



Name :

Roll No. :

Invigilator's Signature :

CS/B. PHARM/SEM-1/PT-103/2011-12

2011

PHARMACEUTICAL CHEMISTRY

(Inorganic Chemistry)

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

1. i) Strong ammonia solution contains
 - a) 9.4 to 10.4% ammonia
 - b) 9.5 to 10.5% ammonia
 - c) 9.6 to 10.6% ammonia
 - d) 9.7 to 10.7% ammonia.
- ii) Dry ice is
 - a) Nitrous oxide snow b) Nitrogen snow
 - c) Carbon dioxide snow d) Helium snow.
- iii) Organic scintillator used in scintillation counter is
 - a) Anthracene b) Scintilla stilbene
 - c) 2, 4, 6 trinitro phenol d) Bromohexine.

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[Turn over



- c) How does buffer resist the change of pH after addition of small amount of acid and base ? Explain with example.
- d) Why is water considered as acid and base both ?
- e) Enumerate the role of buffer in pharmacy and pharmacy practice. $2 + 4 + 3 + 2 + 4$
8. Write down the preparations, properties & uses of any *three* of the following : 3×5
- a) Milk of Magnesia
- b) Potassium permanganate
- c) Calcium Carbonate I.P.
- d) Zinc oxide.
9. a) What are α , β & γ radiations ?
- b) What are the various biological effects of radiations ?
- c) Define the term "Curie" and "Becquerel".
- d) How does "Geiger Müller Counter" help in measurement of radioactivity ? $4 + 4 + 2 + 5$
10. a) What are antidotes ?
- b) Discuss the role of sodium nitrate as an antidote for cyanide poisoning.
- c) Give a general account of antioxidants.
- d) Discuss the antioxidant mechanism of hypophosphorus acid. $2 + 5 + 3 + 5$
11. a) Write down the difference between the following :
- i) Protectives and astringents
- ii) Calamine and calamine lotion
- iii) Cationic component and anionic component
- iv) Water and distilled water.
- b) Enumerate the role of fluoride in the prevention of dental caries. $(4 \times 3) + 3$