Registration No : | | | | | | | | | | |

Total Number of Pages : 01 **M.Pharm.**
M.PH2G.6

2nd Semester Regular Examination 2017-18
ADVANCED PHARMACEUTICAL TECHNOLOGY
BRANCH : PHARMACEUTICAL TECHNOLOGY
Time : 3 Hours
Max Marks : 70
Q.CODE : C725
Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.
Answer all parts of a question at a place.

Q1 **Answer the following questions: *Short answer type :*** **(2 x 10)**

a) What is fluidization technique?
b) What is HEPA filter? How to determine its efficiency?
c) What is film coating? Give examples of aqueous coating materials.
d) What is metered dose inhaler?
e) Double cone blender is suitable equipment for mixing of lubricants with dried granules. True or false: Justify.
f) What is retrospective validation?
g) Name the statistical designs used in optimization of formulations.
h) Name the propellants used in development of aerosol dosage form.
i) Name the equipments used in manufacturing of suspensions and emulsions.
j) Name different type of dryers used in drying of granules.

Q2 **a)** Write in detail about recent developments in diluents used in the formulation of tablets. **(5)**
b) Discuss in detail about physics of tablet compression. **(5)**

Q3 Write in detail about improvements in equipments used for granulation technology. **(10)**

Q4 **a)** What is scale up of in formulation? Discuss briefly about effect of scale up on process parameters like mixing and granulation. **(5)**
b) Discuss critically about validation of solid dosage forms. **(5)**

Q5 Write in detail about advances in formulation and manufacturing of aerosols. **(10)**

Q6 Write about advances in materials and production techniques for parenteral dosage forms. **(10)**

Q7 **a)** Write in about application of statistical techniques in product development. **(5)**
b) Discuss about validation of analytical methods. **(5)**

Q8 **Write short notes on the following :**

a) Computerization for in process quality control of tablets **(2.5 x 4)**
b) Parts of tablet compression press
c) Microbiological testing of water
d) Types of validation