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PAPER 1

General Pharmacological Principles and Respiratory System Drugs

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1. **Who discovered the antimicrobial effect of Prontosil**
(a) Alexander Fleming (b) Selman Waksman
(c) Gerhard Domagk (d) Paul Ehrlich

2. **A patient with multiple sclerosis has been prescribed interferon therapy for long-term home administration. The physician advises that the patient can safely administer the injection without assistance. Which route and site are most appropriate for self-administration**
(a) Intramuscular injection into the deltoid muscle
(b) Intradermal injection over the forearm
(c) Subcutaneous injection into the abdomen or thigh
(d) Intravenous injection through a peripheral vein

3. **Reduction in the number of functional receptors following prolonged agonist stimulation is referred to as**
(a) Up regulation (b) Down regulation
(c) Controlled regulation (d) Growth regulation

4. **A pharmacologist is classifying drugs based on their natural origin. Which of the following drugs is obtained from an animal source**
(a) Dicoumarol (b) Heparin
(c) Insulin-human (d) Morphine

5. **Which of the following statement about Placebo drug is CORRECT**
Statement I- All patient responds to placebo
Statement II- Placebo do induce physiological response
Statement III- Placebo is a dummy medication
Statement IV- Placebo is inert material added to drug for making tablets
(a) I & III only (b) I & II only
(c) II & III only (d) All of these

6. **The therapeutic index is the ratio of**
(a) LD_{50} to ED_{50} (b) ED_{50} to LD_{50}
(c) IC_{50} to LD_{50} (d) IC_{50} to ED_{50}

7. **A competitive inhibitor of an enzyme is characterized by its ability to**
(a) Increase in K_m (b) Decrease in K_m
(c) Increase in V_{max} (d) Decrease in V_{max}

8. **Which of the following does not require biotransformation to become pharmacologically active**
(a) Proguanil (b) Enalapril
(c) Ranitidine (d) Prednisone

9. **The term "prodrug" refers to a compound that**
(a) Produces therapeutic effects without metabolism
(b) Is pharmacologically inactive and requires metabolic activation to produce its therapeutic effect
(c) Is always converted into a toxic metabolite
(d) Prevents the metabolism of other drugs

10. **The majority of clinically used drugs cross biological membranes because of their lipid solubility and concentration gradient. Which transport mechanism primarily mediates this process**
(a) Passive diffusion (b) Facilitated diffusion
(c) Active transport (d) Endocytosis

11. **Consider the following statements regarding orphan drugs**
(P) They are developed for the treatment of rare diseases
(Q) The pharmaceutical market for these drugs is generally small
(R) Governments often provide incentives to encourage their development
(S) They are exclusively used for infectious diseases
Which of the above statements is/are CORRECT
(a) P, Q and R only (b) P and S only
(c) Q and R only (d) P, Q, R and S

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27. Assertion (A): Phase II clinical trials are performed on patients to evaluate efficacy and determine the appropriate dose range Reason (R): Phase II trials are generally conducted at 2–4 centres with about 100–500 patients

(a) Both A and R are true and R is the correct explanation of A
(b) Both A and R are true but R is not the correct explanation of A
(c) A is true but R is false
(d) A is false but R is true

28. When a drug is evaluated for its usefulness in controlled conditions, it is termed as a trial signifying

(a) Efficacy (b) Effectiveness
(c) Efficiency (d) Effect modification

29. A newly developed anticancer drug showed promising results in preclinical studies. Since patients with advanced cancer have limited treatment options, the regulatory authority permits a combined Phase I/II clinical trial instead of conducting the two phases separately. What is the primary purpose of this combined trial

(a) To establish long-term safety in the general population
(b) To simultaneously determine the safe dose and obtain preliminary evidence of efficacy
(c) To compare the new drug with the standard treatment in a large population
(d) To monitor rare adverse drug reactions after marketing

30. There are some undesirables but unavoidable pharmacodynamic effects of a drug, which are known as

(a) Toxic effects (b) Idiosyncrasy
(c) Side effects (d) Intolerance

31. A patient develops anaphylaxis after receiving a small dose of penicillin for the first time in the current treatment course. Which statement best explains this adverse drug reaction

(a) It is a predictable, dose-dependent pharmacological effect
(b) It is a rare, unpredictable reaction that is not related to the drug dose
(c) It occurs because the therapeutic dose of penicillin is too high
(d) It is a common adverse effect seen in most patients

