



RRB PHARMACIST

SUCCESS KIT

BOOK AUTHOR

MR. UTSAV VERMA

MR. DHALENDRA KOTHALE

7000+
TOTAL
MCQS



30
MODEL
PAPERS

1500+
SUBJECT
WISE

2000+
MCQS TOPIC WISE
ONLINE TEST
SERIES

**SPECIAL
FOCUSED ON
NON-PHARMA**

**PREVIOUS
YEAR
PAPER**

7000+
MCQS



AS PER THE RRB EXAM PATTERN

RRB PHARMACIST

SUCCESS KIT

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CENTRAL RAILWAY PHARMACIST



PHARMACY INDIA PUBLICATION

PREFACE

The "RRB Pharmacist Success Kit" is designed to be your comprehensive guide to excelling in the Railway Recruitment Board (RRB) Pharmacist Examination. This book has been meticulously crafted by experts to align strictly with the RRB exam pattern, ensuring that you are well-prepared for every aspect of the test.

Inside this Success Kit, you will find 30 Model Papers are tailored to simulate the actual RRB Pharmacist exam experience. By practicing with these papers, you can familiarize yourself with the exam format, time constraints, and the types of questions you will encounter. RRB Pharmacist Previous Year Papers (PYQs) analyzing and solving these papers is crucial for understanding the exam's recurring patterns and frequently asked questions. This section will help you gain insights into the examiners' mindset and refine your strategy accordingly. Subject-wise objective type questions covers all the essential subjects and topics relevant to the RRB Pharmacist exam. Each question is designed to test your knowledge, accuracy, and speed, ensuring a thorough preparation.

The objective of this book is to provide you with a structured and efficient study resource that enhances your preparation and boosts your confidence. The carefully selected questions and model papers are intended to challenge your understanding and improve your problem-solving skills.

We believe that diligent practice and thorough understanding are the keys to success in any competitive examination. With the "RRB Pharmacist Success Kit," you have a powerful tool to help you achieve your goals and secure a position as an RRB Pharmacist.

Authors

RAILWAY PHARMACIST SYLLABUS

Pharma Subjects
1. Pharmaceutics
2. Pharmaceutical Chemistry
3. Pharmacognosy
4. Biochemistry And Clinical Pathology
5. Human Anatomy and Physiology
6. Health Education and Community Pharmacy
7. Pharmacology & Toxicology
8. Pharmaceutical Jurisprudence
9. Drug Store and Business Management
10. Hospital and Clinical Pharmacy
Non-Pharma Subjects
1. General Awareness
2. General Intelligence & Reasoning
3. General Arithmetic
4. General Science

PHARMACEUTICS

1. Introduction to Pharmacopoeias
2. Metrology
3. Packaging of pharmaceuticals
4. **Unit Operations** - Size Reduction, Size Separation, Mixing and Homogenization, Clarification and Filtration, Extraction and Galenicals, Distillation, Drying.
5. Sterilization
6. Study of immunological products like sera, vaccines, toxoids & their preparations.
7. **Dispensing Pharmacy:** Prescriptions, Incompatibilities in prescriptions, Posology.
8. **Dispensed Medications**
 - (I) **Solid Dosage Forms:** Powders, Tablets, Capsules
 - (II) **Liquid oral Dosage Forms:**
 - a. **Monophasic** - Mixtures and concentrates, Syrups, Elixirs, Gargles, Mouthwashes, Throat-paints, Douches, Ear Drops, Nasal drops/sprays, Liniments, Lotions.
 - b. **Biphasic Liquid Dosage Forms:** Suspensions, Emulsions.
 - (III) **Semi-Solid Dosage Forms:** Ointments, Pastes, Jellies, Suppositories and pessaries.
9. **Dental and cosmetic preparations**
10. **Sterile Dosage forms:** Parenterals, Ophthalmic products.

PHARMACEUTICAL CHEMISTRY

1. (A) **Acids, bases and buffers:** Boric acid, Hydrochloric acid, Strong Ammonium hydroxide, Calcium hydroxide, Sodium hydroxide and official buffers.

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MODEL PAPER -1

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
- Each Questions carry 1 Marks and 0.25 Negative Marking
- Total time for this Question Paper is 90 Minutes
- This Question paper divided into two parts 70 Questions from Pharmacy and 30 Questions from Non-Pharma as per Direction by RRB.

- 1. Caustic soda is**
(a) Sodium hydroxide (b) Sodium chloride
(c) Sodium carbonate (d) Sodium bicarbonate
- 2. Which among the following preparation is used as a source of iodine in iodine deficiency ?**
(a) Weak iodine solution
(b) Strong iodine solution
(c) Aqueous iodine solution
(d) Iodine tincture
- 3. In the assay of boric acid, glycerin is added to boric acid to**
(a) Dissolve boric acid (b) Increase basicity
(c) Increase acidity (d) Decrease acidity
- 4. In cyanide poisoning, sodium nitrite is used as an antidote along with which compound?**
(a) Sodium metabisulphite
(b) Sodium thiocyanate
(c) Potassium iodide
(d) Sodium thiosulphate
- 5. An antiseptic solution generally used for cleaning wounds and ears is**
(a) Hydrogen peroxide solution
(b) Lugol's solution
(c) Ammonia solution
(d) Potassium permanganate solution
- 6. Drugs which help in eliminating exudations from bronchi are known as**
(a) Emetics (b) Expectorants
(c) Astringents (d) Cathartics
- 7. Calcium gluconate is assayed by**
(a) Acid-base titration
(b) Redox titration
(c) Complexometric titration
(d) Non-aqueous titration
- 8. Chlorinated lime and boric acid solution is known as**
(a) Eusol (b) Lysol
(c) Lugol's solution (d) Dakin's solution
- 9. Bleaching powder is**
(a) Chlorinated lime (b) Soda lime
(c) Sodium bicarbonate (d) Calcium carbonate
- 10. Nutritional deficiency of calcium leads to**
(a) Hypercalcaemia (b) Hypokalemia
(c) Hypocalcaemia (d) Hyponatremia
- 11. In radiation sterilization, the gamma rays were obtained from**
(a) Cobalt-60 (b) Iodine - 131
(c) Gold-198 (d) Selenium-8
- 12. Which among the following method is used for the sterilization of surgical dressings?**
(a) Dry heat sterilization
(b) Moist heat sterilization
(c) Gaseous sterilization
(d) Radiation sterilization
- 13. Which among the following method represent the chemical cold sterilization method?**
(a) Sterilization using gases
(b) Sterilization by filtration
(c) Sterilization using radiation
(d) Sterilization using moist heat
- 14. The membrane filters used for sterilization has the pore size of**
(a) $0.02 \pm 0.01 \mu\text{m}$ (b) $0.22 \pm 0.02 \mu\text{m}$
(c) $0.11 \pm 0.01 \mu\text{m}$ (d) $0.65 \pm 0.02 \mu\text{m}$
- 15. The optimum moisture content of the capsule shell is ranged between**
(a) 12-15% (b) 2-6%
(c) 8-12% (d) 18-22%
- 16. The unequal distribution of colour on the surface of the tablet is known as**
(a) Orange-peel effect (b) Twinning
(c) Bloom (d) Mottling
- 17. Which among the following material is used for enteric coating of tablet?**
(a) Cellulose acetate phthalate
(b) Hydroxypropyl methyl cellulose
(c) Methylhydroxy ethyl cellulose
(d) Polyethylene glycols
- 18. The flow properties of the granules from hopper to die of the tablet machine is improved by the addition of**
(a) Disintegrants (b) Binders

- (a) Visible Light (b) X-rays
(c) Ultraviolet Rays (d) Radio Waves
88. **The first captain of the Indian Cricket team for One Day International was**
(a) Ajit Wadekar (b) Sunil Gavaskar
(c) Kapil Dev (d) C K Nayudu
89. **Which of the following is NOT a Greenhouse Gas?**
(a) Nitrous Oxide (b) Methane
(c) Sulphur Hexafluoride (d) Copper Dioxide
90. **On which festival did the Jallianwala Bagh Massacre take place?**
(a) Baisakhi (b) Guru Nanak Jayanti
(c) Diwali (d) Holi
91. **In the Republic of India, the administrative head of a Union Territory is-**
(a) Lieutenant Governor (b) Governor
(c) President (d) Prime Minister
92. **The Jayakwadi Project, which is one of the largest irrigation projects is on the river-**
(a) Godavari (b) Narmada
(c) Krishna (d) Tapi
93. **Which of the following is the largest glacier in India?**
(a) Gangotri Glacier
(b) Drang Drung Glacier
(c) Siachen Glacier
(d) Shafat Glacier
94. **Which was the first women's sport to be introduced in the Olympics?**
(a) Gymnastics (b) Volleyball
(c) Golf (d) Badminton
95. **A wire when bent in the form of a square encloses an area of 484 sq. cm. If the same wire is bent in the form of a circle, what is the area enclosed by it?**
(a) 264 sq. cm (b) 616 sq. cm
(c) 488 sq. cm (d) 492 sq. cm
96. **What will Rs. 40,000 amount to in 2 years at the rate of 20% p.a., if interest is compounded yearly?**
(a) Rs. 48,620 (b) Rs. 58,564
(c) Rs. 57,600 (d) Rs. 60,000
97. **A train crosses a stationary object in 10 seconds. What is the length of the train if the speed of the train is 25 m/s?**
(a) 300 m (b) 250 m
(c) 320 m (d) 200 m
98. **Google, in partnership with the Railway's telecom wing RailTel, introduced the first public Wi-Fi service at the _____ railway station.**
(a) Trivandrum Central (b) Mumbai Central
(c) Howrah Station (d) Kanpur Central
99. **If the pH value of a substance is lower than 7, it would be considered as-**
(a) Neutral (b) Base
(c) Acid (d) Ion
100. **In which state is the World Heritage Site 'Basilica of Bom Jesus' located?**
(a) Goa (b) Andhra Pradesh
(c) Tamil Nadu (d) Kerala

