

PCH-BP104T-Pharmaceutical Inorganic Chemistry-End Semester Makeup Exam-MCQ

Answer all the questions

* This form will record your name, please fill your name.

1. It is used as locally acting emetics
(1 Point)

- Morphine
- Sodium nitrite
- Ammonium bicarbonate
- Activated charcoal

2. Tragacanth is used in tooth paste as
(1 Point)

- Moistening agent
- Abrasive
- Thickener
- Flavouring agent

3. In the International System (**SI**), the unit of radioactivity is one nuclear transmutation per second and is expressed in
(1 Point)

- Roentgen
- Curie
- Becquerel
- All the above

4. Extracellular fluid comprises of
(1 Point)

- Intracellular and Interstitial fluid.
- Intercellular and Intracellular fluid
- Intracellular and vascular fluid.
- Vascular and interstitial fluid.

5. Which is not an oxidizing agent?
(1 Point)

- Ceric ammonium sulphate
- Sodium thiosulphate
- Hydrogen Peroxide
- Potassium permanganate

6. Is not an example of Redox indicator
(1 Point)

- Potassium Permanganate
- Eriochrome black T
- Ferroin
- Starch

7. Bleaching powder is assayed by evaluating in terms of available
(1 Point)

- fluorine
- iodine
- bromine
- chlorine

8. Titration of I_2 against thiosulfate is a standard laboratory technique. In connection to the given statement identify the correct one.

(1 Point)

- solutions of iodine are prepared in aqueous KI because iodine is insoluble in water
- No indicator is usually used in this titration
- Iodine is oxidized during the titration
- $[S_2O_3]^{2-}$ is reduced during the titration

9. Ringers solution contains

(1 Point)

- Sodium chloride, potassium chloride, calcium chloride
- Sodium chloride, potassium hydroxide, calcium hydroxide
- Calcium hydroxide, Sodium acetate, calcium chloride
- Sodium bicarbonate, calcium chloride, potassium acetate

10. Arsenic acid reacts with Mercuric chloride paper to form yellow colour stain which is due to the formation of

(1 Point)

- Mercury arsenic acid
- Mercury arsenide
- Mercury Arsenous acid
- Mercury arsenate

11. Hydroxyapatite is the mixture

(1 Point)

- carbonate, phosphate and hydroxides
 - Hydrogen, Calcium, carbonate
 - Calcium, hydrogen, phosphate
 - Calcium, carbonate, phosphate and hydroxides
-

12. Standard Lead nitrate solution used in Lead Limit test is of the strength
(1 Point)

- 10ppm
- 1ppm
- 1%
- 0.1%

13. The Standard Sodium Chloride solution used in Chloride Limit test is of concentration
(1 Point)

- 0.09%
- 0.0248%
- 0.0824%
- 0.0482%

14. Which of the following is a Lewis base?
(1 Point)

- Borontrifluoride
- Aluminium Chloride
- Trimethylborane
- Triethylamine

15. Hydrogen peroxide is used as
(1 Point)

- antiseptic
- protective
- acidifying agent
- antioxidant

16. One of the solvent below is of low toxicity
(1 Point)

- Acetonitrile
- Acetic acid
- Cyclohexane
- Carbon tetrachloride

17. Find the proportion of sucrose required to make a make a solution isotonic. The molecular weight of sucrose is 342g/mol.
(1 Point)

- 102.8g
 - 102.6g
 - 10.52g
 - 10.26g
-

18. Aluminiumhydroxide gel can be used in the treatment of
(1 Point)

- constipation
- severe dehydration
- diarrhoea and cholera
- cough

19. In Ammoniated Mercury following is one of the impurity
(1 Point)

- Ammonium hydroxide
- Sodium hydroxide
- Magnesium hydroxide
- Calcium hydroxide

20. It is an example of physiological antidote
(1 Point)

- Ethanol
- Morphine
- Methanol

- Activated charcoal

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**MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES**

MANIPAL

A constituent institution of Manipal University

B Pharm First Semester- End Semester Makeup Examination-2021

Course: PCH-BP104F: Pharmaceutical Inorganic Chemistry

Date: 28.07.2021

Duration: 3.05pm-4.35pm

Max. Marks: 30

Instructions:

1. Students have to switch on cameras of their systems.
2. Student should view QP before writing.
3. The answers should be written in the sequence of questions after writing the question asked. Students need to write their class, registration number, name, page number and signature with date on each page before uploading the answer file (Scanned pages of your answer sheets as a single pdf file) in MS Teams. Answer file name should be your register number.
4. Press turn in button after uploading answer file before Due time or Close time. Besides, the submission of the scripts is through MST only and the submissions through emails are not acceptable.
5. Note: System will not allow you to upload answer file after close time. Hence advised to submit before Due time preferably

Answer ALL the questions.

Questions

6Q × 5 Mark = 30 Marks

1. Give preparation and assay of an inorganic compound used in electrolyte replacement therapy.
2. Explain about class I methods for adjusting tonicity.
3. Explain with chemical equation the principle involved in the Limit test for Chlorides and sulphates for Salts of Organic compounds and Heavy Metals (3+2)
- 4A. With the help of a neat diagram, explain gutzzeit's apparatus. Explain the principle of Arsenic Limit test with chemical equations.
- 4B. Which are the inorganic impurities found in pharmaceuticals? What are the defects in the manufacturing process that can instill impurity? (3+2)
5. Write the preparation, assay principle and uses of systemic acidifier.
6. What are radio pharmaceuticals? Enlist the types of device used to measure the radioactivity.