32. A patient taking morphine for chronic pain notices that the original dose no longer provides adequate analgesia, and the physician gradually increases the dose to maintain the same effect. This phenomenon is known as

(a) Withdrawal
(b) Tolerance
(c) Psychological dependence
(d) Physiological dependence

33. Which hypersensitivity reaction, based on its immune mechanism, is also known as arthus reaction

(a) Type I hypersensitivity
(b) Type II hypersensitivity
(c) Type III hypersensitivity
(d) Type IV hypersensitivity

34. Match the following poisons with their respective antidotes

Poison	Antidote
I. Opium	1. Calcium disodium EDTA
II. Insulin	2. Protamine sulfate
III. Heparin	3. Nalorphine
IV. Lead	4. Glucagon

(a) I-3, II-4, III-2, IV-1 (b) I-4, II-1, III-3, IV-2
(c) I-4, II-2, III-3, IV-1 (d) I-1, II-4, III-2, IV-3

35. Consider the following statements regarding Adverse Drug Reactions (ADRs)

(P) Type A (Augmented) reactions are dose-dependent and generally predictable from the known pharmacological action of the drug

(Q) Type B (Bizarre) reactions include allergic and idiosyncratic reactions and are usually not dose-dependent

(R) Type C reactions are associated with chronic drug use, whereas Type D reactions appear after a delayed period

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Drugs Acting on Kidney and Drugs Acting on Autonomic Nervous System

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1. Maximum Na^+ reabsorption occurs at
(a) Proximal tubule (b) Loop of Henle
(c) Distal tubule (d) Collecting duct

2. Which of the following is a high ceiling diuretic
(a) Furosemide (b) Spironolactone
(c) Acetazolamide (d) Thiazide

3. Consider the following statements regarding furosemide
P. It may cause hyperuricemia
Q. It can damage 8th cranial nerve especially in high doses
R. It causes hypercalcemia by increasing calcium reabsorption
S. It commonly causes hypokalemia
T. It may cause hyperglycemia
Which of the above statements is/are correct
(a) P, Q, S and T only (b) P, R and T only
(c) Q, R and S only (d) P, Q, R, S and T

4. Chronic thiazide therapy causes persistent hypercalcemia due to
(a) Renal tubular acidosis
(b) Fanconi's syndrome
(c) Hypervitaminosis D
(d) Hyperparathyroidism

5. Which of the following is NOT an expected effect of chronic thiazide therapy
(a) Increased serum uric acid levels
(b) Increased blood glucose levels
(c) Increased urinary calcium excretion
(d) Hypokalemia

6. All of the following differentiate furosemide from thiazide diuretics
(a) Rapid onset of diuretic action
(b) High-ceiling natriuretic effect
(c) Greater efficacy in severe renal impairment
(d) Potassium-sparing property

7. The diuretic group that does not require access the tubular lumen to induce diuresis is
(a) Carbonic anhydrase inhibitor
(b) Na^+ Cl^- symport inhibitor
(c) Mineralocorticoid antagonist
(d) Na^+ K^+ symport inhibitor

8. Osmotic diuretics produce all of the following effects EXCEPT
(a) Increase intravascular volume initially
(b) Increase urine flow by retaining water in the tubular lumen
(c) Reduce intracranial and intraocular pressure
(d) Cause hypokalemia by blocking the Na^+–K^+–$2Cl^-$ cotransporter

9. Furosemide should not be administered with NSAIDs because latter
(a) Prevent platelet aggregation
(b) Inhibit prostacyclin synthesis
(c) Decrease sodium reabsorption
(d) Increase the secretion of furosemide in urine

10. ADH (Antidiuretic hormones) acts on
(a) Proximal convoluted tubule
(b) Distal convoluted tubule
(c) Loop of Henle
(d) Collecting duct

11. A vasopressin analogue does not produce therapeutic effect through vasopressin V_2 receptor in which one of the following
(a) Central diabetes insipidus
(b) Bleeding esophageal varices
(c) Type-1 von Willebrand's disease
(d) Primary nocturnal enuresis

12. Acute uric acid nephropathy, which is characterized by the acute overproduction of uric acid and by extreme hyperuricemia, can best be prevented with which of the following
(a) Antidiuretic hormone (ADH) [vasopressin (VP)]
(b) Cyclophosphamide
(c) Allopurinol
(d) Amiloride