Answer Key									
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1-a	2-c	3-c	4-d	5-a	6-b	7-c	8-a	9-a	10-c
11-a	12-b	13-a	14-b	15-a	16-d	17-a	18-c	19-a	20-d
21-d	22-b	23-c	24-b	25-a	26-a	27-b	28-d	29-c	30-d
31-c	32-a	33-c	34-d	35-b	36-a	37-b	38-c	39-d	40-a
41-a	42-c	43-a	44-a	45-d	46-a	47-b	48-c	49-a	50-d
51-a	52-a	53-b	54-d	55-c	56-b	57-a	58-c	59-d	60-c
61-d	62-c	63-b	64-b	65-d	66-c	67-c	68-c	69-a	70-c
71-c	72-a	73-c	74-a	75-c	76-b	77-a	78-b	79-a	80-c
81-a	82-a	83-a	84-c	85-b	86-b	87-b	88-a	89-d	90-a
91-a	92-a	93-c	94-c	95-b	96-c	97-b	98-b	99-c	100-a

MODEL PAPER -5

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
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- Tuberculosis is diagnosed by:**
(a) Widal Test (b) ELISA Test
(c) Mantoux test (d) Alerts Method
- The salt used in the X-ray studies of the gastrointestinal tract is:**
(a) Barium sulfate
(b) Bismuth Sub-nitrate
(c) Thorium dioxide
(d) Titanium dioxide
- An example of sulfonyl urea is:**
(a) Metformin (b) Tolbutamide
(c) Rosiglitazone (d) Repaglinide
- An antimalarial obtained from natural source is:**
(a) Strychnine (b) Brucine
(c) Reserpine (d) Quinine
- Yeast come under a group of:**
(a) Bacteria (b) Fungi
(c) Protozoa (d) Virus
- Ranitidine is a:**
(a) H₂ Antagonist
(b) H₁ antagonist
(c) Beta adrenergic antagonist
(d) Alpha adrenergic antagonist
- The component of tablet machine which controls the shape and size of the tablet is:**
(a) Hopper (b) Punches
(c) Cam Track (d) Dies
- Pilocarpine is an alkaloid containing:**
(a) Pyrazole (b) Imidazole
(c) Oxazole (d) Pyrrole
- Spherical shaped bacteria are termed as:**
(a) Bacilli (b) Cocci
(c) Spirochaetes (d) Vibrios
- Which of the following is a female sex hormone:**
(a) Stilbesterol (b) Testosterone
(c) Estrogen (d) Benzesterol
- One among the following is a volatile oil containing crude drug:**
(a) Chirata (b) Cardamom
(c) Linseed (d) Myrobalan
- A non-drug part added to the formulation to aid dilution, stability maintaining, taste masking etc. is known as:**
(a) Preservative (b) Active Ingredient
(c) Additive (d) Binding agent
- The condensation of chromatin and shrinkage of the nucleus leading to cell death is termed as:**
(a) Karyorrhexis (b) Pyknosis
(c) Karyolysis (d) Autophagy
- An amino acid considered as a lipotropic factor is:**
(a) Methionine (b) Tryptophan
(c) Histidine (d) Serine
- Which among the following is antidandruff drug?**
(a) Zinc Sulphate (b) Selenium Sulfide
(c) Zinc Carbonate (d) Sodium Fluoride
- Emetine is the main ingredient of:**
(a) Ipecac (b) Isabgol
(c) Pyrethrum (d) Rhubarb
- Parasympathomimetic drugs cause:**
(a) Bronchodilation (b) Mydriasis
(c) Bradycardia (d) Constipation
- Which of the following is a catecholamine:**
(a) Thyroxine (b) Melanin
(c) Tyramine (d) Dopamine
- Which of the following hormones inhibits the secretion of insulin, glucagon and growth hormone?**
(a) Somatostatin (b) Thyroxin
(c) Melatonin (d) Serotonin
- Tropane alkaloids can be identified by:**
(a) Thalloquin test (b) Vitali test
(c) Biuret test (d) Millon's test
- mRNA is synthesized in the nucleus as:**
(a) tmRNA (b) snRNA
(c) scRNA (d) hnRNA
- Which of the following agents is used as an inhalation drug in asthma?**
(a) Atropine (b) Ipratropium

MODEL PAPER -8

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

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- The ortho-toluidine test is performed for assessing the effectiveness of:**
(a) Chlorination
(b) Organic purification
(c) Sewage treatment
(d) Water purification
- Indicate a reversible cholinesterase inhibitor**
(a) Isoflurophal (b) Carbochol
(c) Physostigmirie (d) Parathion
- Kala Azar is a type of:**
(a) Giardiasis (b) Leishmaniasis
(c) Helminthiasis (d) Schistosomiasis
- Respiratory distress syndrome in premature infants is caused by the absence of:**
(a) Cephaline
(b) Lecithine
(c) Phosphatidyl serine
(d) Myoinositol
- Indicate the skeletal muscle relaxant, which is a depolarizing agent**
(a) Vencuronium (b) Scopolamine
(c) Succinylcholine (d) Hexamethonium
- Which of the following is not a waste product c protein metabolism?**
(a) Urea (b) Ammonia
(c) Creatinine (d) Uric acid
- mRNA is synthesised in the nucleus as:**
(a) tmRNA (b) snoRNA
(c) scRNA (d) hnRNA
- Blood plasma and blood serum preparations are dried by;**
(a) Freeze dryer (b) Vacuum dryer
(c) Spray dryer (d) Fluidized bed dryer
- The adipose tissue in new-borns is called:**
(a) Yellow Fat (b) White Fat
(c) Black Fat (d) Brown Fat
- Lipid derived autocooids are all EXCEPT**
(a) Leukotrines
(b) Histamine
(c) Prostaglandins
(d) Platelets activating factor
- The rod shaped bacteria are:**
(a) Coccus (b) Spirilla
(c) Bacillus (d) Vibrios
- The disease that is completely eradicated from India through systematised immunisation programme is:**
(a) Diphtheria (b) Small Pox
(c) Whooping Cough (d) Leprosy
- First pass effect is seen with which route of administration?**
(a) Oral (b) Intramuscular
(c) Sublingual (d) Intravenous
- Amantadine is the drug used as:**
(a) Antibacterial (b) Antiviral
(c) Antifungal (d) Antiprotozoal
- The protein-DNA complex in higher organisms is called:**
(a) Transferrin (b) Chromatin
(c) Interferon (d) Dystrophin
- One among the following is a volatie oil containing crude drug:**
(a) Chirata (b) Cardamom
(c) Linseed (d) Myrobalan
- Drugs suppressing nausea and vomiting are:**
(a) Anti-emetic (b) Anti-diarrheal
(c) Anti-ulcer (d) Antiseptic
- Which factor is more decisive in the choice of a drug?**
(a) Potency (b) Efficacy
(c) Toxicity (d) all equally
- Which one of the following groups is responsible for the duration of the local anesthetic action?**

