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BRAINWARE UNIVERSITY

Term End Examination 2021 - 22
Programme – Diploma in Pharmacy
Course Name – Pharmaceutical Chemistry- I
Course Code - 1.2T
(Year I)

Time allotted : 1 Hrs.35 Min.

Full Marks : 80

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 80=80

Choose the correct alternative from the following :

- (1) The first edition of I.P. was published in the year of-
 - a) 1947
 - b) 1945
 - c) 1955
 - d) 1954
- (2) pH of blood is-
 - a) 6.8
 - b) 7.8
 - c) 4.5
 - d) 7.4
- (3) As per I.P., refrigerated temperature is-
 - a) 0°C-4°C
 - b) 2°C-8°C
 - c) 0°C-8°C
 - d) None of these
- (4) The International Pharmacopoeia is published by-
 - a) CDSCO
 - b) MHRA
 - c) USFDA
 - d) WHO
- (5) Ammoniacal liniment acts as-
 - a) Vasodilator
 - b) Vasoconstrictor
 - c) Antimicrobial
 - d) None of these
- (6) The latest edition of I.P. was published in the year of-
 - a) 2017
 - b) 2018
 - c) 2008
 - d) 2019
- (7) Which of the following is a systemic antacid?
 - a) CaCO₃
 - b) KMnO₄
 - c) NaHCO₃
 - d) None of these
- (8) Units of radioactivity is-

- a) RAD
c) Rontgen
- (9) Lead acetate cotton used for the limit test of
a) Arsenic
c) Lead
- (10) Synonym of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ is-
a) Blue vitriol
c) Green vitriol
- (11) Ammonium chloride used as-
a) Systemic acidifiers
c) Diuretic
- (12) pH range of urine generally lies between-
a) 4 to 6
c) 6 to 8
- (13) The synonym of $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ is-
a) Blue Vitriol
c) White Vitriol
- (14) Example of iodophore
a) Strong solution of Iodine
c) Povidone iodine
- (15) Solubility of boric acid is increased by-
a) Hot water
c) Glycerol
- (16) Which one of following is the natural source of Hg
a) Kelp
c) Cannabar
- (17) Which one of the following alum is used as an indicator in volumetric titration?
a) Potash alum
c) Ammonium alum
- (18) Sodium potassium tartrate is used for-
a) Astringent
c) Saline cathertics
- (19) MgO is used as
a) Protective
c) Antacid
- (20) Which one of the following is a Lewis acid?
a) NH_3
c) CN^-
- (21) Zinc oxide is used in dusting powder as-
a) Anti-infective
c) Deodorant
- (22) Simethicone, used in antacid formulation
- b) Curie
d) All of these
- b) Heavy metals
d) Iron
- b) Epsom salt
d) Rochelle salt
- b) Expectorant
d) All of these
- b) 7 to 10
d) 4.5 to 8
- b) Mohr's salt
d) Green Vitriol
- b) Lugol's solution
d) All of these
- b) HCl
d) Alcohol
- b) Galena
d) Colemanit
- b) Ferric alum
d) All of these
- b) Protective & adsorbent
d) None of these
- b) Laxative
d) laxative and antacid
- b) NH_4^+
d) None of these
- b) Astringent
d) Astringent and topical protectant

- a) oil
c) alcohol
- (23) Conjugate acid has
a) Negative charge
c) Neutral
- (24) Magnesium sulphate is a
a) Saline cathertics
c) Adsorbent
- (25) Which one of the following is used as a surgical aid?
a) Barium chloride
c) Calcium phosphate
- (26) Limit test are performed in
a) Flark
c) Nessler cylinder
- (27) Purified water is prepared by
a) Distillation
c) Ion exchange resin
- (28) Sodium metal is stored in
a) Well closed container
c) In kerosene , kept in well closed container
- (29) Which one of the following is used as anti-caking agent for hygroscopic powders?
a) Colloidal silicon dioxide
c) Magnesium sulphate
- (30) Which of the following is used as preservative?
a) Sodium benzoate
c) Sodium Metabisulphite
- (31) Sulpher is used as
a) Astringent
c) Protective
- (32) The combination of zinc oxide and phosphoric acid is used for
a) Abrasion purposes in tooth paste
c) Prevention of dental infection
- (33) In the limit test for sulphate, hydrochloric acid is added to -
a) Decrease the solubility of barium sulphate
c) Prevent the precipitation of barium carbonate
- (34) Standard solution of arsenic contain
a) Arsenious acid
c) Arsenic acid
- (35) Backing soda is a common name for
a) Sodium carbonate
c) Potassium carbonate
- (36) Aluminium hydroxide gel I.P. contains
- b) silicone
d) none of these
- b) Positive charge
d) None of these
- b) Antacid
d) Antidiarrheal
- b) Plaster of Paris
d) None of these
- b) Test tube
d) None of these
- b) Filtration
d) All of these
- b) Is either kept in well closed container
d) In water, kept in well closed container
- b) Light magnesium oxide
d) Boric acid
- b) Sodium salicylate
d) None of these
- b) Scabicide
d) All of these
- b) Filing dental cavities
d) None of these
- b) Enhance the reaction of barium chloride
d) None of these
- b) Arsine
d) Arsenic oxide
- b) Sodium bicarbonate
d) Sodium citrate

