Total No. of Questions : 6]

SEAT No. :

P1451

[Total No. of Pages : 2

[5049]-502
T.Y.B.Pharmacy
PHARMACEUTICAL ANALYSIS - III
(2013 Pattern) (Theory) (Semester - V)

Time : 3 Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Answers to the two sections should be written in seaprate answer books.***
3) ***Figures to the right indicate full marks.***

SECTION - I

Q1) Discuss about principle and theory of UV - visible spectrophotometric analysis. **[10]**

OR

Explain about instrumentation of spectrofluorimeter. **[10]**

Q2) Attempt any five of the following: **[15]**

a) Write about cuvettes used in UV Visible spectroscopy.

b) Classify different instrumental methods of analysis.

c) Explain atomic spectroscopy and molecular spectroscopy.

d) Explain about source used in flame photometry.

e) Explain properties of electromagnetic radiation.

f) Discuss about intersystem crossing.

g) Write about filters used in fluorimetric analysis.

Q3) Write a note on any two of the following: **[10]**

a) Instrumentation of Nephalometer.

b) Deviation from Beer's law.

c) Fuels and oxidants used in Atomic Absorption Spectroscopy.

d) A conventional diffraction grating.

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SECTION - II

Q4) Explain about instrumentation of Atomic Absorption Spectroscopy. **[10]**

OR

Discuss about instrumentation of flame photometry. **[10]**

Q5) Attempt any five of the following: **[15]**

a) Explain absorption of energy by molecule.

b) Explain the term fluorescence and phosphorescence.

c) Give an account on source used in Atomic Emission Spectroscopy.

d) Discuss about quenching of fluorescence.

e) Write advantages of Atomic Absorption spectrophotometry.

f) Explain excitation and emission spectra.

g) Discuss about filters used in UV Visible spectroscopy.

Q6) Write a note on any two of the following: **[10]**

a) Applications of fluorimetric analysis.

b) Types of transitions involved in organic molecule.

c) Theory of Atomic Emission Spectroscopy.

d) Factor affecting fluorescence and phosphorescence.