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council

## Australian Pharmacy Council Ltd Knowledge Assessment of Pharmaceutical Sciences (KAPS) Paper 1 Sample 1

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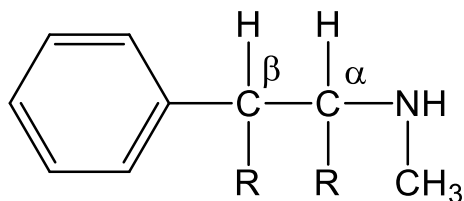
The KAPS Examination is 100-questions long and candidates have 2 hours to complete it.

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1



The sympathomimetic amine structure pictured above can be modified by substituting at the alpha and beta carbons. Which of the following effects will result if the R group on the alpha carbon is methyl rather than hydrogen?

- A Activity following oral ingestion
- B Increased pressor activity
- C Less toxicity
- D Less CNS stimulation
- E Activity

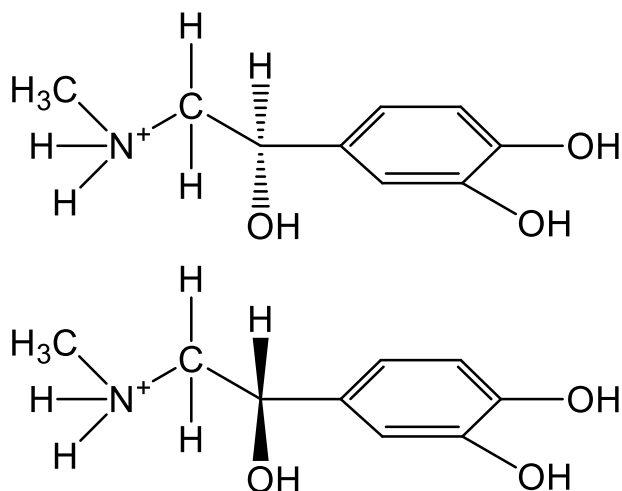
2 Another acceptable name for isopropyl alcohol is

- A methanol
- B 1,2-ethanediol
- C 2-propanol
- D n-propanol
- E propylcarbinol

3 Saponification is defined as the

- A reaction of a glyceryl ester with alkali to form soaps and glycerol
- B reaction of acids with bases to form salt(s) and water
- C reaction of salts or esters with water to form acids and bases or alcohols
- D reaction in which the hydroxyl of an organic acid is replaced by an alkoxy group (RO)
- E reaction in which hydrogen atoms are added across a double bond

- 4 The two compounds with the following formulae are best described as



- A isosteres  
B diastereoisomers  
C optical enantiomorphs  
D conformational isomers  
E Cis-trans isomers
- 5 Which of the following is **NOT** true for enantiomers?

- A They are stereoisomers of a chiral compound  
B They have the same melting point  
C They have the same boiling point  
D They have the same density  
E They have different physical properties

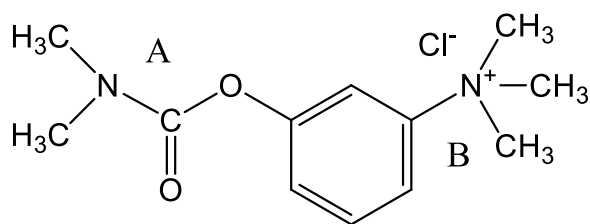
- 6 Petrolatum is **NOT** soluble in

- A chloroform  
B ethyl alcohol  
C ether  
D Benzene  
E petroleum ether

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- 7 Which one of the following properties **BEST** enables a drug to be detected by UV analysis?
- A Aromatic ring
  - B Carboxyl group
  - C Primary amine
  - D Hydroxyl group
  - E Aliphatic hydrocarbon chain
- 8 Which biochemical class does gelatin belong to?
- A Carbohydrate
  - B Protein
  - C Lipid
  - D Glycolipid
  - E Tannin
- 9 The structure of trans-cyclopropane consists of a rigid cyclopropane ring with two substituents in a trans-arrangement to each other. These two groups are on separate carbon atoms and
- A both are above the plane of the ring
  - B one is in the plane of the ring and one below
  - C both are in the plane of the ring
  - D one is above the plane of the ring and one below
  - E both are below the plane of the ring

