T.Y.B.PHARM. SEMESTER-VI (2011 Course) : SUMMER - 2019

SUBJECT : Dosage Form Design III

Day : Tuesday
Date : 30/04/2019

S-2019-4451

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 80

N.B.:

1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
2) Answers to both the sections should be written in **SEPARATE** answer books.
3) Draw neat and labeled diagram **WHEREVER** necessary.
4) Figures to the right indicate **FULL** marks.

SECTION – I

Q.1 Attempt **ANY FIVE** of the following: **(10)**

a) Give a layout of double filling injectible section.
b) Give the formula for dry powder for suspension.
c) What is nitrogen storage system?
d) What is D and Z value in sterilization process?
e) Explain with example effect of moisture on stability of drug.
f) What is clean in place and steam in place?
g) What is thermal death time?

Q.2 **a)** Discuss sterilization by filtration and radiation. **(08)**
b) Discuss various environmental zones. **(07)**

Q.3 **a)** Give a detailed account of various routes of parenteral administration. **(08)**
b) Comment on water treatment in a parenteral section. **(07)**

Q.4 Write notes on **ANY THREE:** **(15)**

a) Sterility testing.
b) Elimination and testing of pyrogens.
c) HVAC system.
d) Freeze dried products.
e) Formulation of sterile suspensions.

SECTION –II

Q.5 Answer **ANY FIVE** of the following: **(10)**

a) Give the formula for intraperitoneal dialysis fluid.
b) What are concentrated RBC's?
c) Give the formula of TPN.
d) What are sleeve stoppers?
e) Draw a neat diagram of an extrusion screw.
f) Give two examples of product packing incompatibility.
g) Give the composition of contact lens solution.

Q.6 **a)** Classify various blood products and discuss plasma substitutes. **(08)**
b) Discuss FFS technology in parenterals. **(07)**

Q.7 **a)** Give a detailed account on designing of elastomeric closures. **(08)**
b) Discuss formulation of multiple electrolyte preparation in LVP. **(07)**

Q.8 Write notes on (**ANY THREE**): **(15)**

a) Glass containers.
b) IV admixtures.
c) Insulin preparations.
d) Eye ointments.
e) QC of rubber closures.

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