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KAPS Exam Paper 2

Sample Paper 1

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Information

This is a sample paper of the Knowledge Assessment of Pharmaceutical Sciences (KAPS) Paper 2 exam produced by the Australian Pharmacy Council Ltd (APC) for **practice purposes only**.

The KAPS Paper 2 exam consists of 100 multiple-choice-questions and candidates have 2 hours to complete it.

This sample paper demonstrates questions from all competency areas assessed in the exam. For additional information on the content areas candidates are encouraged to refer to the [KAPS exam guide and sample papers](#).

All questions in this sample paper are no longer used in our current exams and have been chosen to allow candidates to gain exposure to the format and layout of questions in the exam.

Live or actual KAPS Paper 2 exams will vary from this sample paper and are delivered by computer. An [online tutorial](#) is available and provides candidates with the opportunity to learn how to navigate through the exam software.

We have also included an answer sheet at the end of the paper.

Please note that while the sample paper is reviewed frequently, the APC does not guarantee that the answers are accurate once published due to interim changes that may occur in ever changing practice settings, guidelines or legislation.

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Sample Questions

1. You have been asked to prepare an aqueous solution containing 1 g of benzalkonium chloride in 2 L by diluting a 10% stock solution with water.

How many mL of water will be required?

- A. 1690 mL
- B. 1800 mL
- C. 1900 mL
- D. 1990 mL

2. Which ONE of the following drugs inhibits monoamine oxidase?

- A. Amitriptyline
- B. Linezolid
- C. Naltrexone
- D. Furosemide

3. Carbamazepine therapy does **NOT** require monitoring of which of the following?

- A. Liver function
- B. Skin reactions
- C. Lung function
- D. Complete blood count

4. Which ONE of the following drugs would increase serum clozapine levels?

- A. Clonazepam
- B. Omeprazole
- C. Oxybutynin
- D. Fluvoxamine

5. Aspirin is **NOT** known to interact with which medicine class?

- A. Coumarin anticoagulants
- B. Oral hypoglycaemic agents
- C. Monoamine oxidase inhibitors
- D. Selective serotonin reuptake inhibitors

6. What should dose adjustments in patients with renal impairment be based on?

- A. Urine volume produced in a 24-hour period
- B. Glucose level in the patient's urine output
- C. The patient's serum albumin concentration
- D. The patient's creatinine clearance

7. An injection formulated as a suspension is **NOT** a suitable for administration by which route?

- A. Intra-articular
- B. Intramuscular
- C. Intravenous
- D. Subcutaneous

8. A prescription calls for 0.1% chlorhexidine hydrochloride in an oil-in-water emulsion cream base.

What would be the **MOST** suitable emulsifier for the base preparation?

- A. Sodium lauryl sulphate
- B. Wool alcohols
- C. Cetrimide
- D. Sodium stearate

9. Which ONE of the following may cause an elevation of plasma lithium levels with a resultant risk of toxicity?

- A. Moderate exercise
- B. Salt-intake reduction
- C. Smoking cessation
- D. Hypothyroidism

10. What is the purpose of including alum in the formulation below?

| Ingredient | Quantity |
|-------------------------------|----------|
| Chalk | 1.5 g |
| Light kaolin | 2.5 g |
| Alum | 10 mg |
| Concentrated chloroform water | 0.25 mL |
| Purified water | 10 mL |

- A. Act as a flocculant
- B. Act as a preservative
- C. Act as an astringent
- D. Act as a chelating agent

11. How much of a 10% injection of a drug is required to make 100 mL of a mixture containing 7.5 mg in 2.5 mL?

- A. 0.03 mL
- B. 0.3 mL
- C. 3 mL
- D. 30 mL

12. Which ONE of the following is **LEAST** appropriate regarding aciclovir for herpes zoster (shingles)?

- A. It will be less effective if started more than 72 hours after the onset of the rash
- B. It will reduce the duration of herpes zoster related pain
- C. It should be taken FIVE times a day for 7 days
- D. Fluid intake should be kept to a minimum during the course of treatment

13. Which ONE of the following drugs is active against methicillin-resistant *staphylococcus aureus*?

- A. Gentamicin
- B. Clarithromycin
- C. Vancomycin
- D. Doxycycline

14. Which ONE of the following drugs is **MOST** likely to cause a clinically significant pharmacokinetic drug interaction with warfarin?

