

Code: 17S07101

M.Pharm I Semester Regular Examinations February 2018

**ADVANCED PHARMACEUTICAL ANALYSIS**

(Common to PA&QC and PA)  
(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

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- 1 Discuss in detail about residual solvents with reference to classification and their limits.  
**OR**
- 2 Discuss in detail ICH guidelines for impurities in drug product.
- 3 Describe in detail different sources of elemental impurities. Comment on identification of elemental impurities.  
**OR**
- 4 Describe in detail C, H, N & S analysis.
- 5 Discuss in detail characterization of degradants in drug.  
**OR**
- 6 What is accelerated stability study? Comment on calculation of shelf life.
- 7 Describe principle and procedure for assay of rabies vaccine and adsorbed tetanus vaccine.  
**OR**
- 8 Discuss in detail stability testing of phytopharmaceuticals. Comment on WHO guidelines.
- 9 Discuss in detail optical immunoassay and radioimmunoassay.  
**OR**
- 10 Discuss Luminescence Immunoassay. Comment on production of antibodies.

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