Reg. No ..... Name **18P419**

M Sc DEGREE END SEMESTER EXAMINATION - MARCH 2018

SEMESTER 4 : PHARMACEUTICAL CHEMISTRY

COURSE : **16P4CPHT14EL ; PHARMACEUTICAL CHEMISTRY - III**

(For Regular - 2016 admission)

Time : Three Hours Max. Marks: 75

Section A

Answer any 10 (2 marks each)

1. What do you mean by shelf life of a drug?
2. What are the factors affecting the dissolution of a drug
3. What is ELISA
4. What is RIA
5. Distinguish between hard and soft gelatin capsules?
6. Give an example for a sublingual and buccal medications?
7. Give an account of USP
8. What are the entitlement of a work to copyright?
9. Give the types of emulsion?
10. What do you mean by floculated suspension?
11. What is the function of a targeted drug delivery?
12. Explain the principle of separation of different components by liquid chromatography?
13. Explain the terms retention time, retention factor and selectivity factor in chromatography.

(2 x 10 = 20)

Section B

Answer any 5 (5 marks each)

14. Give an account of the general methods for increasing the solubility of a drug
15. Give an account of SPET
16. Give two disadvantages of suppositories? How are they prepared?
17. Give an account of phase III clinical trial
18. What are emulsifying agents? Describe its mechanism of action?
19. Write a note on properties of colloids?
20. What do you mean by drug overdose? How it can be reduced by a proper delivery system?
21. Explain the principle and applications of paper chromatography.

(5 x 5 = 25)

Section C

Answer any 2 (15 marks each)

22. Give an account of radiopharmaceutical in diagnostic and therapeutic procedures
23. Discuss the process and technique for the manufacture of tablet?
24. Explain briefly about complete specification of a patent.
25. Briefly explain the principle and procedure of Gas Chromatography. Discuss the different parts of a GC. Explain the principle of working of a detector used in GC. Give the applications.

(15 x 2 = 30)