87. Simplify $5x(x+2)+4x$.
 (a) $5x^2+10$ (b) $9x+10$
 (c) $5x^2-14x$ (d) $5x^2+14x$
88. In a computer, what is the name of the high speed memory used:
 (a) Cache (b) RAM
 (c) BIOS (d) Hard Disk
89. A shopkeeper cheats to the extent of 11% while buying and selling fruits, by using tampered weights. His total gain in percentage is.
 (a) 23.25 (b) 23.21
 (c) 23.75 (d) 23.5
90. The cash difference between the selling price of an article at a profit of 2% and 18% is Rs3. The ratio of two selling prices is.
 (a) 51:59 (b) 51:53
 (c) 51:60 (d) 55:59
91. The value of $0.592 \div 0.8 = ?$
 (a) 7.4 (b) 0.74
 (c) 740 (d) 0.074
92. Laura was going with a boy and is asked by a woman about the relationship between them. Laura replied, "My maternal uncle and the uncle of his maternal uncle is the same". How is Laura related with that boy?
 (a) Mother and Son
 (b) Aunt and Nephew
 (c) Grandmother and Grandson
 (d) Cannot be determined
93. Which of the following is a tsunami warning sign?
 (a) Stormy weather
 (b) Hailstorm
 (c) Water falling back quickly from the beach.
 (d) Pets acting strangely
94. Answer the questions based on the below information. If '+' is 'x', '-' is '+', 'x' is '÷' and '÷' is '-'. Then $6+7x 3-8 \div 20 = ?$
 (a) -3 (b) 7
 (c) 2 (d) 1
95. The most abundant of the rare gases is?
 (a) Helium (b) Argon
 (c) Neon (d) Nitrogen
96. The Indian National Army reclaimed the Andaman and Nicobar Island from British rule and named them?
 (a) Swaraj Islands
 (b) Shaheed and Swaraj Island
 (c) Free Islands
 (d) Swatantra and Swaraj Island
97. A protruding part of the throat that is responsible for growing voice box in boys is called?
 (a) Larynx (b) Testosterone
 (c) Pharynx (d) Adam's Apple
98. Which country won the FIFA World cup 2022?
 (a) France (b) Nigeria
 (c) UAE (d) Argentina
99. Mr. Mahesh sold a bus for Rs. 22,100 with a loss of 15%. At what price should the bus be sold to get a profit of 15%?
 (a) 29,700 (b) 30,000
 (c) 29,800 (d) 29,900
100. The basic concept of Montessori education is:
 (a) Discovery by travelling
 (b) Dreaming
 (c) Communicating
 (d) Self-discovery through experimen

Answer Key

1-a	2-d	3-a	4-b	5-c	6-d	7-c	8-c	9-b	10-d
11-a	12-c	13-b	14-d	15-b	16-d	17-a	18-a	19-d	20-c
21-b	22-b	23-d	24-d	25-c	26-a	27-b	28-d	29-b	20-b
31-a	32-c	33-d	34-a	35-c	36-b	37-a	38-c	39-d	40-c
41-c	42-a	43-c	44-c	45-b	46-d	47-d	48-a	49-a	50-a
51-c	52-b	53-d	54-b	55-a	56-a	57-c	58-d	59-c	60-a
61-c	62-b	63-b	64-d	65-a	66-b	67-d	68-d	69-c	70-d
71-c	72-a	73-d	74-d	75-c	76-d	77-d	78-b	79-c	80-b
81-b	82-d	83-d	84-c	85-a	86-b	87-d	88-a	89-b	90-a
91-b	92-b	93-c	94-c	95-b	96-b	97-d	98-d	99-d	100-d

MODEL PAPER -14

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
- Each Questions carry 1 Marks and 0.25 Negative Marking
- Total time for this Question Paper is 90 Minutes
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- The ability of the firm to meet its current liability is measured by:**
(a) Solvency ratio (b) Liquidity ratio
(c) Activity ratio (d) Profitability ratio
- Drugs which increases respiratory tract fluid is called:**
(a) Expectorant (b) Linctuses
(c) Laxatives (d) Syrups
- Precursor glycoside of digitoxin:**
(a) Purpurea glycoside A
(b) Purpurea glycoside B
(c) Lanatoside A
(d) Lanatoside B
- Storage condition for dried plasma**
(a) In a cool place
(b) In a well closed container
(c) At a temperature not exceeding 25°C
(d) Between 2°C and 10°C
- Aloe contains barbaloin which is a**
(a) C-glycoside (b) S-glycoside
(c) D-glycoside (d) H-glycoside
- An example of cholinomimetic alkaloid is:**
(a) Pilocarpine (b) Methacholine
(c) Neostigmine (d) Carbachol
- Beta-blocker with membrane stabilizing activity:**
(a) Propranolol (b) Timolol
(c) Atenolol (d) Esmolol
- A journal is a book of:**
(a) Original entry
(b) Secondary entry
(c) Cash transaction
(d) Petty cash transaction
- A resin of animal origin:**
(a) Benzoin (b) Shellac
(c) Glycoresin (d) Gujuresinol
- All the particles pass through a sieve No.44 and not more than 40% through a sieve No.85 called as:**
(a) Coarse particles
(b) Moderately coarse particles
(c) Moderately fine particles
(d) Fine particle
- Plant constituent used in the preparation of mosquito coils**
(a) Rauwolfia (b) Ergot
(c) Pyrethrum (d) Aconite
- Plant constituent used in the preparation of mosquito coils**
(a) Rauwolfia (b) Ergot
(c) Pyrethrum (d) Aconite
- Richest source of Lecithin:**
(a) Meat (b) Egg yolk
(c) Fish (d) Milk
- Mevalonic acid formation is catalyzed by the enzyme:**
(a) Acetyl COA
(b) Mevalonate kinase
(c) HMG CoA reductase
(d) Phosphomevalonate
- Enzyme referred as spreading factor:**
(a) Heparin (b) Chondroitin
(c) Hyaluronidase (d) Iduronic acid
- The ex-officio member of the Pharmacy Council of India is**
(a) Teacher in Pharmacology
(b) A member from MCI
(c) A representative of UGC
(d) Director of CDL
- Casein is an example of**
(a) Nucleoproteins (b) Phosphoproteins
(c) Chromoproteins (d) Lipoproteins
- Immunoglobulin found on lymphocyte surface of newborn**
(a) IgD (b) IgA
(c) IgM (d) IgG
- Antigenic preparation made from extracellular toxins:**

95. Rearrange the jumbled up letters in their natural sequence and find the odd one out.
 (a) LAFC (b) UKCGIDLN
 (c) RILNIGHE (d) BCU
96. Sita starts to calculate sum of all odd natural numbers less than 72. What result does she get?
 (a) 1196 (b) 1296
 (c) 1331 (d) 1276
97. On an average how many times does lighting strike the Earth?
 (a) 100 times per second
 (b) 100 times per day
 (c) 1000 times per day
 (d) 100 times per hour
98. An Assertion (A) and a Reason (R) are given below.
Assertion (A): We feel comfortable in hot and humid climate.

Reason (R): Sweat evaporates faster in humid climate.

Choose the correct option.

- (a) A is true but R is false.
 (b) A is false but R is true.
 (c) Both A and R are true and R is the correct explanation of A.
 (d) Both A and R are false

99. Rearrange the jumbled-up letters in their natural sequence and find the odd one out.

- (a) UTNA (b) EINEC
 (c) OMEHRT (d) ROBEHRT

100. Which is the form of market where there is a lack of competition?

- (a) Monopoly
 (b) Oligopoly
 (c) Perfect competition
 (d) Marketisation

Answer Key

1-d	2-c	3-b	4-c	5-c	6-d	7-a	8-d	9-b	10-c
11-a	12-c	13-a	14-c	15-a	16-a	17-d	18-b	19-a	20-b
21-d	22-b	23-a	24-d	25-c	26-a	27-d	28-b	29-c	30-b
31-c	32-b	33-a	34-b	35-b	36-d	37-d	38-c	39-a	40-c
41-c	42-c	43-b	44-d	45-a	46-c	47-b	48-d	49-a	50-b
51-c	52-a	53-a	54-d	55-c	56-c	57-b	58-c	59-b	60-b
61-a	62-b	63-c	64-b	65-b	66-b	67-3	68-b	69-c	70-a
71-c	72-a	73-b	74-b	75-c	76-a	77-c	78-c	79-c	80-d
81-d	82-d	83-a	84-c	85-a	86-a	87-d	88-d	89-d	90-c
91-c	92-a	93-d	94-d	95-c	96-b	97-a	98-d	99-d	100-a

MODEL PAPER -20

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
- Each Questions carry 1 Marks and 0.25 Negative Marking
- Total time for this Question Paper is 90 Minutes
- This Question paper divided into two parts 70 Questions from Pharmacy and 30 Questions from Non-Pharma as per Direction by RRB.