- A. Sodium valproate
- B. Paroxetine
- C. Omeprazole
- D. Fluconazole

15. Which ONE of the following would be the **MOST** appropriate treatment for a 75-year-old male with carcinoma of the prostate with metastasis?

- A. Tamsulosin
- B. Finasteride
- C. Leuprorelin
- D. Fludrocortisone

- 16.** What are daily doses for hydrochlorothiazide for an adult usually in the range of?
- A. 0.5-1 mg
 - B. 2-5 mg
 - C. 6.25-25 mg
 - D. 50-100 mg
- 17.** At what temperatures should total parenteral nutrition (TPN) fluids be stored between?
- A. 1°C and 4°C
 - B. 2°C and 8°C
 - C. 15°C and 20°C
 - D. 25°C and 35°C
- 18.** Which ONE of the following groups of adverse effects are associated with the anthracycline group of antineoplastic drugs?
- A. Neurotoxicity, constipation, alopecia
 - B. Ototoxicity, renal impairment, infertility
 - C. Cardiotoxicity, alopecia, nausea and vomiting
 - D. Renal toxicity, hepatotoxicity, oral ulceration
- 19.** Which of the following beta blockers is predominantly renally cleared?
- A. Atenolol
 - B. Metoprolol
 - C. Oxprenolol
 - D. Carvedilol

20. What dosing regimen is **MOST** appropriate when starting levothyroxine for a frail, elderly patient?

- A. 5 microgram twice daily
- B. 25 microgram daily
- C. 75 microgram daily
- D. 150 microgram daily

21. Salicylic acid has a pKa of 3.0 and undergoes significant renal tubular reabsorption.

How is the renal clearance of salicylic acid increased to the greatest extent in aspirin overdose?

- A. Acidification of the urine
- B. Alkalinisation of the urine
- C. Acidification of the urine plus forced diuresis
- D. Alkalinisation of the urine plus forced diuresis

22. If a patient is prescribed metered dose inhalers of salbutamol and beclometasone and is to use both TWICE a day, when should the beclometasone be used?

- A. 5 minutes after salbutamol
- B. Immediately after salbutamol
- C. 5 minutes before salbutamol
- D. Immediately before salbutamol

23. Morphine in a 70 kg patient taking 20 mg sustained release capsules twice daily was found to have a steady-state concentration of 4 nanogram/mL.

Assuming a bioavailability of 25%, what is the clearance of morphine from this patient?

- A. 30 L/hour
- B. 52 L/hour
- C. 104 L/hour
- D. 208 L/hour

24. What advice is **LEAST** appropriate for a patient prescribed long term rifampicin?

- A. Your urine may turn a red-orange colour
- B. You will require regular liver function tests
- C. Your iris colour may darken
- D. You will require regular blood count monitoring

25. Which ONE of the following represents the highest concentration?

- A. 10 mg/mL
- B. 100 parts per million (ppm)
- C. 1 in 20,000
- D. 1 mg/L

26. What is the name of a system composed of a liquid dispersed in a liquid?

- A. Suspension
- B. Gel
- C. Emulsion
- D. Aerosol

27. Which measure is used to monitor the effectiveness of enoxaparin therapy?

- A. Enoxaparin blood levels
- B. International Normalised Ratio (INR)
- C. Platelet count
- D. Antifactor Xa

28. Which of the following drugs has the longest half-life?

- A. Amiodarone
- B. Morphine
- C. Verapamil
- D. Amlodipine

29. Vancomycin doses should be reduced in patients with which ONE of the following?

- A. Pulmonary failure
- B. Hepatic impairment
- C. Heart failure
- D. Renal impairment

30. You are required to produce 1 L of sodium chloride solution of such a strength that when 20 mL is diluted to 100 mL with water, the resulting concentration will be 0.9% w/v.

You are to make this solution using sodium chloride 2.25 g tablets.

How many of these tablets are required to make the solution?

- A. 4.5
- B. 9
- C. 20
- D. 45

31. If the elimination half-life of penicillin G is approximately 0.5 hours and it is administered intravenously every 6 hours, which ONE of the following is **CORRECT**?