- a) Aluminium hydroxide
c) Hydrated aluminium oxide
- b) Aluminium oxide
d) Hydrated aluminium oxide with little aluminium carbonate/bicarbonate
- (37) Prepared chalk is
a) Calcium oxide + calcium carbonate
c) Calcium carbonate
- b) Calcium carbonate + calcium chloride
d) None of these
- (38) Epsom salt is a common name for-
a) Sodium sulphate
c) Potassium sulphate
- b) Magnesium sulphate
d) None of these
- (39) Gelusil is common brand name for antacid containing
a) $\text{Al}(\text{OH})_3$ and $\text{Mg}(\text{OH})_2$
c) Aluminium hydroxide gel and magnesium sulphate
- b) $\text{Al}(\text{OH})_3$ gel and magnesium trisilicate
d) None of these
- (40) Which one of the anion is most abundant in human body?
a) Chloride
c) Bicarbonate
- b) Carbonate
d) Citrate
- (41) Calcium gluconate is used as
a) Antacid
c) Preservatives
- b) Electrolyte replenisher
d) Astringen
- (42) Which one of the following is used in metabolic alkalosis?
a) Sodium chloride
c) Ammonium chloride
- b) Sodium bicarbonate
d) Potassium citrate
- (43) Green vitriol is
a) Copper sulphate
c) Ferrous sulphate
- b) Magnesium sulphate
d) Sodium sulphate
- (44) Titrant used in the assay of ferrous sulphate IP 1996 is
a) Potassium permanganate
c) Sulphuric acid
- b) Ceric ammonium sulphate
d) None of these
- (45) Which one of these titrant is used in the assay of ferric ammonium citrate
a) KMnO_4
c) Ceric ammonium sulphate
- b) Sodium thiosulphate
d) Iodine
- (46) Zinc chloride is used as -
a) Antibacterial
c) Preservatives
- b) Astringent
d) None of these
- (47) Tincture of iodine is -
a) Strong iodine solution
c) Weak iodine solution
- b) Aqueous iodine solution
d) None of these
- (48) According to I.P. 1996, ammonium chloride is assayed by-
a) Precipitation titration
c) Acid-base titration
- b) Gravimetric method
d) None of these
- (49) Titrant used in the assay of potassium iodide is-
a) Potassium iodate
c) Hydrochloric acid
- b) Sodium thiosulphate
d) Arsenic trioxide

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- a) pH maintenance
c) Nitrate supplement
- b) Sodium supplement
d) Anticoagulant
- (64) Which one of these Antimicrobial?
a) KMnO_4
c) Sodium nitrite
- b) Sodium sulphate
d) Silver nitrate
- (65) The hydroxylamine-Hcl is used in the limit test for lead as-
a) Buffering agent
c) Reacting agent
- b) Antioxidant
d) All of these
- (66) Sodium chloride in O.R.S is used as-
a) Electrolyte
c) Buffering agent
- b) Isotonic agent
d) None of these
- (67) Barium sulphate is used as-
a) X-ray detector
c) Electrolyte replimisher
- b) diagnostic acid
d) None of these
- (68) Which of the following is the correct dissociation constant of pure water at 25°C ?
a) 2.2×10^{-14}
c) 1.0×10^{-14}
- b) 1.0×10^{-16}
d) 1.1×10^{-14}
- (69) Which of the following component belongs from the class of Zeolite?
a) Sodium carbonate
c) Aluminium silicate
- b) Calcium carbonate
d) Sodium meta aluminate
- (70) $E^{\circ}_{\text{red}} = -0.0591/n \log[\text{oxidation}]/[\text{reduction}]$ -this equation is related to
a) Bolt's equation
c) Bohr's equation
- b) Nernst equation
d) Plank equation
- (71) Which of the following statement is not right?
a) Antioxidant should be non toxic
c) Antioxidants should not dissolve easily
- b) Antioxidant should be chemically and physiologically compatible
d) Antioxidants should be chemically inert
- (72) calomel(mercurous chloride) acts as a-
a) saline carthartics
c) laxative
- b) purgative
d) antacids
- (73) Which of the following is not a strong acid?
a) H_2SO_4
c) H_3BO_3
- b) CH_3COOH
d) CH_3COOH and H_3BO_3
- (74) Which of the following could be best appropriate pH of an acidic buffer solution?
a) 8
c) Less than 7
- b) 7
d) 7 and less then 7
- (75) The pH of a buffer solution remains constant when _____ is added.
a) Strong acid and weak base
c) Strong acid and strong base
- b) Weak acid and strong base
d) Weak acid and weak base
- (76) Which of the following official buffer solution is used as eye and mouthwash?
a) Hydrochloride acid
c) Sodium hydroxide
- b) Boric acid
d) Strong ammonium hydroxide

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(77) Expectorants are the drugs that helps in removing _____ from respiratory tract.

- a) sputum
- b) sweat
- c) sebum
- d) none of these

(78) KMnO_4 can be used as -

- a) anti infective
- b) antipyretics
- c) antiseptic
- d) anti infective and antipyretics

(79) A white precipitate of zinc sulfide is formed when zinc sulfate reacts with

- a) hydrogen sulfide
- b) sodium zincate
- c) sodium ferrocyanide
- d) none of these

(80) Pyrogallol group antioxidant is

- a) methyl gallate
- b) phenyl gallate
- c) amyl gallate
- d) oxalate

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