- Partial or complete removal of top and bottom portion of the tablet this defect is called as.**
(a) Capping (b) Mottling
(c) sticking (d) Weight variation
- The antimalarial drug belonging to pyrimidine derivatives:**
(a) Mefloquine (b) Pyrimethamine
(c) Quinidine (d) Chloroquine
- One teaspoonful is equal to**
(a) 16 ounce (b) 20 ounce
(c) 12 ounce (d) 08 ounce
- Type B gelatin is used for capsule is derived from**
(a) Pork skin (b) Bones
(c) Both (a) & (b) (d) None of these
- Which step of sugar-coating help in build up tablet size?**
(a) Sealing (b) Sub coating
(c) Syrup Coating (d) None of these
- The drug used for malaria chemoprophylaxis and treatment**
(a) Chloroquine (b) Quinidine
(c) Quinine (d) Sulfonamides
- Which unit is used for the measurement of weight in apothecaries' system?**
(a) Pound (b) Drachm
(c) Grain (d) Scruple
- Which is the smallest size of capsule?**
(a) 0 (b) 1
(c) 3 (d) 5
- Which is better thickening agent than acacia in formulation of suspension?**
(a) Clay
(b) Gum acacia
(c) Aluminium hydroxide
(d) Tragacanth
- Which is most commonly employed emulsifying agent for parenteral emulsions?**
(a) Tween 60 (b) HPMC
(c) Lecithin (d) CMC
- Which of the following antimalarial drug is used for the radical cure of P. vivax?**
(a) Mefloquine (b) chloroquine
(c) Quinidine (d) Primaquine
- Penicillin are the derivatives of**
(a) 7-amino penicillanic acid
(b) 6-amino penicillanic acid
(c) 7-amino cephalosporanic acid
(d) None of these
- Acetaminophen is**
(a) Paracetamol (b) Indomethacin
(c) Ibuprofen (d) None of these
- Sodium hydroxide is commonly known as**
(a) Staked time (b) Spirit of salt
(c) Caustic soda (d) Quick lime
- In hot air oven what temperature is maintained for sterilization of parenterals?**
(a) 160°C for 4 hours
(b) 160°C for 30 minutes
(c) 160°C for 3 hours
(d) 160°C for 2 hours
- Which is commonly used wetting agent in parenteral?**
(a) Tween 60 (b) Tween 61
(c) Lecithin (d) Tween 80
- Sodium bicarbonate is used as**
(a) Electrolyte replenisher
(b) Systemic alkaliser
(c) Antacid
(d) All of the above
- Caffeine is a derivative of**
(a) Indole (b) Quinoline
(c) Acridine (d) Xanthine
- In general, when an acid and a base are mixed**
(a) A new acid and a salt are formed
(b) A new base and a salt are formed
(c) A salt and water are formed
(d) No reaction occurs

MODEL PAPER -23

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
- Each Questions carry 1 Marks and 0.25 Negative Marking
- Total time for this Question Paper is 90 Minutes
- This Question paper divided into two parts 70 Questions from Pharmacy and 30 Questions from Non-Pharma as per Direction by RRB.

- Morphine is contraindicated in**
(a) In angina (b) In bronchial asthma
(c) In pancreatitis (d) In MI
- Digoxin should not be given when the heart rate is**
(a) Less than 60 (b) Less than 70
(c) Less than 80 (d) Less than 90
- How much potassium is in 1 ml of potassium chloride?**
(a) 2 m Eq (b) 7 m Eq
(c) 5 m Eq (d) 8 m Eq
- In the context of Pharmacy LASA Stands for:**
(a) Lasa apso hi-res Stock
(b) Latest Antibiotic for Staph Aureus
(c) Look Alike Sound Alike
(d) Low allergy Sub-acute Antigens
- The medicine for tuberculosis is-**
(a) Isoniazid (b) Rifampin
(c) Ethambutol (d) All of the above
- Medicines which cause serious disorders in the baby when passed through the mother to the baby, are called**
(a) Mutagen (b) Teratogen
(c) Telogen (d) Pyrogen
- Hay fever is caused by whose pollution in the air?**
(a) Oxygen
(b) Household dust
(c) Vapors of pigments
(d) Pollen grains
- What is the treatment given to a child suffering from HIV infection called**
(a) FRT (b) ART
(c) ORT (d) MD
- The reason for reduced immunity after HIV infection is-**
(a) Decrease in the number of CD4 lymphocytes
(b) Increase in the number of CD4 lymphocytes
(c) Decrease in the number of RBCs
(d) Decrease in the number of platelets.
- When a drug is introduced into the bone marrow, this route is called-**
(a) Intraperitoneal (b) Intrathecal
(c) Intramedullary (d) Intraarterial
- The drug of choice to control premature labor is-**
(a) Ritodrin (b) Terbutaline
(c) Isoxaprine (d) Aspirin
- The medicine to reduce the pain of angina is-**
(a) Penicillin (b) Nitroglycerin
(c) Lasix (d) All of the given options
- Which of the following drug is a SERM, useful for the treatment of osteoporosis?**
(a) Raloxifene (b) Strontium
(c) Bisphosphonate (d) Estradiol
- Angiotensin II causes all of the following: Except:**
(a) Stimulates the release of ADH
(b) Increases thirst
(c) Vasodilation
(d) Stimulates aldosterone release
- Leukotriene receptor antagonist is?**
(a) Zafirlukast (b) Nedocromil
(c) Latanoprost (d) Zileuton
- Advantage of salmeterol over salbutamol is its:**
(a) Shorter duration of action
(b) More potency
(c) Longer duration of action
(d) Lesser cardiac effects
- Antacid drug that typically causes diarrhoea is:**
(a) Sodium bicarbonate
(b) Magnesium hydroxide
(c) Calcium bicarbonate
(d) Aluminium hydroxide
- Loading dose depends on the following factors, except:**
(a) Drug concentration to be achieved
(b) Volume of distribution
(c) Clearance of a drug
(d) Bioavailability of drug
- A drug that competes for an active binding site is called:**

MODEL PAPER -27

RRB Pharmacist

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
- Each Questions carry 1 Marks and 0.25 Negative Marking
- Total time for this Question Paper is 90 Minutes
- This Question paper divided into two parts 70 Questions from Pharmacy and 30 Questions from Non-Pharma as per Direction by RRB.

- The part of prescription containing directions to the pharmacist for preparing the prescriptions and for dispensing them, is known as**
(a) Superscription (b) Refilling
(c) Subscription (d) Signa
- The Latin term for eardrops is**
(a) Auristillae (b) Collyrium
(c) Collutorium (d) Haustus
- Rapid development of tolerance on repeated doses of a drug in quick succession, with reduction in clinical response, is termed as**
(a) Synergism (b) Antagonism
(c) Idiosyncrasy (d) Tachyphylaxis
- Clark's formula of dose calculation is based on**
(a) Body weight (b) Body surface area
(c) Body mass index (d) Age
- Dose calculation based on body surface area is depicted by formula.**
(a) Brunton's
(b) Crawford Terry Rourke's
(c) Augsberger's
(d) Fried's
- The first British Pharmacopoeia was published in**
(a) 1864 (b) 1968
(c) 1932 (d) 1885
- The supplement for Indian Pharmacopoeia in 2000 was introduced to include which of the following?**
(a) Liposomal products
(b) Veterinary products
(c) Herbal drugs
(d) Vaccines
- Which of the following is an absorbable type of suture material?**
(a) Brocafil (b) Horse hair
(c) Silk (d) Linen
- The standard test for catgut involving measurement by means of dial reading micrometre is known as the test for**
(a) Tensile strength (b) Sterility
(c) Gauge (d) Contaminants
- Endotoxins otherwise known as lipopolysaccharides comprise the outermost cell wall layer of**
(a) Gram-positive bacterium
(b) Gram-negative bacteria
(c) Virus
(d) Fungi
- Leptospirosis is an infection.**
(a) Bacterial (b) Parasitic
(c) Viral (d) Fungal
- Which of the following is a morbidity indicator?**
(a) Child death rate (b) Life expectancy
(c) Case fatality rate (d) Incidence
- The causative viral organism responsible for measles is**
(a) Variola (b) Varicella
(c) Ebola (d) Rubeola
- Which of the following is NOT an epidemiological index for measuring the tuberculosis problem in a community?**
(a) Mortality (b) Prevalence
(c) Morbidity (d) Notification rate
- Which of the following is NOT an ideal characteristic of health indicators?**
(a) Reliable (b) Specific
(c) Resilient (d) Relevant
- Which of the following is NOT a parameter of the traditional triangle of epidemiology?**
(a) Environment (b) Agent
(c) Morbidity (d) Host
- The Universal Declaration of Human Rights recognising the right to health was established in**
(a) 1966 (b) 1948
(c) 1979 (d) 1989
- The measure of overall disease burden expressed as the number of years lost due to ill health, disability, or early death, is known as**

96. Rs. 10000 is being compounded at 20% per annum. Calculate the amount after 2 years if rate of interest is charged half yearly.
 (a) Rs. 10041 (b) Rs. 14641
 (c) Rs. 12000 (d) Rs. 13660
97. Pakistani film industry is known as _____.
 (a) Pollywood (b) Lollywood
 (c) Kollywood (d) Mollywood
98. The mean of a distribution is 18 and the standard deviation is 4.5. What is the value of the coefficient of variation?
 (a) 50% (b) 25%
- (c) 100% (d) 75%
99. Pointing to a woman, I said that her brother's only son is the brother of my wife. How is the woman related to me?
 (a) Father-in-law's sister
 (b) Mother-in-law
 (c) Sister-in-law
 (d) Sister
100. Which of the following states does not share a border with Myanmar?
 (a) Assam (b) Mizoram
 (c) Nagaland (d) Manipur