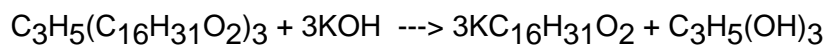
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- 10 The essential dietary fatty acid that gives rise to the "omega-3" family is
- A arachidonic acid
  - B eicosapentaenoic acid
  - C gamma - aminobutyric acid
  - D linolenic acid
  - E pentanoic acid
- 11 Which of the following is a cationic emulgent?
- A Sodium lauryl sulphate
  - B Cetrimide
  - C Sodium stearate
  - D Calcium oleate
  - E Triethanolamine stearate
- 12 Salicylic acid shaken with chloroform (SG 1.47) and dilute aqueous nitric acid will
- A be present mainly in the upper aqueous layer
  - B be present mainly in the lower layer
  - C precipitate in the upper aqueous layer
  - D precipitate in the lower layer
  - E be evenly dispersed in both layers
- 13 Biotransformation of phenobarbitone in the liver is catalysed
- A by the oxidative phosphorylation complex
  - B by the microsomal mixed function oxidases
  - C in the hexose monophosphate shunt
  - D in the gluconeogenic pathway
  - E by the hepatic amidases

14 The anticholinesterase activity of neostigmine is due to



- A the relative positions of molecular features A & B making it structurally similar to acetylcholine
- B the acetyl-like carbamoyl group A which facilitates the action of the esterase enzyme
- C the charged quaternary structure B which assists the release of the enzyme bound substrate
- D the non-polar nature of the acetyl-like carbamoyl group A
- E the bulky nature of the benzene ring adjacent to the quaternary structure B
- 15 Nicotinic acid (Vitamin B<sub>3</sub>) and gemfibrozil are used to treat
- A hyperlipidaemia
- B hyperglycaemia
- C anticoagulant hypertension
- D hypersecretion
- E hypovitaminosis
- 16 Which of the following medicinal agents does **NOT** contain a sulphur atom?
- A Meloxicam
- B Gliclazide
- C Indapamide
- D Frusemide
- E Ramipril

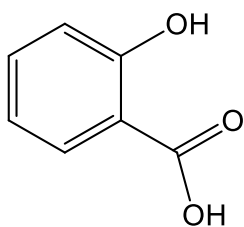
17 The chemical reaction shown below



is an example of

- A esterification
- B neutralization
- C hydrolysis
- D saponification
- E polymerization

18 The following structure is? - hydroxybenzoic acid



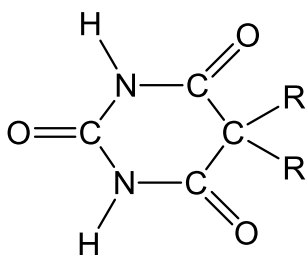
- A meta-
- B para-
- C levo-
- D ortho-
- E pseudo-

19 The functional group which contributes to the instability of atropine is

- A alcohol
- B ketone
- C ester
- D heterocycle
- E ether

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- 20 Volatile oils contain
- A terpenes
  - B steroids
  - C alkaloids
  - D aliphatic hydrocarbons
  - E glycosides

21



The formula given above, which is the basic formula for barbiturates, can be chemically classified as

- A acidic
  - B basic
  - C amphoteric
  - D neutral
  - E lipophilic
- 22 The solubility of sodium phenobarbitone is greatest in
- A purified water
  - B aqueous buffer of pH 4
  - C aqueous buffer of pH 10
  - D dilute hydrochloric acid
  - E chloroform water



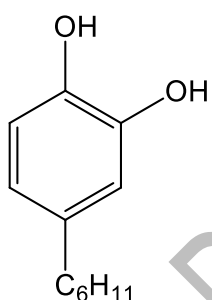
23 The interaction of methylcellulose and p-hydroxybenzoic acid is due to

- A polymerization
- B hydrolysis
- C oxidation
- D complexation
- E esterification

24 Sodium metabisulphite is used in injections of adrenaline as

- A a suspending agent
- B a fungicide
- C an antioxidant
- D a buffering agent
- E a bactericide

25



When hexylresorcinol is exposed to light and air it

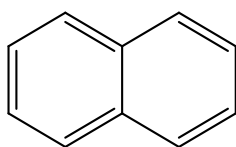
- A volatilizes very readily
- B loses water to form the anhydride
- C reduces rapidly to form a white insoluble cake
- D oxidises
- E liquefies

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26 A secondary alcohol on oxidation yields a(an)

