

PARUL UNIVERSITY
FACULTY OF PHARMACY
D. Pharm., November-2018 Examination

Semester: 1
Subject Code: 08600102
Subject Name: Pharmaceutical Chemistry-I

Date: 27/11/2018
Time: 10:00 am to 1:00 pm
Total Marks: 80

Instructions:

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)**(20)**

1. If 1g Compound is dissolved in 1 to 10ml solvent, then it is____
 - a) Very soluble
 - b) Freely soluble
 - c) Sparingly soluble
 - d) Practically insoluble
2. Dilute HCl is used as_____.
 - a) Acidifying agent
 - b) Antacid
 - c) Astringent
 - d) Antimicrobial
3. Chemical formula of Boric acid is_____.
 - a) H_3BO_3
 - b) Na_2SO_4
 - c) $Ca(OH)_2$
 - d) H_2SO_4
4. Which of the following is Antacid_____.
 - a) Titanium dioxide
 - b) Hydrochloric acid
 - c) Sodium bicarbonate
 - d) Iodine
5. Synonym of sodium hydroxide is_____.
 - a) Epsom salt
 - b) Spirit of salt
 - c) Caustic soda
 - d) Muriatic acid
6. _____ is used as emetic in narcotic poisoning.
 - a) Zinc sulphate
 - b) Magnesium sulphate
 - c) sodium hydroxide
 - d) magnesium carbonate
7. pH of Neutral solution is_____.
 - a) 6
 - b) 4
 - c) 7
 - d) 8
8. Complete the reaction: $ZnO+H_2SO_4\rightarrow______+H_2O$
 - a) ZnO
 - b) $ZnSO_4$
 - c) H_2O_2
 - d) O_2
9. $KMnO_4$ is_____.
 - a) Oxidising agent
 - b) Reducing agent
 - c) Complexing agent
 - d) precipitating agent.
10. Lugol's solution contain____% w/v of iodine.
 - a) 4
 - b) 5
 - c) 8
 - d) 9

11. Chlorinated lime is also known as____.
- a) Bleaching powder
b) Zinc sulphate
c) calcium dioxide
d) Calcium chloride
12. Potassium iodide is used as____.
- a) Expectorant
b) Stabilizer
c) Filtering aid
d) Astringent
13. ____is the example of Emollient.
- a) Coconut oil
b) Talc
c) Zinc oxide
d) Calcium Hydroxide
14. ____is the example of Dental products.
- a) Sodium flouride
b) Nitrous oxide
c) Kaolin
d) calcium chloride
15. Green vitriol is synonym of____.
- a) Alum
b) Ferrous sulphate
c) Magnesium sulphate
d) Sodium hydroxide
16. Methyl red is used in_____
- a) Redox titrations
b) Acid base titrations
c) Precipitation titrations
d) Complexometric titrations
17. Erichrome black T is used in_____titrations.
- a) Acid-base
b) complexometric
c) redox
d) precipitation
18. Synonym of Yellow mercuric oxide is____.
- a) Potash alum
b) Ammoniated mercury
c) Yellow precipitate
d) Mercuric oxide
19. Carbon dioxide is used as____.
- a) Inhalants
b) Astringents
c) antimicrobials
d) Protectives
20. G.M counter is used _____.
- a) Thermal detectors
b) Electron detectors
c) positive ion detectors
d) Radiation detectors

Q.2 Long Answers (any 8 out of 10) (05 Mark Each)

(40)

1. What are ideal requirement of antacids. Give preparation and uses of any one antacid.
2. Write a note on 1. Dental Products 2. Emetics
3. Classify antimicrobial agents with example and give the preparation and uses of silver nitrate.
4. Write assay and uses of Hydrogen Peroxide & properties and preparation of potassium permanganate.
5. Describe the limit test for iron.
6. Define Respiratory Stimulants. Give Chemical name, Structural formula, uses of Ammonium carbonate.
7. Give synonyms, Preparation, Assay, uses of Titanium dioxide.
8. What are topical agents? Write a brief note on zinc oxide.
9. Write detail note on "Electrolyte replenishers"
10. Write chemical formula, preparation, Properties and applications of sodium fluoride.

Q.3 Short Answers (2 Mark Each){ Answer any 10}

(20)

1. Define & explain: Antiseptic and disinfectant.
2. Define and give examples of Expectorants & Inhalants.
3. Give chemical formula of following compounds.
1. Oxygen 2. Phosphoric acid 3. Silver nitrate 4. Iodine

4. Write note on antioxidants.
5. Give the uses of following compounds.
1. Common salt 2. Chlorinated lime 3. Baking soda 4. Rochelle salt
6. Explain the following terms
1. Adsorbent 2. Emetics 3 Hygroscopic 4. Deliquescence
7. Define Astringents. Give Chemical formula, synonyms and uses of zinc sulphate.
8. Give chemical formula, synonyms and uses of Boric acid and Borax.
9. Write a short note on radiopharmaceuticals.
10. Write a note on catharatics.
11. Write the Preparation of following compound
1.Sodium thiosulphate 2.Sodium hydroxide 3.calcium gluconate 4.Kaolin
12. Classify inorganic compounds acting as gastrointestinal agents with examples.