Answer Key

1-d	2-a	3-b	4-c	5-b	6-a	7-c	8-c	9-c	10-d
11-d	12-c	13-a	14-b	15-c	16-c	17-b	18-a	19-a	20-c
21-c	22-d	23-a	24-b	25-d	26-c	27-d	28-c	29-a	30-a
31-c	32-c	33-d	34-c	35-c	36-c	37-c	38-c	39-a	40-c
41-c	42-a	43-b	44-c	45-c	46-c	47-d	48-b	49-a	50-b
51-c	52-c	53-d	54-d	55-b	56-c	57-c	58-a	59-b	60-a
61-a	62-d	63-c	64-a	65-b	66-c	67-a	68-b	69-b	70-c
71-d	72-d	73-c	74-b	75-b	76-a	77-b	78-a	79-b	80-d
81-b	82-c	83-d	84-c	85-c	86-c	87-c	88-d	89-a	90-b
91-c	92-d	93-c	94-a	95-a	96-b	97-b	98-b	99-a	100-a

RRB Previous Year Paper -1

RRB Pharmacist Gr - III 2015

Time – 90 Minutes

Total Questions – 100

Total Marks - 100

Instructions To Candidates

- This Question Paper Consist of 100 Questions
- Each Questions carry 1 Marks and 0.25 Negative Marking
- Total time for this Question Paper is 90 Minutes
- This Question paper divided into two parts 70 Questions from Pharmacy and 30 Questions from Non-Pharma as per Direction by RRB.

- Which of the following is not a bone in the human body?**
(a) Sternum (b) Humerus
(c) Pericardium (d) Tibia
- Rennin and lactase, the enzymes required to digest milk, disappear in the human body by the age of**
(a) Two (b) Three
(c) Five (d) Eight
- Duodenum is situated**
(a) At the uppermost part of the small intestine
(b) Near the lungs
(c) In the brain
(d) At the tail end of the intestine
- The heart is covered by a membrane called**
(a) Epidermis (b) Dermis
(c) Epicardium (d) Pericardium
- About _____ of the total calcium present in the human body is in the blood**
(a) 99% (b) 70%
(c) 5% (d) 1%
- Phenylketonuria is an example of an inborn error of metabolism. This refers to**
(a) Hormonal overproduction
(b) Non-disjunction
(c) Atrophy of endocrine glands
(d) Inherited lack of an enzyme
- As in the arms and legs, blood flows against gravity and is prevented from flowing back by**
(a) The extremely low pressure of venous blood
(b) Valves
(c) Movements in the surrounding muscles
(d) The narrowing down of the lumen of veins by the contraction of the muscle layer comprising their walls
- Identical twins arise when two**
(a) Cells develop independently from the same zygote
(b) Gametes develop independently
(c) Sperms develop independently
(d) Ova develop independently
- Element that is not found in blood is**
(a) Iron (b) Copper
(c) Chromium (d) Magnesium
- Scratching eases itching because**
(a) It kills germs
(b) It suppresses the production of enzymes which cause itching
(c) It removes the outer dust in the skin
(d) It stimulates certain nerves which direct the brain to increase the production of antihistaminic chemicals.
- The gland, which in relation to body size is largest at birth and then gradually shrinks after puberty, is**
(a) Thyroid (b) Pituitary
(c) Thymus (d) Adrenal
- A human sperm may contain?**
(1) X-chromosome
(2) Y-chromosome
(3) XY-chromosome
(a) 1 only (b) 2 only
(c) 1 and 2 (d) 1,2 and 3
- Which of the following is not a bone in the legs of the human body?**
(a) Radius (b) Tibia
(c) Femur (d) Fibula
- Bleeding from artery is characterized by which of the following?**
(1) Blood is red
(2) Blood is purple
(3) Bleeding is continuous
(4) Bleeding is intermittent
(a) 1 and 3 (b) 2 and 3
(c) 1 and 4 (d) 2 and 4
- Which of the following is not a vestigial organ?**
(a) Centriole (b) Molar tooth
(c) Appendix (d) Diaphragm
- Which of the following bone articulations forms the gliding joint?**
(a) Humerus and radius
(b) Carpals

1. **One table spoon full=**
 (a) 13 ml (b) 15 ml
 (c) 23 ml (d) 35 ml
2. **Select the tablet that is not ingested orally**
 (a) Chewable tablet
 (b) Sustained release tablet
 (c) Sugar coated tablet
 (d) Hypodermic tablet
3. **Absolute structure of a drug molecule can be determined by IP 2004**
 (a) DSC
 (b) X-ray crystallography
 (c) Mass spectroscopy
 (d) Electrophoresis
4. **The partial or complete separation of the top or bottom crowns of a tablet**
 (a) Capping (b) Picking
 (c) Mottling (d) All of these
5. **The fermented Ayurvedic preparation is**
 (a) Avleha (b) Asava
 (c) Ghrita (d) All of these
6. **Anionic flocculating agent is**
 (a) Guar gum (b) HPMC
 (c) PVP (d) Tragacanth
7. **Cyclone separator works on the principle of**
 (a) Centrifugation (b) Agitation
 (c) Vibration (d) Gyration
8. **Which mill depends on the principle of combined impact and attrition**
 (a) Ball mill (b) Hammer mill
 (c) Roller mill (d) Disintegrator mill
9. **Pessaries and foams are the example of _____ dosage form.**
 (a) Urethral (b) Vaginal
 (c) Parenteral (d) None of these
10. **Glidants aid to _____ the tablets.**
 (a) Colour (b) Taste
 (c) Flow (d) Odour
11. **Drugs suspension and in semi-solid for mulation always degrade by**
 (a) Zero order kinetics
 (b) First order kinetics
 (c) Second order kinetics
 (d) Non-linear kinetics
12. **Which one of the following mills is used for mixing solid powder in ointment base**
 (a) Triple-roller mill
 (b) Colloidal Mill
 (c) Silverson mixer homogenizer
 (d) All of these
13. **A comprehensive book which is prepared under the authority of the Government of the respective countries is**
 (a) Constitution of pharmacy
 (b) Textbook of pharmacy
 (c) Both 'a' & 'b'
 (d) Pharmacopoeia
14. **The area free from microorganisms is known as**
 (a) Working area (b) Aseptic area
 (c) clean area (d) All of these
15. **Mantoux test is a diagnostic test for**
 (a) Leprosy (b) Tuberculosis
 (c) Malaria (d) None of these
16. **The process in which solid gets converted into vapour without formation of liquid is**
 (a) Drying (b) Evaporation
 (c) Sublimation (d) None of these
17. **The fourth edition of Pharmacopoeia of India was published in**
 (a) 1962 (b) 1983
 (c) 1996 (d) 2016
18. **What do you mean by filter cake**
 (a) The cake which is to be filtered
 (b) A porous membrane used to retain the solids
 (c) The solids which are present on the filter
 (d) All of these
19. _____ is a mathematical method for solving problems in. which the ingredients possessing different percentage strengths are mixed.
 (a) Avoirdupois system (b) Allegation method
 (c) Metric system (d) Imperial system
20. **Solutions to be used as an ophthalmic and injectable should be**
 (a) Isotonic (b) Hypertonic
 (c) Both 'a' & 'b' (d) Hypotonic
21. **The quantity of solute in _____ solutions is more than the quantity required for making them isotonic.**
 (a) Hypertonic (b) Paratonic
 (c) Both 'a' & 'b' (d) Isotonic

98. Which of the following is referred as biological indicator of autoclave
 (a) Bacillus stearothermophilus
 (b) Bacillus subtilis
 (c) Bacillus moratorium
 (d) Bacillus cereus
99. Particles size in aerosol distribution in aerosol is determined by

- (a) Cascade impact
 (b) Light scattering decay
 (c) Coulter counter
 (d) Gas Chromatography

100. Which of the following technique is used for the targeted drug delivery to liver

- (a) Capsule (b) Solution
 (c) Liposome (d) Tablet

Answer Key

1-b	2-d	3-b	4-a	5-b	6-d	7-a	8-a	9-b	10-c
11-a	12-a	13-d	14-b	15-b	16-c	17-c	18-c	19-b	20-a
21-a	22-c	23-b	24-b	25-b	26-a	27-a	28-c	29-b	30-a
31-b	32-c	33-c	34-a	35-c	36-d	37-d	38-c	39-a	40-a
41-a	42-b	43-c	44-a	45-a	46-a	47-a	48-a	49-a	50-b
51-b	52-a	53-b	54-b	55-d	56-a	57-a	58-b	59-c	60-a
61-a	62-a	63-b	64-b	65-d	66-b	67-b	68-b	69-b	70-a
71-a	72-a	73-a	74-c	75-b	76-a	77-a	78-a	79-c	80-c
81-a	82-a	83-b	84-d	85-a	86-c	87-c	88-b	89-b	90-c
91-c	92-a	93-c	94-a	95-b	96-a	97-c	98-a	99-a	100-c

