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PL-MPH103T Seat No. _____

M. PHARM. (Sem. I) Examination

July - 2018

MPH 103 T : MODERN PHARMACEUTICS

Time : **3** Hours] [Total Marks : **75**

Instruction : Figures to the right indicate marks.

1 Answer the following questions : **10×2=20**

(a) Define validation with its application.

(b) Define cGMP and enlist its objectives.

(c) What do you mean by limit of detection and robustness?

(d) Explain student T-test.

(e) What do you mean by Mater Formula Record?

(f) What do you mean by coding in DOE?

(g) Explain similarity and dissimilarity factors.

(h) Define material management and enumerates the methods for purchasing.

(i) Define RSM, independent variables and dependent variables.

(j) Explain the types of validation.

2 Answer any **two** out of the following : **2×10=20**

(a) Write a detail note on statistical design and its application in formulation.

(b) Write a short note on compaction and compression along with its effect on various parameters.

(c) Write a note on drug excipient interaction study.

3 Answer any **Seven** out of the following : **7×5=35**

(a) Discuss the self inspection and quality audit proposed by FDA regarding maintenance of pharma. Mfg. unit.

(b) Explain about optimization techniques in pharmaceutical formulation.

(c) Write a brief note on theory of dispersion system.

(d) Write short note on SMEDDS.

(e) Write a note on validation of any one dosage form.

(f) Write a brief note on Inventory control.

(g) Explain dissolution and diffusion parameters.

(h) Give prototype sample of site master file and discuss each component of its in detail.

(i) Give a brief idea about production and planning control.