15 x 2 = 30)