3

PHARMACEUTICAL CHEMISTRY

1. **Silver nitrate is assayed by**
 - (a) Precipitation method
 - (b) Complexometric method
 - (c) Acidimetry
 - (d) Gravimetry method
2. **_____ is prepared by dissolving aluminium hydroxide in sulphuric acid**
 - (a) Aluminium sulphate
 - (b) Aluminium chloride
 - (c) Aluminium oxide
 - (d) Aluminium sulphite
3. **_____ is prepared by neutralization of sodium carbonate with hydrogen fluoride**
 - (a) Sodium formamide
 - (b) Sodium fluoride
 - (c) Sodium bicarbonate
 - (d) Hydrofluoric acid
4. **The number of protons in an element is equal to its**
 - (a) Atomic number
 - (b) Neutron number
 - (c) Ionic number
 - (d) Mass number
5. **The nuclides that have same atomic number and different mass numbers are called**
 - (a) Isobars
 - (b) Isotopes
 - (c) Isotones
 - (d) Nuclides
6. **_____ is added to make alkaline which in turn stabilizes the complex in the limit test for Iron.**
 - (a) NaOH
 - (b) NaHCO_3
 - (c) Ammonia
 - (d) Ammonium chloride
7. **_____ is used in the preparation of poultices**
 - (a) Bentonite
 - (b) Heavy Kaolin
 - (c) Charcoal
 - (d) Light Kaolin
8. **In complexometric titration, to set a sharp endpoint, a known amount of _____ is added.**
 - (a) Magnesium oxide
 - (b) Magnesium carbonate
 - (c) Magnesium sulphate
 - (d) Magnesium sulphite
9. **_____ is used for sterilizing surgical instruments**
 - (a) Cesium-137
 - (b) Cobalt-60
 - (c) Calcium-110
 - (d) Mercury-203
10. **_____ theory is used to explain the nature of bonding in coordination compounds**
 - (a) Lewis Theory
 - (b) GIBB'S Theory
 - (c) Werner's Theory
 - (d) Hees Theory
11. **The phenomenon of maintenance of body fluids and the concentration of different electrolytes in extracellular and intracellular fluids is known as**
 - (a) Osmotic equilibrium
 - (b) Blood volume
 - (c) Homeostasis
 - (d) Acid-base balance
12. **Which of the following acids is used for the preparation of ceric ammonium sulphate IP?**
 - (a) Hydrochloric acid
 - (b) Sulphuric acid
 - (c) Nitric acid
 - (d) Perchloric acid
13. **Ammonium carbonate is used as**
 - (a) Antacid
 - (b) Respiratory stimulant
 - (c) Antidote
 - (d) Hematinic
14. **Calcium folinate is assayed by**
 - (a) Spectrophotometry
 - (b) HPLC
 - (c) HPTLC
 - (d) Spectrofluorimetry
15. **Aluminium chloride is assayed by**
 - (a) Precipitation titration
 - (b) Non-aqueous titration
 - (c) Gravimetric method
 - (d) Complexometric titration
16. **Potassium in oral rehydration salts is determined by**
 - (a) Polarimetry
 - (b) UV-Spectrometry
 - (c) HPLC
 - (d) Flame photometry
17. **Sodium citrate is assayed by**
 - (a) Precipitation titration
 - (b) Gravimetry method
 - (c) Complexometric method
 - (d) Non-aqueous titration
18. **Ferrous succinate is assayed by**
 - (a) Redox titration
 - (b) Precipitation titration
 - (c) Non-aqueous titration
 - (d) Gravimetry method
19. **Penicillamine is assayed by**
 - (a) Precipitation titration

1. **Alkaline diuresis is done for treatment of poisoning due to**
 (a) Morphine (b) Amphetamine
 (c) Phenobarbitone (d) Atropine
2. **Low Vd means**
 (a) The drug has low half-life
 (b) The drug does not accumulate in tissues
 (c) The drug has low bioavailability
 (d) The drug has weak plasma protein binding
3. **Factors affecting absorption are**
 (a) Aqueous solubility
 (b) Area of absorbing surface
 (c) Vascularity
 (d) All of the above
4. **Device that produces a mist of the drug solution generated by pressurized air**
 (a) Metered dose inhaler (b) Spinhaler
 (c) Jet nebulizer (d) Rotahaler
5. **Which parental route of administration has 100% bioavailability Which**
 (a) intravenous (b) intramuscular
 (c) subcutaneous (d) intradermal
6. **The chief advantage of the sublingual route is**
 (a) Only lipid-soluble, non-irritating drugs can be administered
 (b) Action produced in minutes
 (c) Bypasses the liner
 (d) Relatively rapid absorption
7. **Carbenicillin and Anti-platelet drug use results in**
 (a) Platelet count !
 (b) Increases risk of bleeding
 (c) Stops bleeding
 (d) No effect
8. **Nocebo produces**
 (a) Positive pharmacodynamic effect
 (b) Positive pharmacokinetic effect
 (c) Negative pharmacodynamic effect
 (d) Negative pharmacokinetic effect
9. **G-6-PD deficiency is due to**
 (a) X linked trait (b) Y linked trait
 (c) Z linked trait (d) X and Y linked trait
10. **Malignant hyperthermia after halothane is due to the release of**
 (a) K⁺ channel (b) Ca²⁺ channel
 (c) Na⁺ channel (d) NaHCO₂ channel
11. **What is pharmacogenetics?**
 (a) Variability in drug response
 (b) Peak drug response
 (c) Null drug response
 (d) Low drug response
12. **Choose the antiepileptic drug that is indicated in refractory partial seizures and produces metabolic acidosis and renal stones**
 (a) Topiramate (b) Levetiracetam
 (c) Pregabalin (d) Zonisamide
13. **Choose the antipsychotic drug which causes retinal deposits (Browning of vision) is**
 (a) Thioridazine (b) Chlorpromazine
 (c) Clozapine (d) Haloperidol
14. **When increased amount of drug/ substance is needed to produce the desired effect phenomenon is known as**
 (a) Withdrawal
 (b) Tolerance
 (c) Psychological dependence
 (d) Physiological dependence
15. **Which excitatory neurotransmitter produce pain in spinal cord**
 (a) NMDA (b) Substance P
 (c) Glutamate (d) Glycine
16. **Select a drug from the following that has been used to produce a non-specific awakening effect in hepatic coma**
 (a) Promethazine (b) Levodopa
 (c) Carbidopa (d) Amantadine
17. **Choose the antipsychotic drug with the least sedative extrapyramidal side effect**

1. **Sucrose is non-reducing sugar due to**
 - (a) Presence of α -hydroxy keto group
 - (b) Its conversion to invert sugar
 - (c) The linkage between both the anomeric carbon atoms
 - (d) Equal amount of D(+) glucose and D(-) fructose
2. **Which of the following is an example of Epimers?**
 - (a) Glucose and Ribose
 - (b) Glucose and Galactose
 - (c) Galactose, Mannose and Glucose
 - (d) Glucose, Ribose and Mannose
3. **What is Furanose?**
 - (a) 7-methyl sugar
 - (b) A deoxy sugars
 - (c) Non-reducing disaccharide
 - (d) Reducing disaccharides of glucose and fructose
4. **Which of the following does not have sulphuric acid groups?**
 - (a) Heparin
 - (b) Kerato sulfate
 - (c) Hyaluronic acid
 - (d) Chondroitin sulfate
5. **A tripeptide contains-**
 - (a) 3 amino acids and 1 peptide bond
 - (b) 3 amino acids and 2 peptide bonds
 - (c) 3 amino acids and 3 peptide bonds
 - (d) 3 amino acids and 4 peptide bonds
6. **Which of the following methods is used to determine the structure of proteins?**
 - (a) X-ray crystallography
 - (b) Kryptonics x-ray vision
 - (c) Magnetic resonance imaging
 - (d) None of the preceding
7. **Which of the following information is responsible for determining a protein's three-dimensional shape?**
 - (a) The peptide bond of the protein
 - (b) The amino acid sequence of the protein
 - (c) The protein's interaction with other polypeptides
 - (d) The protein's interaction with molecular chaperones
8. **The process of a protein unfolding is known as.**
 - (a) Renaturation
 - (b) Denaturation
 - (c) Oxidation
 - (d) Reduction
9. **What are the proteins that only give a single amino acid when hydrolyzed?**
 - (a) Simple proteins
 - (b) Conjugated proteins
 - (c) Derived proteins.
 - (d) All of the preceding
10. **In the protein classification, the globular proteins are _____ in nature.**
 - (a) Supersaturated
 - (b) Saturated
 - (c) Unsaturated
 - (d) Water-soluble
11. **The resulting nucleoproteins combined with DNA are found in**
 - (a) Chromosome
 - (b) DNA
 - (c) RNA
 - (d) All of the above
12. **Fibrous protein consists of polypeptides chains arranged in:**
 - (a) α helix
 - (b) β -pleated sheet
 - (c) β helix
 - (d) None of these
13. **The only carbohydrate which does not have any chiral carbon atoms is**
 - (a) Glyceraldehyde
 - (b) Erythrose
 - (c) Dihydroxyacetone
 - (d) Erythrulose
14. **Which of the following glycosidic linkages is found in maltose?**
 - (a) Glucose (α 1 - 2 β) Fructose
 - (b) Glucose (α 1 - 4) Glucose
 - (c) Galactose (β 1 - 4) Glucose
 - (d) Glucose (β 1 - 4) Glucose
15. **Enzymes increase the rate of chemical reactions by:**
 - (a) Increasing the temperature of the reaction
 - (b) Increasing the concentration of the substrate
 - (c) Lowering the activation energy of the reaction
 - (d) Increasing the pressure of the reaction
16. **Which of the following is not a type of enzyme inhibition?**
 - (a) Competitive inhibition
 - (b) Non-competitive inhibition
 - (c) Allosteric inhibition
 - (d) Acceleration inhibition
17. **An enzyme's activity is often influenced by pH. Most enzymes have an optimal pH range around:**
 - (a) pH 2-3
 - (b) pH 7-8

