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(2064)

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B. Pharmacy (Ayurveda) 2nd Semester Examination

Pharmaceutical Chemistry (Inorganic) (O.S.)

Paper-II

Time : 3 Hours

Max. Marks : 90

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt any five questions.

1. (i) Give important contributions and defects of Mendeleev's Periodic Table. (9)
- (ii) Discuss about Aufbau principle, Pauli's exclusion principle and Hund's rule of maximum multiplicity. (9)
2. Write about occurrence, properties, reactions and important compounds of copper. (18)
3. Write the principle and method for assay of potassium permanganate and sodium chloride. Also give their method of preparation and uses. (18)
4. Write a detailed account of:
 - (i) Calcium chloride hydrate
 - (ii) Calcium gluconate
 - (iii) Calcium lactate (3×6=18)
5. Give the method of quantitation of arsenic in Ayurvedic preparations. (18)

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6. (i) Describe the methods of determining end point in non-aqueous titrations. (9)
- (ii) Give the method of preparation and standardization of 0.1N perchloric acid used in non-aqueous titration. (9)
7. (i) Name the types of EDTA titrations. Explain them in detail. (9)
- (ii) Explain the reactivity of heavy metals. (9)
8. (i) Name the method of determination of end point in precipitation titration. Explain them in detail. (9)
- (ii) Explain the method of preparation, assay and uses of aluminium hydroxide gel and zinc oxide. (9)