

PARUL UNIVERSITY
FACULTY OF PHARMACY
D. Pharm., April-2019 Examination

Semester: 1**Date: 18/04/2019****Subject Code: 08600102****Time: 10:00 am to 1:00 pm****Subject Name: Pharmaceutical chemistry-I****Total Marks: 80****Instructions:**

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

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

- Which of the following is Antacid_____.
 a) Titanium dioxide
 b) Hydrochloric acid
 c) Sodium bicarbonate
 d) Iodine
- Dilute HCl is used as_____.
 a) Acidifying agent
 b) Antacid
 c) Astringent
 d) Antimicrobials
- If 1g Compound is dissolved in 1 to 10 ml solvent, then it is__
 a) Very soluble
 b) Freely soluble
 c) Sparingly soluble
 d) Practically insoluble
- Chemical formula of Boric acid is_____.
 a) H_3BO_3
 b) Na_2SO_4
 c) $Ca(OH)_2$
 d) H_2SO_4
- Synonym of sodium hydroxide is_____.
 a) Epsom salt
 b) Spirit of salt
 c) Caustic soda
 d) Muriatic acid
- _____ is Stimulant Laxative.
 a) Castor oil
 b) Magnesium oxide
 c) Magnesium sulphate
 d) Sodium sulphate
- Synonym of Antimony potassium tartarate is_____.
 a) Spirit of salt
 b) Tartar of Emetic
 c) Muriatic acid
 d) Magnesium oxide
- _____ is used as emetic in narcotic poisoning.
 a) Zinc sulphate
 b) Magnesium sulphate
 c) Sodium hydroxide
 d) Magnesium carbonate
- pH of Neutral solution is_____.
 a) 6
 b) 4
 c) 7
 d) 8
- Complete the reaction: $ZnO+H_2SO_4\rightarrow______+H_2O$
 a) ZnO
 b) $ZnSO_4$
 c) H_2O_2
 d) O_2
- $KMnO_4$ is_____.
 a) Oxidising agent
 b) Reducing agent
 c) Complexing agent
 d) Precipitating agent
- Lugol's solution contain____% w/v of iodine.
 a) 4
 b) 5
 c) 8
 d) 9
- Chlorinated lime is also known as_____.
 a) Bleaching powder
 b) Zinc sulphate
 c) Calcium dioxide
 d) Calcium chloride
- Potassium iodide is used as_____.
 a) Expectorant
 b) Stabilizer
 c) Filtering aid
 d) Astringent

15. _____ is the example of Emollient.
- | | |
|----------------|----------------------|
| a) Coconut oil | c) Zinc oxide |
| b) Talc | d) Calcium Hydroxide |
16. _____ is the example of Dental products.
- | | |
|--------------------|---------------------|
| a) Sodium flouride | c) Kaolin |
| b) Nitrous oxide | d) Calcium chloride |
17. Green vitriol is synonym of_____.
- | | |
|---------------------|-----------------------|
| a) Alum | c) Magnesium sulphate |
| b) Ferrous sulphate | d) Sodium hydroxide |
18. Methyl red is used in_____
- | | |
|-------------------------|------------------------------|
| a) Redox titrations | c) Precipitation titrations |
| b) Acid base titrations | d) Complexometric titrations |
19. Erichrome black T is used in_____ titrations.
- | | |
|-------------------|------------------|
| a) Acid-base | c) Redox |
| b) complexometric | d) Precipitation |
20. Alum is used as_____.
- | | |
|--------------------|-----------------|
| a) Astringents | c) Inhalants |
| b) Dental products | d) Expectorants |

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

(40)

1. Explain principle and procedure for limit test of chloride.
2. Give chemical formula, preparation and uses of Boric acid and Borax.
3. Give Preparation, Assay, uses of Zinc oxide and Titanium dioxide.
4. What do you understand by antibacterial agent? Explain its mechanism. Give principle and uses of silver nitrate.
5. Define dental products. Explain preparation, Properties and applications of sodium fluoride.
6. Write in detail about Hydrogen Peroxide.
7. What are antacids? Outline the ideal requirements of an antacid.
8. Write about potassium chloride and sodium chloride.
9. Define Adsorbent. Write chemical formula, preparation and uses of kaolin.
10. Define antidote. Write chemical formula, Preparation and uses of sodium nitrate.

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

(20)

1. Classify inorganic compounds acting as gastrointestinal agents giving examples.
2. Give the chemical name, structural formula and use of the following.
(i) Baking soda. (ii) Chlorinated lime. (iii) Epsom salt.
(iv) Green vitriol.
3. Define the following terms:
(i) Emetic (ii) Expectorants (iii) Suspending agent.
(iv) Preservative.
4. Give preparation of 5% w/v aqueous solution of iodine.
5. Write a note on inhalants.
6. Explain the following terms
1. Astringent 2 Hygroscopic 3. Cathartics 4. Radioactivity
7. Write Preparation of following 1. Sodium thiosulphate 2. Sodium hydroxide
8. What are topical agents ? Classify topical agents giving examples.
9. Write note on antioxidants
10. Write the storage condition
1. Oxygen 2. Phosphoric acid 3. Silver Nitrate 4. Iodine
- 11 Write a note on Respiratory Stimulants.
- 12 Define & explain: Antiseptic and Disinfectant.