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32. Drug of choice for treatment of infection caused by methicillin-resistant *Staphylococcus aureus* is
(a) Macrolide
(b) Third generation cephalosporins
(c) Carbapenems
(d) Glycopeptides

33. Which of the following is a fourth generation cephalosporin
(a) Ceftriaxone (b) Cefaclor
(c) Cefepime (d) Cefuroxime

34. Patients suffering from multidrug resistant tuberculosis can be treated with all the following drugs EXCEPT
(a) Tobramycin (b) Amikacin
(c) Ciprofloxacin (d) Clarithromycin

35. Anti-TB therapy causing orange-coloured urine
(a) Rifampicin (b) Isoniazid
(c) Ethambutol (d) Pyrazinamide

36. All of the following are true about therapy for tuberculosis, EXCEPT
(a) 'Flu like syndrome' is usually seen in people taking rifampicin on daily basis
(b) Ethambutol accumulates in renal failure
(c) Hyperuricemia is a recognized side effect of pyrazinamide
(d) Red-green colour impairment is an early sign of ethambutol-induced optic neuritis

37. All of the following antimicrobial agents are used topically EXCEPT
(a) Clotrimazole (b) Griseofulvin
(c) Nystatin (d) Miconazole

38. Which of the following is caused by amphotericin B
(a) Hypokalemia (b) Hyperkalemia
(c) Hypermagnesemia (d) Hyponatremia

39. Liposomal amphotericin B has the following advantage over conventional amphotericin B
(a) Lesser nephrotoxicity
(b) Lesser cost
(c) Absence of infusional toxicity
(d) Once-a-week administration

40. Toxicity of amphotericin B can be reduced by using
(a) A liquid preparation
(b) Granules
(c) A liposomal preparation
(d) Subcutaneous administration

41. Which drug treats both dermatophytosis and candidal infection
(a) Ketoconazole (b) Griseofulvin
(c) Nystatin (d) Tolnaftate

42. Which is not an antiviral drug
(a) Vidarabine (b) Acyclovir
(c) Zidovudine (d) Mitomycin

43. Ganciclovir is used in the treatment of
(a) Adenovirus (b) Cytomegalovirus
(c) EB virus (d) Arenavirus

44. Chloroquine acts on
(a) Merozoites (b) Blood schizont
(c) Tissue schizont (d) Gametocytes

45. Chloroquine is used in all EXCEPT
(a) Intestinal amoebiasis
(b) Hepatic amoebiasis
(c) DLE (discoid lupus erythematosus)
(d) Malaria

46. Mefloquine is contraindicated with
(a) Quinine (b) Atenolol
(c) Enalapril (d) Verapamil

47. Which drug can be used for chloroquine-resistant malaria in children
(a) Mefloquine (b) Doxycycline
(c) Tetracycline (d) Clindamycin

48. Treatment of choice for severe falciparum malaria is
(a) Chloroquine (b) IV artesunate
(c) IV quinine (d) IV quinidine

49. Drug of choice for cerebral malaria is
(a) Mefloquine (b) Quinine
(c) Chloroquine (d) Primaquine

50. Biosynthetic penicillins are effective against
(a) Gram-positive and gram-negative cocci, Corynebacterium diphtheria, spirochetes, Clostridium gangrene
(b) Corynebacterium diphtheria, mycobacteries
(c) Gram-positive cocci, viruses
(d) Gram-negative cocci, Rickettsia, mycotic infections

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TOPIC WISE QUESTION PAPER ANSWER KEY