- A. Half the administered dose will be eliminated in 1 hour
- B. Little accumulation will occur
- C. Each dose will only act for half an hour
- D. It will take 6 hours for each dose to be eliminated

32. Which ONE of the following is **NOT** an adverse effect of tricyclic antidepressants?

- A. Sedation
- B. Diarrhoea
- C. Blurred vision
- D. Urinary retention

33. Which ONE of the following drugs is generally avoided in children under 12 years of age?

- A. Norfloxacin
- B. Amoxicillin
- C. Azithromycin
- D. Rifampicin

34. A laxative is **MOST** likely to be used to manage a common adverse effect of which medication?

- A. Piroxicam
- B. Oxycodone
- C. Cefalexin
- D. Dexamethasone

35. Which ONE of the following drugs is the **LEAST** appropriate for acute treatment of migraine?

- A. Oxycodone
- B. Ibuprofen
- C. Sumatriptan
- D. Aspirin

36. Why is lignocaine unsuitable for oral administration?

- A. It is not absorbed from the gastrointestinal tract
- B. It undergoes significant first pass metabolism in the liver
- C. It is decomposed by gastric acid
- D. It binds to mucoproteins in the intestine

37. Which ONE of the following gram-positive organisms and anaerobes is resistant to treatment by the broad spectrum antibiotic clindamycin?

- A. *Staphylococcus saprophyticus*
- B. *Clostridium perfringens*
- C. *Haemophilus influenzae*
- D. *Actinomyces*

38. Which ONE of the following drugs is **NOT** a racemate?

- A. Ibuprofen
- B. Citalopram
- C. Esomeprazole
- D. Dicloxacillin

39. Which ONE of the following drugs does **NOT** cause syndrome of inappropriate anti-diuretic hormone (SIADH)?

- A. Cyclophosphamide
- B. Chlorpromazine
- C. Carbamazepine
- D. Captopril

40. Which suppository base is immiscible with bodily fluids?

- A. Gelatine
- B. Polyethylene glycol
- C. Cocoa butter
- D. Macrogol

- 41.** Fever, malaise and blistering of the skin and mucous membranes when taking carbamazepine is **MOST** likely to be due to which **ONE** of the following?
- A. Anaphylactic reaction
 - B. Serotonin syndrome
 - C. Type-1 hypersensitivity reaction
 - D. Stevens-Johnson syndrome
- 42.** What are the 5 classes of immunoglobulins (Ig)?
- A. A, B, C, D, E
 - B. A, B, D, E, G
 - C. A, B, E, G, M
 - D. A, C, E, G, M
- 43.** Therapeutic anticoagulation with unfractionated heparin (UFH) requires monitoring of which **ONE** of the following?
- A. International Normalised Ratio (INR)
 - B. Antifactor Xa
 - C. Activated partial thromboplastin time (aPTT)
 - D. Prothrombin time
- 44.** Long term phenytoin therapy has been known to cause which **ONE** of the following?
- A. Cough
 - B. Anorexia
 - C. Muscle cramps
 - D. Hirsutism

45. At 40°C and pH 7.25, cocaine has a half-life of 5 hours.

If the total extent of degradation is **NOT** allowed to be more than 10% what would the shelf-life be for cocaine under those conditions?

- A. 0.76 hours
- B. 1.52 hours
- C. 3 hours
- D. 7.5 hours

46. Which ONE of the following is a recommended treatment option for pain due to herpes zoster?

- A. Topical betamethasone dipropionate
- B. Transcutaneous electrical nerve stimulation (TENS)
- C. Topical capsaicin
- D. Topical tretinoin

47. Which ONE of the following compounds is **LEAST** likely to contribute to serotonin syndrome?

- A. Linezolid
- B. Tramadol
- C. Sertraline
- D. Olanzapine

48. What purpose does sodium metabisulfite have when used as an excipient?

- A. Buffering agent
- B. Antioxidant
- C. Oxidising agent
- D. Chelating agent

49. Why is metoclopramide often given in combination with oral aspirin for the treatment of acute migraine attacks?

- A. To slow down the absorption of other drugs from the gastric tract
- B. To increase absorption of other drugs and relieve gastric stasis
- C. To constrict cerebral blood vessels
- D. To provide a sedative effect in combination with muscle relaxation

50. Which type of insulin has a duration of action of less than 12 hours?

- A. Aspartin
- B. Detemir
- C. Glargine
- D. Isophane

51. Which ONE of the following statements is **INCORRECT** regarding methadone?

- A. Can be given parenterally
- B. Is an opioid antagonist
- C. Has a long elimination half-life
- D. Has significant analgesic activity

52. A patient is prescribed Lugol's Solution (5% iodine) 0.3 mL three times a day.

How much iodine does this provide each day?

