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**B.Pharm. (Semester – V) (New CBCS) Examination, 2018  
PHARMACEUTICAL ANALYSIS – III**

Day and Date : Friday, 14-12-2018  
Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 70

I. Multiple choice questions.

- 1) Which is the complimentary colour of red ?  
a) Yellow                      b) Blue                      c) Orange                      d) Green
- 2) Which of the following element is generally analysed by flame photometer ?  
a) Lithium                      b) Potassium                      c) Calcium                      d) All of these
- 3) Vierdot's method is popularly known as \_\_\_\_\_ method.  
a) Simultaneous Eqn.                      b) Q – ratio  
c) Absorption ratio                      d) Geometric correction
- 4) In Atomic Absorption Spectroscopy, with what material is the cathode in Hollow cathode lamp constructed ?  
a) Tungsten                      b) Quartz  
c) Element to be investigated                      d) Aluminium
- 5) Shifting of absorption maxima towards longer wavelength is termed as  
a) Bathochromic shift                      b) Hypsochromic shift  
c) Hyperchromic effect                      d) Hypochromic effect
- 6) In Atomic absorption spectroscopy, which of the following is the generally used radiation source ?  
a) Tungsten lamp  
b) Xenon mercury arc lamp  
c) Hydrogen or deuterium discharge lamp  
d) Hollow cathode lamp
- 7) According to the Beer-Lambert Law, absorbance is  
a) Inversely proportional to the concentration  
b) Directly proportional to the concentration  
c) Directly proportional to the transmittance  
d) Inversely proportional to the log of the concentration

P.T.O.





II. Answer **any five** of the following questions. **(5×5=25)**

- 1) Enlist various methods of assay of substances in multi component samples. Derive simultaneous equation method.
- 2) Explain factor affecting an intensity of fluorescence.
- 3) Enlist various burners used in flame photometry. Discuss any two.
- 4) Explain in detail electronic transitions in UV visible spectroscopy.
- 5) Explain quenching of fluorescence. Add a note on applications of fluorimetry.
- 6) Write the principle of Flame Photometry.

III. Answer **any three** of the following questions. **(10×3=30)**

- 1) Describe the Instrumentation of flourimetry with a neat labeled diagram.
  - 2) Explain the Instrumentation of Atomic Absorption Spectroscopy with a neat labeled diagram.
  - 3) Explain in brief the interferences and applications in Atomic Absorption Spectroscopy.
  - 4) State and derive Beer-Lambert's law. Explain deviations from Beers Law.
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