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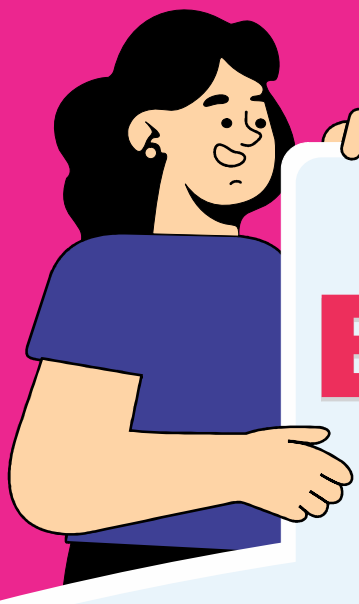
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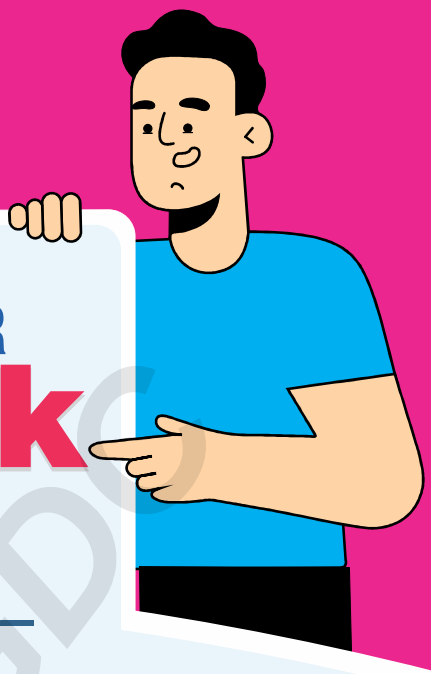
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SECTION-2

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Pharmacology and Allied Subjects

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1. **Consider the following therapeutic uses of propranolol**
   P. Migraine prophylaxis
   Q. Hyperthyroidism (symptomatic relief)
   R. Essential tremor
   S. Prinzmetal (variant) angina
   Choose the correct answer
   (a) P, Q and R only (b) P and S only
   (c) Q and R only (d) P, Q, R and S
2. **Which of the following antimuscarinic drugs is NOT indicated for the treatment of urge urinary incontinence**
   (a) Oxybutynin (b) Solifenacin
   (c) Tiotropium (d) Tolterodine
3. **Which statement regarding plasma half-life (t½) is TRUE**
   (a) It is the time required to eliminate the entire drug from plasma
   (b) It is calculated from the a-slope in routine clinical practice
   (c) It is the time required for plasma concentration to decrease by 50%, and is usually derived from the β-phase
   (d) It remains constant regardless of the order of elimination kinetics
4. **Drug of choice in Acute central anticholinergic syndrome is**
   (a) Neostigmine (b) Physostigmine
   (c) Tacrine (d) 4-amino pyridine
5. **Which of the following sympathomimetic drugs has mixed α_1, α_2, β_1 and $\beta_2$agonistic activity**
   (a) Epinephrine (b) Dobutamine
   (c) Phenylephrine (d) Isoproterenol
6. **The major advantage of a generic drug over its branded counterpart is**
   (a) Higher efficacy
   (b) No regulatory approval required
   (c) Lower cost with equivalent therapeutic effect
   (d) Shorter shelf life
7. **Which of the following is the principal advantage of quaternary ammonium derivatives of belladonna alkaloids over atropine for gastrointestinal antispasmodic and antisecretory therapy**
   (a) They possess additional nicotinic receptor-blocking activity
   (b) They are poorly absorbed from the gastrointestinal tract and have minimal CNS penetration
   (c) They are more potent muscarinic receptor antagonists than atropine
   (d) They produce a longer duration of action than atropine
8. **Most commonly used DMARD in Rheumatoid arthritis is**
   (a) Leflunomide (b) Methotrexate
   (c) Hydroxychloroquine (d) Sulfasalazine
9. **Sumatriptan is used in**
   (a) Glaucoma (b) Migraine
   (c) Hypertension (d) Opioid withdraw
10. **Drug commonly causing analgesic nephropathy**
    (a) Aspirin (b) Ibuprofen
    (c) Phenacetin (d) Phenylbutazone
11. **A highway truck driver has profuse Rhinorrhea and sneezing. Which amongst the following drugs would you prescribe him**
    (a) Pheniramine (b) Promethazine
    (c) Dimenhydrinate (d) Cetirizine
12. **Which of the following β-Lymphocyte depletor used in rheumatoid arthritis**
    (a) Nimesulide (b) Anakinra
    (c) Rituximab (d) Chloroquine

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1. Select the option that can be used as a one-word substitute for the given group of words.
The land that is best suitable for growing crops
(a) Arable (b) Barren
(c) Fruitful (d) Rustic

2. Select the most appropriate meaning of the given idiom.
To bite the dust
(a) To eat something greedily
(b) To face hunger
(c) To be defeated or fail
(d) To work very hard