- A. 15 mg
- B. 30 mg
- C. 45 mg
- D. 90 mg

53. Which statement describes cationic aqueous creams?

- A. Are incompatible with cations
- B. Activity of the emulsion is increased when mixed with anionic drugs
- C. Stability of the emulsion is increased when mixed with anionic drugs
- D. Contain surfactants as part of the primary emulsifying system

54. Which gentamicin treatment regimen is **MOST** likely to cause nephrotoxicity?

- A. 1 mg/kg three times a day for 14 days
- B. 1 mg/kg twice a day for 10 days
- C. 5 mg/kg once a day for 5 days
- D. 6 mg/kg once a day for 3 days

55. Small dose changes of which ONE of the following drugs may lead to disproportionate increases in plasma levels?

- A. Phenytoin
- B. Warfarin
- C. Digoxin
- D. Carbamazepine

56. What is a suitable method for the sterilisation of a solution of a thermolabile drug for ophthalmic use?

- A. Heating with a bactericide at 100°C for 30 minutes
- B. Autoclaving at 121°C for 15 minutes
- C. Aseptic filtration through a membrane filter of 0.2 micron pore size
- D. Add a bactericide to the formulation

57. What does the term "steady state" mean in relation to the plasma levels of a drug?

- A. The rate of drug administration equals the rate of drug elimination
- B. The dosing interval of the drug remains constant
- C. The therapeutically effective levels have been reached
- D. The protein binding of a drug has come to equilibrium

58. If a patient has a known sulfonamide allergy, cross-sensitivity is **LEAST** likely to occur with which ONE of the following drugs?

- A. Hydrochlorothiazide
- B. Sulfasalazine
- C. Celecoxib
- D. Ciprofloxacin

59. Which ONE of the following is **NOT** an official pharmacopeial testing procedure for tablets?

- A. Dissolution
- B. Hardness
- C. Disintegration
- D. Friability

60. Which ONE of the following is **NOT** used for treatment of epilepsy?

- A. Clonazepam
- B. Oxazepam
- C. Diazepam
- D. Lorazepam

61. When are particle size and crystal structure generally important factors in bioavailability of oral dosage forms?

- A. The drug is relatively insoluble in water (less than 1%)
- B. The molecular weight of the drug is high (exceeds 1000)
- C. The drug is administration as a solution
- D. The characteristics of the drug mean it is not absorbed from the gastrointestinal tract

62. Which ONE of the following drugs is **MOST** likely to be associated with pulmonary fibrosis?

- A. Trimethoprim
- B. Nitrofurantoin
- C. Spironolactone
- D. Salbutamol

63. At what age should an infant be given their first dose of measles vaccine?

- A. 1 year
- B. 2 years
- C. 3 years
- D. 4 years

64. Which ONE of the following drugs is **NOT** absorbed systemically when given orally?

- A. Cefalexin
- B. Nystatin
- C. Trimethoprim
- D. Rifampicin

65. Which ONE of the following is **NOT** an appropriate treatment of acne vulgaris?

- A. Salicylic acid
- B. Sulfur
- C. Hydrocortisone
- D. Benzoyl peroxide

66. What are daily doses of celecoxib for an adult usually in the range of?

- A. 1-20 mg
- B. 25-75 mg
- C. 100-400 mg
- D. 600-1000 mg

67. Why should mature cheese be avoided in patients taking monoamine oxidase inhibitors (MAOI)?

- A. The high level of calcium impairs MAOI absorption
- B. They possess intrinsic MAOI activity
- C. The cheese contains tyramine
- D. The cheese contains histamine

68. How much chlorbutol is required to make 500 mL of an aqueous solution of such a concentration that 25 mL diluted to 100 mL with water will give a 1:2000 solution?

- A. 2.5 g
- B. 1.25 g
- C. 1 g
- D. 0.1 g

69. Patients self-administer insulin injections by which route?

- A. Intradermal injection
- B. Intramuscular injection
- C. Intravenous infusion
- D. Subcutaneous injection

70. Which ONE of the following would **LEAST** likely explain a drug's low plasma concentration in the body?

- A. It may be slowly absorbed
- B. It is distributed extensively in the tissues
- C. It crosses the blood-brain barrier easily
- D. It may be metabolised quickly

71. What is a common side effect of minocycline?

- A. Dizziness
- B. Bradycardia
- C. Rhinitis
- D. Flatulence

72. What properties do drugs that demonstrate non-linear pharmacokinetics show?

- A. A constant ratio of drug metabolites is formed as the administered dose increases
- B. The elimination half-life increases as the administered dose is increased
- C. The area under the curve increases in direct proportion to an increase in the administered dose
- D. The steady state drug concentration increases in direct proportion to the dosing rate

73. Which ONE of the following should be avoided in a patient taking moclobemide?

- A. Ranitidine
- B. Nitrazepam
- C. Sumatriptan
- D. Furosemide

74. Data obtained from 2 different batches of tablets of a new hypoglycaemic agent undergoing clinical trial revealed the following:

| | Drug amount | Bioavailability |
|---------|-------------|-----------------|
| Batch 1 | 100 mg | 55% |
| Batch 2 | 200 mg | 165% |

What is the absolute bioavailability of Batch 2?