- A ketone
- B primary alcohol
- C aldehyde
- D aldehyde and subsequently an acid
- E ether

27



The chemical structure shown above depicts

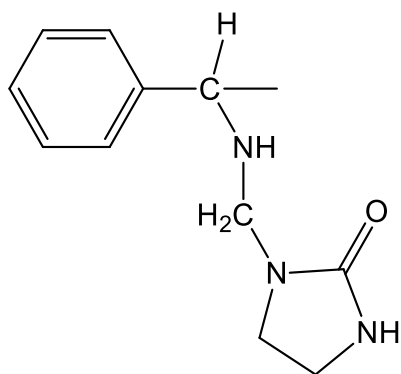
- A pyridine
- B pyrrolidine
- C quinoline
- D naphthalene
- E bi-phenyl

28 Which of these statements does **NOT** apply to phenol?

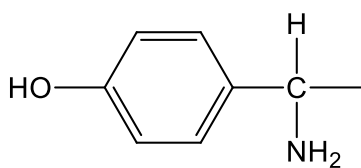
- A Not soluble in hydrochloric acid
- B Undergoes photo-oxidation
- C Acidic
- D Soluble in sodium hydroxide solution
- E Deliquescent crystalline solid

29 Which of the following chemical structures represents the side chain for amoxicillin?

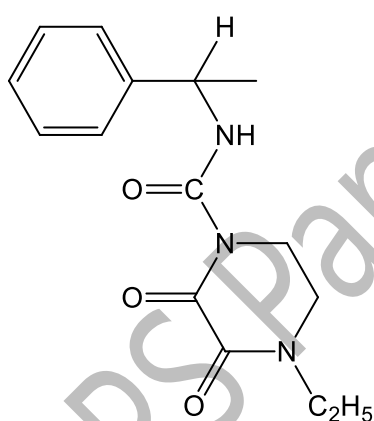
A



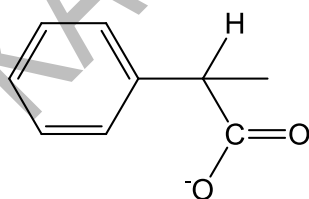
B



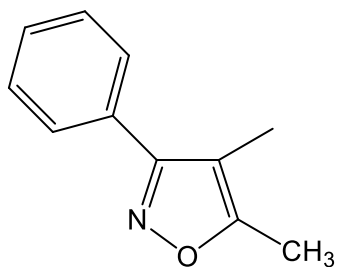
C



D



E



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- 30 Quinine is a (an)
- A nucleic acid
  - B alkaloid
  - C enzyme
  - D vitamin
  - E protein
- 31 Morphine
- A is a synthetic opioid
  - B has an active metabolite
  - C is a respiratory stimulant
  - D is more potent than fentanyl
  - E can be used to treat constipation
- 32 Which one of the following factors causes the majority of cases of hypertension?
- A Aortic aneurism
  - B Unknown mechanisms
  - C Phaeochromocytoma
  - D Primary aldosteronism
  - E Renin-angiotensin imbalances
- 33 Damage to the posterior pituitary
- A will cause senile dementia
  - B will result in a decrease of oxytocin and vasopressin release
  - C produces Cushing's syndrome
  - D results in retarded growth
  - E leads to hypothyroidism

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- 34 All of the following are a long term complications of diabetes **EXCEPT**
- A retinopathy
  - B microangiopathy
  - C macroangiopathy
  - D paralytic ileus
  - E neuropathy
- 35 A Type I allergic reaction is an indication
- A that antibodies are not present in the blood
  - B of immunity
  - C of hypersensitivity to a given protein
  - D of the presence of typhoid bacilli
  - E of infestation by trypanosomes
- 36 Cystic fibrosis
- A is an inherited disorder of the endocrine system
  - B most commonly affects the cardiovascular and nervous systems
  - C often leads to lung disease, predominantly caused by *Pseudomonas aeruginosa*
  - D is due to a viral infection
  - E is due to a bacterial infection
- 37 Angiotensin converting enzyme inhibitors
- A inhibit the conversion of angiotensin I to angiotensin II
  - B should never be used with potassium sparing diuretics
  - C may decrease lithium levels through increased renal clearance
  - D all have similar half-lives and duration of action
  - E Commonly cause a dry cough and angioedema