3. Select the most appropriate ANTONYM of the underlined word. You seem to be mean to your seniors.
(a) apathetic (b) modest
(c) rude (d) sympathetic

4. Select the most appropriate ANTONYM of the given word.
Procrastination
(a) Hesitance (b) Eagerness
(c) Timidness (d) Hawing

5. In the following question, out of the four alternatives, select the word opposite in meaning to the word given.
Befuddle
(a) Baffle (b) Daze
(c) Fluster (d) Explicate

6. Select the most appropriate synonym of the underlined word.
The news of her promotion left her feeling buoyant, with a sense of accomplishment and pride in her work.
(a) Cheerful (b) Peculiar
(c) Dour (d) Shy

7. Select the most appropriate synonym of the word in bold in the given sentence. It is universally acknowledged that trees are indispensable to us.
(a) Unusual (b) Essential
(c) Rational (d) Fierce

8. Select the most appropriate synonym of the underlined word.
The management gave kudos to Jithin for his performance.
(a) praise (b) criticism
(c) punishment (d) admonishment

9. Select the most appropriate meaning of the given idiom.
On the back foot
(a) In a relaxed state (b) Situated farther away
(c) At a disadvantage (d) In a hurry

10. Select the correct idiom to substitute the underlined segment in the following sentence.
Roma was the dearest child of her parents.
(a) At sixes and sevens with her parents
(b) The apple of her parents' eyes
(c) The star of her parents' eyes
(d) The body and soul of her parents

11. Fill in the blank with the appropriate word :
She will go out only when the rain _____ .
(a) is stopping (b) stop
(c) stops (d) stopped

12. Fill in the blank with the appropriate word:
My wife always _____in the evening.
(a) cooks (b) cook
(c) has cooked (d) is cooking

13. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. As soon as (1)/I reach my office (2)/I will mail you the files. (3)/No Error (4)
(a) 1 (b) 2 (c) 3 (d) 4

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PAPER 41

Model Paper - 1

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1. **The drug which is given by oral route is**
   (a) Penicillin (b) Insulin
   (c) Paracetamol (d) All of these
2. **Physiological antagonism occurs between**
   (a) Adrenaline and Histamine
   (b) Acetylcholine and Atropine
   (c) Morphine and Naloxone
   (d) Alkaloid and Tannins
3. **The neurotransmitter whose release is inhibited by botulinum toxin at parasympathetic nerve terminals is**
   (a) Norepinephrine (b) Dopamine
   (c) Epinephrine (d) Acetylcholine
4. **All of the following drugs possess uterine relaxant activity, EXCEPT**
   (a) Ritodrine (b) Terbutaline
   (c) Isoxsuprine (d) Methylergometrine
5. **Acute asthma is NOT treated with**
   (a) Salbutamol (b) Ipratropium bromide
   (c) Theophylline (d) Hydrocortisone
6. **In insulin dependent diabetic patient, to control severe Ketoacidosis the antidiabetic agent used is**
   (a) Protamine zinc insulin
   (b) Isophane
   (c) Crystalline zinc insulin
   (d) Tolbutamide
7. **Dissociative anaesthesia is produced by**
   (a) Ketamine (b) Fentanyl
   (c) Propofol (d) Desflurane
8. **Cocaine obtained from Erythroxylon coca act by**
   (a) Block nerve transmission
   (b) Decrease uptake of dopamine. norepinephrine
   (c) Both (a) and (b)
   (d) None of these
9. **Drug NOT given in head injury**
   (a) Rofecoxib (b) Morphine
   (c) NSAIDs (d) All of these
10. **The risk of digitalis toxicity is increased by concomitant administration of**
    (a) Triamterene (b) Captopril
    (c) Lidocaine (d) Hydrochlorothiazide
11. **The Xenobiotics that does not causes nephrotoxicity is**
    (a) Streptozotocin (b) Cisplatin
    (c) Isoniazid (d) Gentamycin
12. **Mannitol Injection is used as**
    (a) Fluid and electrolytic replenisher
    (b) Laxative
    (c) Diagnostic aid and diuretic
    (d) Sedative
13. **High efficacious and most commonly used LDL cholesterol lowering HMG-CoA reductase inhibitor**
    (a) Lovastatin (b) Simvastatin
    (c) Atorvastatin (d) Pravastatin
14. **Mechanism of Isoniazid action is**
    (a) Inhibition of protein synthesis
    (b) Inhibition of mycolic acid synthesis
    (c) Inhibition of RNA synthesis
    (d) Inhibition of ADP synthesis
15. **All of the following antimycobacterial drugs have a bactericidal effect, EXCEPT**
    (a) Sulphonamide (b) Streptomycin
    (c) Rifampin (d) Isoniazid
16. **Tick the drugs for the treatment of an intestinal form of amebiasis**
    (a) Metronidazole and Diloxanide
    (b) Diloxanide and streptomycin
    (c) Diloxanide and iodoquinol
    (d) Emetine and metronidazole