- A. 33.33%
- B. 61.6%
- C. 90.75%
- D. 300%

75. Which ONE of the following drugs may be used intravenously to treat closed angle glaucoma?

- A. Atropine
- B. Pilocarpine
- C. Mannitol
- D. Latanoprost

76. Aspirin is generally **NOT** recommended for children under the age of 16 years because of the risk of which ONE of the following?

- A. Cross sensitivity with peanut allergy
- B. Risk of asthma
- C. Raynaud's syndrome
- D. Reye's syndrome

77. Which ONE of the following antimicrobials is considered safe in pregnant women?

- A. Tobramycin
- B. Doxycycline
- C. Ciprofloxacin
- D. Cefalexin

78. What is the normal range of a sublingual spray dose of glyceryl trinitrate?

- A. 30 - 60 microgram
- B. 400 – 1200 mcg
- C. 0.3 - 0.6 mg
- D. 1200 –2000 mcg

79. What is the usual starting dose for venlafaxine?

- A. 37.5 mg daily
- B. 150 mg daily
- C. 75 mg daily
- D. 300 mg daily

80. What is the **MOST** common adverse effect of raloxifene?

- A. Irregular uterine bleeding
- B. Allergic reactions
- C. Hot flushes
- D. Deep vein thrombosis

81. What is the sodium ion concentration of a solution of sodium chloride 0.9%?

Molecular weight of sodium is 23 and chlorine is 35.

- A. 100 millimol/L
- B. 130 millimol/L
- C. 150 millimol/L
- D. 270 millimol/L

82. Which ONE of the following topical clotrimazole regimens is **MOST** appropriate to treat vaginal candidiasis?

- A. 500 mg as a single dose at bedtime
- B. 100 mg daily at bedtime for 10 days
- C. 500 mg daily at bedtime for 3 days
- D. 100 mg daily at bedtime for 14 days

83. Sodium polystyrene sulfonate exerts its therapeutic effect by acting as an exchange resin.

Which ONE of the following ions is exchanged with sodium?

- A. Potassium
- B. Phosphorus
- C. Calcium
- D. Chloride

84. What is the **BEST** measurement to determine the bioequivalence of 2 tablets containing an identical amount of the same drug?

- A. Disintegration time
- B. Dissolution time
- C. Serum concentration
- D. Rate of excretion

85. Lignocaine hydrochloride is available for intravenous injection as a 2% solution packed in 5 mL syringes.

What volume of solution is required for a patient weighing 60 kg that requires a dose of 1 mg per body weight by slow intravenous injection?

- A. 2.5 mL
- B. 3 mL
- C. 4 mL
- D. 6 mL

86. Why are methylcellulose and similar agents used for ophthalmic solutions?

- A. To increase ocular exposure time
- B. To reduce inflammation of the eye by their soothing effect
- C. To suspend soluble drugs
- D. To reduce drop size

87. Which ONE of the following drug combinations carries the highest risk of QT prolongation?

- A. Promethazine and roxithromycin
- B. Erythromycin and haloperidol
- C. Fexofenadine and doxycycline
- D. Cetirizine and cefalexin

88. Which ONE of the following parameters does **NOT** influence the steady state plasma concentration of a drug administered intravenously?