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- 38 Which group of symptoms is **MOST** often associated with a patient who has signs of left-sided heart failure?
- A Shortness of breath, paroxysmal nocturnal dyspnea
  - B Jugular venous distension, shortness of breath
  - C Hepatojugular reflux, abdominal distension
  - D Paroxysmal nocturnal dyspnea, hepatojugular reflux
  - E Abdominal distension, hepatomegaly
- 39 Peptic ulcers
- A are not related to the presence of *Helicobacter Pylori*
  - B are worsened by increased mucous secretion
  - C involve excessive histamine secretion from parietal cells
  - D involve excessive gastrin secretion from endochromaffin cells
  - E are associated with excessive acid secretion
- 40 Diabetic retinopathy
- A is characterised by reversible changes in the retinal architecture
  - B is characterised by microaneurysms and vitreous haemorrhage
  - C is caused by impaired drainage of the aqueous humour
  - D is characterised by corneal injury
  - E is caused by proteolytic enzymes degrading the retina
- 41 Oestradiol is secreted by the
- A ovarian follicle
  - B anterior pituitary
  - C adrenal cortex
  - D hypothalamus
  - E posterior pituitary

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- 42 The cells of the distal convoluted tubule
- A reabsorb approximately 50% of the water in the glomerular filtrate
  - B are not capable of secreting hydrogen ions
  - C reabsorb potassium ions
  - D are sensitive to aldosterone
  - E reabsorb approximately 75% of the glucose in the glomerular filtrate
- 43 Which organ in the body plays a major role in the development of the immune system?
- A Pancreas
  - B Thyroid
  - C Liver
  - D Thymus
  - E Adrenal
- 44 Which of the following would be deemed to be within the optimal range of haematocrit value for a healthy adult male?
- A 10%
  - B 20%
  - C 50%
  - D 80%
  - E 95%
- 45 The composition of sweat is altered in what disease state?
- A Hypertension
  - B Hypothyroidism
  - C Glomerulonephritis
  - D Diabetes insipidus
  - E Cystic fibrosis

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- 46 Blackheads result from a
- A block of sebaceous glands
  - B block of hair follicles
  - C block of sweat glands
  - D excessive intake of oily foods
  - E excessive secretions from sebaceous glands
- 47 Cartilage
- A can be transformed into bone during ossification
  - B binds muscle to bones
  - C is part of epithelial tissue
  - D covers muscles
  - E lies within muscles
- 48 Muscle fatigue is thought to be a consequence of
- A lactic acid accumulation
  - B paying off the oxygen debt
  - C poisons in the blood stream
  - D lack of sufficient ATP molecules
  - E accumulation of carbon dioxide
- 49 Metformin acts via
- A blocking absorption of glucose by the intestine
  - B tissue uptake of glucose
  - C increased insulin secretion
  - D increased metabolism of ketone precursors



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- 50 Normal erythrocytes
- A are non-nucleated, biconcave discs
  - B are nucleated biconcave discs
  - C are non nucleated convex discs
  - D are binucleated cells
- 51 The structure(s) which prevent(s) backflow of blood to the ventricles of the heart
- A is the interventricular septum
  - B are the valves in the veins
  - C are the atrio-ventricular valves
  - D is the pericardium
  - E are the aortic and pulmonary valves
- 52 If an infection of the throat has spread to the eustachian tube, to which of these structures would the infection be most likely to spread next?
- A Auditory nerve
  - B Inner ear
  - C Middle ear
  - D Mastoid air cells
  - E External auditory canal
- 53 Examples of monosaccharides are
- A glucose and glycine
  - B maltose and sucrose
  - C fructose and glucose
  - D lactose and galactose
  - E dextrin and erythrodextrin

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- 54 The main effect of vasopressin is
- A to increase blood pressure, increasing formation of nephric filtrate
  - B to cause active transport of urea and uric acid from renal blood into tubules
  - C to cause production of renin by kidney cells
  - D inhibition of aldosterone action
  - E to cause reabsorption of water, especially in the distal tubule and collecting ducts
- 55 Insulin glargine acts via
- A blocking absorption of glucose by the intestine
  - B tissue uptake of glucose
  - C increased insulin secretion
  - D increased metabolism of ketone precursors
- 56 In myocardial ischaemia,  $\beta$ -adrenoreceptor blockade
- A decreases the risk of ventricular fibrillation
  - B decreases the size of the infarct due to coronary occlusion
  - C by agents with high intrinsic sympathomimetic activity decreases the risk of reinfarction
  - D if withdrawn leads abruptly to an increased risk of infarction
  - E decreases the incidence of arrhythmias associated with intubation
- 57 Frusemide increases the flow of urine by increasing
- A filtration pressure
  - B renal plasma flow
  - C urinary pH
  - D sodium excretion
  - E sodium reabsorption