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1. **Which of the following is not a multitasking operating system**
   (a) Windows (b) Linux
   (c) Win NT (d) DOS
2. **_____is a network Security device that grants or rejects network access to traffic flows between an untrusted zone and a trusted zone**
   (a) Hub (b) Router
   (c) Firewall (d) Bridge
3. **Which of the following is a type of wired internet connection**
   (a) Mobile data (b) Wi-Fi
   (c) Satellite (d) DSL
4. **Which of the following service allows a user to log in to another computer somewhere on the Internet**
   (a) e-mail (b) UseNet
   (c) Telnet (d) FTP
5. **Which of the following statements about the World Wide Web (WWW) is incorrect**
   (a) It was invented by Tim Berners-Lee
   (b) It is a collection of websites or web pages that are stored on a web server
   (c) It is an intranet, which is established as a private network in an organization
   (d) In WWW. web pages are accessed using the HTTP protocol
6. **A student notices that arithmetic results appear instantly, but loading data from main memory is slower. Which CPU feature primarily reduces this delay by keeping frequently used data close to the processor**
   (a) Address Decoder (b) CPU Fan
   (c) Cache Memory (d) Instruction Set
7. **What is the alternative name for application software**
   (a) End-user software (b) Utility software
   (c) Specific software (d) All of these
8. **Knowing the password of a user for hacking is called**
   (a) Sneaking (b) Spoofing
   (c) Cyber stalking (d) Spamming
9. **What is the overall term for creating, editing, storing, retrieving and printing a document**
   (a) Data base management
   (b) Web design
   (c) Word processing
   (d) Spreadsheet design
10. **Which one of the following is not an option of edit menu in Microsoft Word**
    (a) Cut (b) Copy
    (c) Page setup (d) Paste
11. **Give a one-word substitute for**
    Yearly celebration of a date or an event
    (a) Birthday (b) Anniversary
    (c) Jubilee (d) Centenary
12. **Give a one-word substitute for**
    One who sacrifices his life for a cause
    (a) Patriot (b) Martyr
    (c) Soldier (d) Revolutionary
13. **Choose the antonym of**
    Vague
    (a) Disunite (b) Cool
    (c) Wicked (d) Definite
14. **Choose the antonym of**
    Compliance
    (a) Refusal (b) Appreciation
    (c) Acceptance (d) Assistance
15. **Select the most appropriate ANTONYM of the given word**
    Whimsical
    (a) Practical (b) Fickle
    (c) Illogical (d) Confident

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57. Profit of Rs 42,500 has to be divided between three partners A, B and C in the ratio 3:5:9. How much (in Rs) does A get

(a) 12500 (b) 9500
(c) 22500 (d) 7500

58. Two dice are thrown at the same time. What is the probability that the sum of the numbers on the top is 8

(a) $\frac{7}{-6}$ (b) $\frac{5}{36}$
(c) $\frac{1}{6}$ (d) $\frac{1}{9}$

59. The base of a cone and a cylinder have the same radius 6 cm. They also have the same height 8 cm. What is the ratio of the curved surface area of the cylinder to that of the cone

(a) 8 : 5 (b) 8 : 3
(c) 4 : 3 (d) 5 : 3

60. A tank is in the form of a cuboid with a length of 12 m. If 18 kilolitres of water is removed from it, the water level goes down by 30 cm. What is the width of the tank

(a) 5 m (b) 4.5 m
(c) 4 m (d) 5.5 m

61. Which of the following energy resources is considered exhaustible and polluting in India

(a) Wind (b) Coal
(c) Solar (d) Biogas

62. Which of the following is NOT a way in which underground water reaches the surface

(a) Through springs (b) Through wells
(c) Through hand pumps (d) Through evaporation

63. Which biotic component of an ecosystem is present in the greatest number

(a) Primary Consumers (b) Producers
(c) Secondary Consumers (d) Tertiary Consumers

64. Which of the following is INCORRECT regarding the flow of energy between various components of the environment

(a) The amount of organic matter present at each trophic level is 10%.
(b) Energy flow is unidirectional.
(c) Green plants capture about 10% of the solar energy that falls on leaves.
(d) Every trophic level loses some energy as heat to the environment.