1. **Which is not a virus borne communicable disease**
(a) Measles (b) Tetanus
(c) Cholera (d) AIDS
2. **Which of the following is an inborn immunity**
(a) Natural passive immunity
(b) Natural active immunity
(c) Innate immunity
(d) Both (a) and (b)
3. **Readymade antibodies are administered to counter**
(a) Natural passive immunity
(b) Natural active immunity
(c) Artificial passive immunity
(d) Artificial active immunity
4. **Antibodies are**
(a) Lipids (b) Polysaccharides
(c) Protein (d) None of these
5. **State of physical or Psychological dependence on a drug is**
(a) Drug misuse (b) Drug addiction
(c) Drug Abuse (d) Psychotropic
6. **Genetically Modified foods are**
(a) More nutritious (b) More tasty
(c) Cheaper (d) All of above
7. **Which gas is used for artificial ripening of fruit**
(a) Nitrogen (b) Oxygen
(c) Ethylene (d) Sulphur Dioxide
8. **Product derived from food source with extra health quality is**
(a) Genetically Modified food
(b) Balanced Diet
(c) Fiber diet
(d) Nutraceuticals
9. **Which is arthropod-borne infection.**
(a) Filariasis (b) Dengue
(c) Malaria (d) All
10. **The Causative Agent of Diphtheria is**
(a) Corynebacterium Diphtheria
(b) Staphylococcus Diphtheria
(c) Both (a) & (b)
(d) None
11. **Study of Disease frequency & its distribution is known as**
(a) Demography (b) Epidemiology
(c) Dimensions (d) Indicators
12. **Which ion deficiency causes poor growth of bones and teeth**
(a) Sodium (b) Potassium
(c) Calcium (d) All
13. **Excess use of psychoactive drugs unrelated to medical practice is**
(a) Drug abuse (b) Drug Addiction
(c) both (a) & (b) (d) None
14. **The mosquito repellent that is used in the homes in the form of coil, liquids etc. are**
(a) Sedative (b) Pesticides
(c) Insecticides (d) Fertilizers
15. **Which of the following are the negative health effects of noise pollution?**
(a) Hypertension (b) Hearing loss
(c) Stress and headache (d) All of the above
16. **A substance needed by the body for growth, energy, repair and maintenance is called**
(a) Nutrient (b) Carbohydrate
(c) Calorie (d) Fatty acid
17. **Which of the following is a method of birth control?**
(a) GIFT (b) IUD
(c) IVE-ET (d) HIF
18. **Night blindness is caused due to the deficiencies of the following vitamin:**
(a) Vitamin A (b) Vitamin B
(c) Vitamin C (d) Vitamin E
19. **Constituent of alcoholic beverages is**
(a) Methyl alcohol (b) Propyl alcohol
(c) Ethyl alcohol (d) Mix of all
20. **Which one of the following diseases is caused by water pollution?**

1. **The instrument that measures and records the relative humidity of air is**
(a) Hydrometer (b) Hygrometer
(c) Lactometer (d) Barometer
2. **The different Colours of different stars are due to the variation of**
(a) Temperature
(b) Pressure
(c) Density
(d) Radiation from them
3. **What is found in frequency modulation?**
(a) Fixed frequency
(b) Fixed dimension
(c) Change in frequency and dimension
(d) Change in dimension only
4. **When the speed of car is doubled, then what will be the braking force of the car to stop it in the same distance?**
(a) Four times (b) Two times
(c) Half (d) One-fourth
5. **The dimension of which of the following is the same as that of impulse?**
(a) Volume
(b) Momentum
(c) Torque
(d) Change in the rate of momentum
6. **Which one of the following is left when a hydrogen atom loses its electron?**
(a) An alpha particle
(b) A neutron
(c) A proton
(d) A beta particle
7. **The fundamental scientific principle battery is in the operation of**
(a) Acid base interaction
(b) Dialysis
(c) Dissociation of electrolytes
(d) Oxidation-reduction
8. **Which one of the following metals is used to galvanise iron?**
(a) Copper (b) Lead
(c) Zinc (d) Mercury
9. **Cement is made hard with**
(a) Dehydration
(b) Hydration and dissociation of water
(c) Dissociation of water
(d) Polymerisation
10. **When a ring of metal is heated what happens to its hole?**
(a) Expands
(b) Contracts
(c) It expands or contracts according to its diameter
(d) It expands or contracts according to its coefficient of expansion
11. **Hay fever is a sign of**
(a) Malnutrition (b) Allergy
(c) Old age (d) Overwork
12. **The branch of agriculture which deals with the feeding, shelter, health and breeding of the domestic animals is called**
(a) Dairy Science
(b) Veterinary Science
(c) Poultry
(d) Animal Husbandry
13. **Edward Jenner is associated with**
(a) Cholera (b) Typhoid
(c) Small Pox (d) Paralysis
14. **A plant with is compound leaves**
(a) Papaya (b) Coconut
(c) Peepal (d) Hibiscus
15. **The scientist who explained about blood circulation for the first time was**
(a) Antonie van Leeuwenhoek
(b) William Harvey
(c) Gregor Mendel
(d) Ronald Ross
16. **The earliest city discovered in India was**
(a) Harappa (b) Punjab
(c) Mohenjo Daro (d) Sindh
17. **Epigraphy means**
(a) The study of coins
(b) The study of inscriptions
(c) The study of epics
(d) The study of geography

1. A sum of money placed at compound interest triples itself in 5 yr. In how many years will it amount to nine times itself?
(a) 12 (b) 10 (c) 15 (d) 18
2. A number divided by 56 gives 29 as remainder. If the same number is divided by 8, the remainder will be
(a) 4 (b) 5 (c) 6 (d) 7
3. A man has 100 kg of sugar, part of which he sold at 7% profit and the rest at 17% profit. He gained 10% on the whole. How much did he sell at 7% profit?
(a) 65 kg (b) 35 kg
(c) 30 kg (d) 70 kg
4. The price of rice is reduced by 2%. How many kilograms of rice can now be bought for the money which was sufficient to buy 49 kg of rice earlier?
(a) 48 (b) 49 (c) 50 (d) 51
5. If both the radius and height of a right circular cone are increased by 20%, its volume will be increased by
(a) 20% (b) 40% (c) 60% (d) 72.8%
6. In an examination, 52% of students failed in Hindi and 42% in English. If 17% failed in both the subjects.
(a) 38 (b) 33 (c) 23 (d) 18
7. The least number, which must be added to 6709 to make it exactly divisible by 9, is
(a) 5 (b) 4 (c) 7 (d) 2
8. The greatest number that divides 122 and 243 leaving respectively 2 and 3 as remainders, is
(a) 12 (b) 24 (c) 30 (d) 120
9. The area of a field in the shape of trapezium measures 1400 m^2 . The perpendicular distance between its parallel side is 24 m. If the ratio of the parallel sides is 5: 3, the length of the longer parallel side is
(a) 75 m (b) 45 m (c) 120 m (d) 60 m
10. Starting from his house one day, a student walks at a speed of $2\frac{1}{2} \text{ km/h}$ and reaches his 6 min late. The next day at the same time, he increases his speed by 1 km/h and reaches the school 6 min early. How far is the school from his house?
(a) 2 km (b) $1\frac{1}{2} \text{ km}$
(c) 1 km (d) $1\frac{3}{4} \text{ km}$
11. The average of marks in Mathematics for 5 students was found to be 50. Later, it was discovered that in the case of 1 student, the marks 48 were misread as 84. The correct average is
(a) 40.2 (b) 40.8 (c) 42.8 (d) 48.2
12. A vertical stick 15 m long casts a shadow 12 m long on the ground. At the same time, a tower casts a shadow 50 m long on the ground. The height of the tower is
(a) 60 m (b) 62 m (c) 62.5 m (d) 63 m
13. A walks at a uniform rate of 4 km an hour and 4 h after his start, B bicycles after him at the uniform rate of 10 km an hour. How far from the starting point will B catch A?
(a) 16.7 km (b) 18.6 km
(c) 21.5 km (d) 26.7 km
14. Two trains start from stations A and B and travel towards each other at speeds of 50 km/h and 60 km/h, respectively. At the time of their meeting, the second train has travelled 120 km more than the first. The distance between A and B is
(a) 990 km (b) 1200 km
(c) 1320 km (d) 1440 km
15. Two pipes can fill a cistern in 3 h and 4 h respectively and a waste pipe can empty it in 2 h. If all the three pipes are kept open, then the cistern will be filled in
(a) 5 h (b) 8 h (c) 10 h (d) 12 h
16. A and B can complete a work in 15 days and 10 days, respectively. They started doing the work together but after 2 days, B had to leave and A alone completed the remaining work. The whole work was completed in
(a) 10 days (b) 8 days
(c) 12 days (d) 15 days
17. A man can do a piece of work in 5 days, but with the help of his son, he can do it in 3 days. In what time can the son do it alone?
(a) 7 days (b) 8 days
(c) 7 (d) 6