- A. Dose
- B. Drug clearance
- C. Volume of distribution
- D. Dosing interval

89. Which ONE of the following drugs is **MOST** appropriate for the treatment of vertigo?

- A. Ondansetron
- B. Metoclopramide
- C. Prochlorperazine
- D. Selegiline

90. Which ONE of the following is an appropriate strategy to treat drug dependency?

- A. Disulfiram for opioid dependence
- B. Acamprosate for alcoholism in abstinent patients
- C. Diazepam for depression in nicotine withdrawals
- D. Naloxone for opioid dependence

91. Which ONE of the following is the **LEAST** likely reason to add surfactants to tablets?

- A. Increase the surface tension between two phases of the drug
- B. Reduce the disintegration rate of the drug
- C. Improve the flow properties of the granules
- D. Increase the dissolution rate of the drug

92. Which ONE of the following is a potential common adverse effect with the use of fluoxetine?

- A. Hepatitis
- B. Nose bleeds
- C. Insomnia
- D. Taste disturbances

93. Dopamine 200 mg in 500 mL of normal saline at 5 microgram/kg/min is ordered for a 70 kg patient.

At what rate (mL/min) should the solution be infused to deliver the desired dose of 5 microgram/kg/min?

- A. 0.35 mL/min
- B. 0.40 mL/min
- C. 0.88 mL/min
- D. 2 mL/min

94. What type of laxative is docusate sodium?

- A. Stimulant
- B. Bulk-forming
- C. Softener
- D. Osmotic

95. Which ONE of the following drugs is **MOST** likely to cause hypothyroidism?

- A. Sertraline
- B. Carbimazole
- C. Amiodarone
- D. Phenytoin

96. After initial immunisation with tetanus toxoid, how often should booster injections be given?

- A. Every 2 years
- B. Every 3 years
- C. Every 5 years
- D. Every 10 years

97. The elimination half-life of a drug is approximately 2 hours.

What percentage of this drug would have been eliminated from the body 4 hours after an intravenous (IV) bolus dose?

- A. 12.5%
- B. 25%
- C. 75%
- D. 87.5%

98. Which statement is **TRUE** regarding naloxone?

- A. It is an analgesic that causes euphoria
- B. It is the drug of choice for the treatment of opioid overdose
- C. It is a partial agonist for the opiate receptor
- D. It is equipotent whether given orally or by injection

99. What purpose do stearyl alcohol and cetyl alcohol have when used as excipients?

- A. Preservatives
- B. Emulsifiers
- C. Binding agents
- D. Surfactants

100. Sublingual administration is **NOT** suitable when the drug has which **ONE** of the following properties?

- A. Poorly soluble in bodily fluids
- B. Highly diffusible across the lipid bilayer
- C. Highly metabolised by the liver
- D. Poorly absorbed by the gastrointestinal tract

Answer Sheet

| Sequence Number | Correct Answer |
|-----------------|----------------|
| 1 | D |
| 2 | B |
| 3 | C |
| 4 | D |
| 5 | C |
| 6 | D |
| 7 | C |
| 8 | C |
| 9 | B |
| 10 | A |
| 11 | C |
| 12 | D |
| 13 | C |
| 14 | D |
| 15 | C |
| 16 | C |
| 17 | A |
| 18 | C |
| 19 | A |
| 20 | B |
| 21 | D |
| 22 | A |
| 23 | C |
| 24 | C |
| 25 | A |
| 26 | C |
| 27 | D |
| 28 | A |
| 29 | D |
| 30 | C |
| 31 | B |
| 32 | B |
| 33 | A |
| 34 | B |

| Sequence Number | Correct Answer |
|-----------------|----------------|
| 35 | A |
| 36 | B |
| 37 | C |
| 38 | D |
| 39 | D |
| 40 | C |
| 41 | D |
| 42 | C |
| 43 | C |
| 44 | D |
| 45 | A |
| 46 | C |
| 47 | D |
| 48 | B |
| 49 | B |
| 50 | A |
| 51 | B |
| 52 | C |
| 53 | D |
| 54 | A |
| 55 | A |
| 56 | C |
| 57 | A |
| 58 | D |
| 59 | B |
| 60 | B |
| 61 | A |
| 62 | B |
| 63 | A |
| 64 | B |
| 65 | C |
| 66 | C |
| 67 | C |
| 68 | C |

| Sequence Number | Correct Answer |
|-----------------|----------------|
| 69 | D |
| 70 | B |
| 71 | A |
| 72 | B |
| 73 | C |
| 74 | C |
| 75 | C |
| 76 | D |
| 77 | D |
| 78 | B |
| 79 | C |
| 80 | C |
| 81 | C |
| 82 | A |
| 83 | A |
| 84 | C |
| 85 | B |
| 86 | A |
| 87 | B |
| 88 | C |
| 89 | C |
| 90 | B |
| 91 | D |
| 92 | C |
| 93 | C |
| 94 | C |
| 95 | C |
| 96 | D |
| 97 | C |
| 98 | B |
| 99 | B |
| 100 | A |



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