65. How many biosphere reserves are present in India

(a) 41 (b) 34 (c) 18 (d) 43

66. Who proposed the concept of "ecosystem"

(a) Charles Lyell (b) Ernst Haeckel
(c) Charles Elton (d) Tansley

67. Estuaries, coastlines, coral reefs are the types of

(a) fresh water (b) marine water
(c) lake water (d) pond water

68. The process of accumulation of harmful chemicals in higher trophic levels is called:

(a) Eutrophication (b) Bioaccumulation
(c) Biomagnification (d) Bioremediation

69. Which process is responsible for the conversion of ammonia into nitrites

(a) Nitrification (b) Ammonification
(c) Denitrification (d) Nitrogen fixation

70. Which one of the following is not a site for the in-situ method of conservation of Flora

(a) Botanical Garden (b) Wildlife Sanctuary
(c) National Park (d) Biosphere Reserve

71. In a certain code language, '+' represents '×', '-' represents '+', '×' represents '÷' and '÷' represents '-'. What is the answer to the following question

72 × 9 - 14 + 2 = ?

(a) 20 (b) 86 (c) 30 (d) 36

72. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements

Statement I : All drinks are food
Statement II : No eatables are drinks
Conclusion I : Some food are eatables
Conclusion II : Some eatables are food

(a) Only conclusion I follows
(b) Only conclusion II follows

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(a) Father's sister (b) Mother's sister
(c) Mother's mother (d) Sister's daughter

91. In a certain code language:

- **A + B** → A is the **mother** of B
- **A " B** → A is the **brother** of B
- **A × B** → A is the **wife** of B
- **A % B** → A is the **father** of B
- **A # B** → A is the **daughter** of B

Which of the following means that Q is the sister of the wife of L

I. V % Q # K + Z " T × L
II. V + Q # K % Z " T + L
III. V # K × Q % L + T # Z
IV. V + Q # G " Z % T + L

(a) Both I and III (b) Both II and IV
(c) Only I (d) Only IV

92. Uma ranked 8th from the top and 37th from bottom in a class. How many students are there in the class

(a) 47 (b) 46
(c) 45 (d) None of these

93. BXJ, ETL, HPN, KLP, ?

(a) PHR (b) NIR
(c) NHR (d) MHR

94. What will come at the place of the question mark

1, 9, 25, 49, ?, 121

(a) 100 (b) 91 (c) 64 (d) 81

95. What will come at the place of the question mark

7, 26, 63, 124, 215, 342, ?

(a) 391 (b) 511
(c) 481 (d) 421

96. Some boys are sitting in a row. P is sitting fourteenth from the left and Q is seventh from the right. If there are four boys between P and Q, how many boys are there in the row

(a) 19 (b) 21 (c) 25 (d) 23

97. The angle between the hour hand and the minute hand of a clock at 3:40 pm is

(a) 125° (b) 130°
(c) 120° (d) 135°

98. PUF, QVG, RWH,?

(a) SXI (b) SYZ
(c) SXJ (d) SVE

99. It was Sunday on January 1, 2006. What was the day of the week on January 1, 2010

(a) Sunday (b) Saturday
(c) Friday (d) Wednesday

100. A, B, C, D, E, F and G are sitting in a row facing North

I. F is immediately to the right of E.
II. E is 4th to the right of G.
III. C is the neighbour of B and D.
IV. The person who is third to the left of D is at one of the ends.

Who are the neighbour of B

(a) C and D (b) C and G
(c) G and F (d) C and E

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SUBJECT WISE QUESTION PAPER ANSWER KEY

PAPER - 31 | PHARMACOLOGY AND ALLIED SUBJECTS

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

PAPER - 32 | PHARMACEUTICS AND ALLIED SUBJECTS

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

PAPER - 33 | PHARMACEUTICAL CHEMISTRY AND ALLIED SUBJECTS

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

PAPER - 34 | PHARMACOGNOSY

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