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APC KAPS Paper 1 Sample 1

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- 58 Which of the following drugs does **NOT** lower blood pressure?
- A Hydralazine
  - B Diazoxide
  - C Minoxidil
  - D Flecainide
  - E Lercanidipine
- 59 Corticosteroids are effective in the treatment of acute asthma because they
- A cause acute bronchodilation
  - B reduce mucosal oedema
  - C suppress precipitating infections
  - D prevent mediator release from mast cells
  - E reduce prostaglandin formation by inhibiting cyclo-oxygenase activity
- 60 All of the following are antineoplastic agents. Which one is **NOT** an alkylating agent?
- A Chlorambucil
  - B Cyclophosphamide
  - C Melphalan
  - D Thiotepa
  - E Cytarabine
- 61 Incorporation of adrenaline into local anaesthetic solutions for injection will effectively
- A decrease the local action of the anaesthetic
  - B reduce local blood flow
  - C increase the amount of local anaesthetic which will need to be administered
  - D block nerve fibres by depolarising the membrane
  - E decrease the systemic side effects of the anaesthetic

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- 62 Isoprenaline
- A blocks alpha adrenoceptors
  - B stimulates beta adrenoceptors directly
  - C releases noradrenaline from noradrenergic nerves
  - D is taken up by uptake 1
- 63 Organophosphate poisoning must be treated by the urgent administration of
- A adrenaline
  - B atropine
  - C promethazine
  - D physostigmine
  - E methyldopa
- 64 Single doses of paracetamol over which of the following amounts may result in severe liver damage(which may be fatal) and referral to an emergency department is essential?
- A 150 mg/kg
  - B 50 mg/kg
  - C 90 mg/kg
  - D 25 mg/kg
  - E 300 mg/kg
- 65 Which **ONE** of the following treatments can cause a patient to develop acute gout?
- A Acetazolamide
  - B Colchicine
  - C Triamterene
  - D Spironolactone
  - E Frusemide

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- 66 Which of the following is the treatment of choice for an infestation of scabies?
- A Permethrin
  - B Crotamiton
  - C Mebendazole
  - D Malathion
  - E Tinidazole
- 67 Bipolar disorder is treated with all of the following **EXCEPT**
- A lithium
  - B haloperidol
  - C carbamazepine
  - D sodium valproate
  - E paroxetine
- 68 Which one of the following drugs is used to prevent haemorrhagic cystitis in patients receiving various types of chemotherapy?
- A Methotrexate
  - B Mercaptopurine
  - C Dacarbazine
  - D Ifosfamide
  - E Mesna
- 69 Anthracyclines can be used for the treatment of
- A anaemia
  - B polycythemia
  - C vasculitis
  - D leukaemia
  - E hereditary coagulation disorders

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- 70 Which of the following symptoms would be **LEAST** likely to be exhibited by a patient suffering from diabetes mellitus?
- A Urinary retention
  - B Excessive thirst
  - C Glycosuria
  - D Weight loss
  - E Weakness
- 71 Which of the following is characterised by selective destruction of myelin sheath surrounding nerve axons?
- A Huntington's chorea
  - B Multiple sclerosis
  - C Parkinson's disease
  - D Tardive dyskinesia
  - E Myasthenia gravis
- 72 Patients with diabetes have higher risks for
- A renal stenosis
  - B macular depigmentation
  - C visual cortex hyperplasia
  - D erectile dysfunction
  - E ocular hyperopathy
- 73 All of the following statements regarding whooping cough are true **EXCEPT**
- A the vaccine is at least 90% effective
  - B the incubation period is usually 1-2 weeks
  - C it is characterised by paroxysmal coughing
  - D it is caused by gram negative aerobic bacilli
  - E it is effectively treated with cephalosporin antibiotics