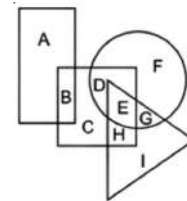
- (c) Rs. 3000 (d) Rs. 3500
94. If cost per kg of sugar, salt & rice is Rs. 10, Rs. 30 & Rs. 20 respectively then find the sum of difference of total cost of sugar and that of salt and difference of total cost of sugar and that of rice?
 (a) Rs. 500 (b) Rs. 475
 (c) Rs. 400 (d) Rs. 450
95. What will come in the place of the question mark (?) in the following number series? 2, 6, 42, 142, 338, ?
 (a) 665 (b) 632
 (c) 662 (d) 682
96. What will come in the place of the question mark (?) in the following number series? 87, 89, 86, 91, 84, ?
 (a) 95 (b) 96 (c) 97 (d) 98
97. 4 men & 3 children completes a project for Rs. 600 in 3 days. If a man completes same project in 15 days. Find daily wage of a man.
 (a) Rs. 36 (b) Rs. 40
 (c) Rs. 44 (d) Rs. 48
98. Average of 8 consecutive odd numbers is 10. What will be the average of smallest 4 numbers out of 8 numbers?
 (a) 7 (b) 8 (c) 6 (d) 4
99. Sanjay scored 56% marks and passed an exam by 10 marks while Rohit scored 48% marks but failed by 6 marks. What is the pass percentage?
 (a) 52.5% (b) 51.5%
 (c) 52% (d) 51%
100. Four books are to be distributed among seven students. If no student gets more than one book, then the number of ways possible to do it is?
 (a) 180 (b) 240
 (c) 260 (d) 210

Answer Key

1-b	2-b	3-d	4-c	5-d	6-c	7-a	8-d	9-a	10-d
11-c	12-c	13-d	14-c	15-d	16-c	17-c	18-c	19-a	20-b
21-b	22-d	23-d	24-d	25-c	26-a	27-c	28-d	29-d	30-b
31-c	32-b	33-c	34-d	35-a	36-d	37-b	38-b	39-a	40-a
41-c	42-c	43-c	44-d	45-a	46-d	47-c	48-b	49-a	50-a
51-d	52-d	53-a	54-b	55-b	56-b	57-b	58-b	59-d	60-c
61-d	62-d	63-a	64-b	65-b	66-a	67-d	68-c	69-c	70-d
71-b	72-d	73-a	74-a	75-c	76-a	77-c	78-c	79-c	80-b
81-b	82-a	83-d	84-d	85-a	86-b	87-d	88-d	89-a	90-a
91-b	92-c	93-c	94-d	95-c	96-a	97-b	98-c	99-d	100-d

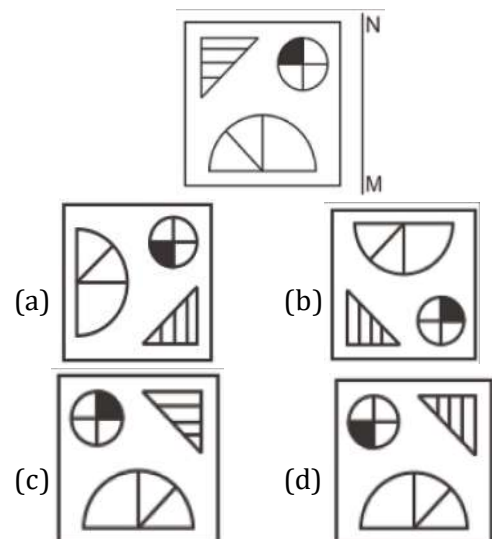
- From the given alternatives, select the word which CANNOT be formed using the letters of the given word. Information
 (a) From (b) Action
 (c) Motion (d) Norm
- In a certain code language, "TRUMP" is written as "46321" and "GRAIN" is written as "76598". How is "GRUNT" written in that code language?
 (a) 23684 (b) 23847
 (c) 67834 (d) 76384
- In a certain code language, '-' represents 'x', '÷' represents '+', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.
 $2 \times 12 \div 32 - 5 + 4 = ?$
 (a) 17 (b) 34
 (c) 28 (d) 30
- The following equation is incorrect. Which two signs should be interchanged to correct the equation?
 $14 + 8 \div 16 - 9 \times 12 = 10$
 (a) + and ÷ (b) - and +
 (c) + and x (d) ÷ and x
- If $-3\%1 = 3$, $3\%6 = -18$ and $-7\%4 = 28$, then find the value of $-2\%9 = ?$
 (a) 47 (b) -63
 (c) 18 (d) -30
- Which of the following terms follows the trend of the given list? ABABACCB, ABABCCAB, ABACCBAB, ABCCABAB, ACCBABAB, _____.
 (a) ABABABCC (b) CCABABAB
 (c) ABABACCB (d) ABABCCAB
- A woman while shopping in a mall pushes her trolley 20 metres through an alley which is going East, then she turns to her left and walks 30 metres, then she turns West and walks another 30 metres, then she turns South and walks 30 metres and then she turns West and walks 25 metres. Where is she now with reference to her starting position?
 (a) 35 metres West (b) 5 metres West
 (c) 35 metres East (d) 5 metres East
- Statement I: No clocks are watches.
 Statement II: No ornaments are clocks
 Conclusion I: Some watches are ornaments

- Conclusion II: All ornaments are watches
 (a) Only conclusion I follows
 (b) Only conclusion II follows
 (c) Both conclusions I and II follow
 (d) Neither conclusion I nor conclusion II follows
- Statement I: All cakes are pastries
 Statement II: Some bread are cakes
 Conclusion I: No pastries are bread
 Conclusion II: Some bread are pastries
 (a) Only conclusion I follows
 (b) Only conclusion II follows
 (c) Both conclusions I and II follow
 (d) Neither conclusion I nor conclusion II follows
 - In the following figure, rectangle represents Chefs, circle represents Choreographers, triangle represents Divers and square represents Americans. Which set of letters represents Americans who are either Choreographers or Divers?



- (a) CDE (b) EGI
 (c) DEH (d) BCH

- If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



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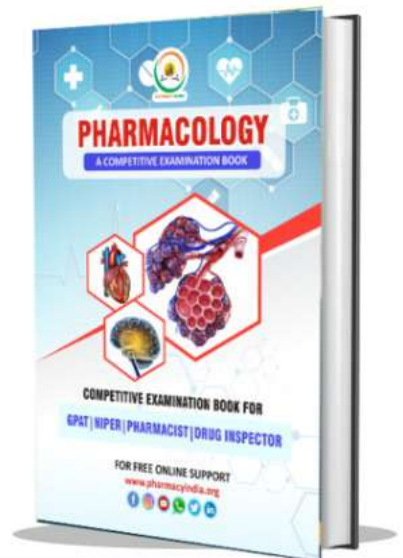
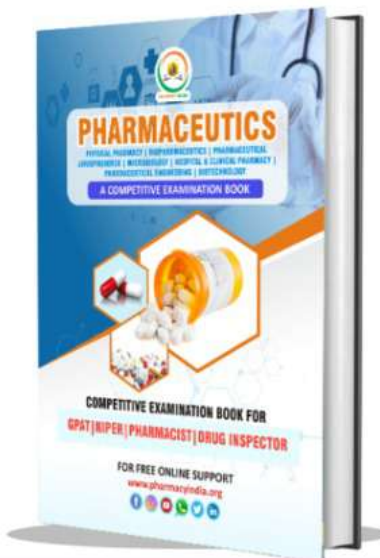


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