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- 74 Pityriasis versicolor is **BEST** described as
- A an acute inflammatory yeast infection characterised by a diffuse rash
  - B an asymptomatic fungal infection affecting the beard area in males
  - C a yeast infection characterised by multiple, usually asymptomatic, patches varying in colour from white to brown
  - D a viral infection characterised by patches of red and brown colour
- 75 A 'nosocomial' infection is one that
- A is acquired in a medical facility
  - B is transmitted by respiratory droplets
  - C is notifiable
  - D is transmitted to the host via contaminated water
  - E affects mainly school aged children
- 76 Betaxolol should be administered with caution in patients with
- A glaucoma
  - B Parkinson's disease
  - C asthma
  - D epilepsy
  - E cardiac failure
- 77 Atropine causes
- A constriction of the pupil
  - B increased gastric motility
  - C micturition
  - D impairment of ejaculation
  - E increased heart rate



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- 78 Which of the following compounds is an irreversible cholinesterase inhibitor?
- A Physostigmine
  - B Edrophonium
  - C Pilocarpine
  - D Malathion
  - E Atropine
- 79 Which of the following is **NOT** among those actions of propranolol which are due to  $\beta_1$ -adrenoceptor blockade?
- A Decrease in heart rate
  - B Prolongation of A-V conduction time
  - C Reduction in cardiac contractility
  - D Reduced peripheral blood flow
  - E Antagonism of the cardiac actions of catecholamines
- 80 Which of the following drugs is the most useful for the chronic management of metastatic bone pain?
- A Indomethacin
  - B Paracetamol
  - C Fentanyl
  - D Amitriptyline
  - E Carbamazepine
- 81 Benzodiazepines may be indicated for all of the following **EXCEPT**
- A restless leg syndrome
  - B muscle spasm
  - C anxiety
  - D depression
  - E acute alcohol withdrawal

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- 82 All of the following are features of simple, competitive antagonism **EXCEPT**
- A in the presence of different concentrations of antagonist, log concentration-effect curves to an agonist have the same slope
  - B the maximal response to an agonist is not reduced
  - C increasing concentrations of antagonist shift the agonist log concentration-effect curve to the right
  - D increasing concentrations of antagonist shift the agonist log-concentration-effect curve to the left
- 83 Alpha-1 receptors are the main adrenoceptor located in
- A arterioles
  - B bronchioles
  - C atria
  - D cardiac ventricles
- 84 Colchicine can relieve the symptoms of an acute attack of gout because it
- A blocks PGE<sub>2</sub> formation
  - B blocks uric acid formation
  - C inhibits neutrophil infiltration
  - D increases uric acid excretion
- 85 Which of the following drugs when placed in the eye would cause the pupil to contract and the eye to be focused for near vision?
- A Atropine
  - B Timolol
  - C Phenylephrine
  - D Pilocarpine
  - E Cyclopentolate

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- 86 A 30-year-old female with partial seizures is treated with vigabatrin. What is the principal action of vigabatrin?
- A Sodium channel blockade
  - B Increase in frequency of chloride channel opening
  - C Inhibit GABA transaminase enzymes
  - D Increased potassium channel permeability
  - E NMDA receptor blockade
- 87 Glucocorticoids are powerful anti-inflammatory agents. Which of the following is **NOT** an anti-inflammatory mechanism of action of glucocorticoids?
- A Decreased secretion of proteolytic enzymes
  - B Reduction in the release of cytokines, such as IL-1 and IL-2
  - C Decreased number of circulating neutrophils
  - D Impairment of prostaglandin and leukotriene synthesis
- 88 Which of the following best describes the effect of doxycycline on therapeutically administered oestrogens? It decreases
- A oestrogen metabolism
  - B the enterohepatic circulation of oestrogen
  - C the plasma protein binding of oestrogen
  - D the renal excretion of oestrogen
  - E the sensitivity of oestrogen at its site of action
- 89 Rickets develops from a deficiency of which of the following?
- A Vitamin A
  - B Vitamin B<sub>6</sub>
  - C Vitamin K
  - D Vitamin D
  - E Vitamin C

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- 90 Filgrastim, a colony stimulating factor, stimulates which one of the following haematological lineages?
- A Macrophages
  - B Granulocytes
  - C Thrombocytes
  - D Erythrocytes
  - E Lymphocytes
- 91 Which of the following is true about glutamate neurotransmission in the brain?
- A Glutamate is an inhibitory neurotransmitter in the cerebral cortex
  - B The anaesthetic agent ketamine is an agonist at NMDA-type receptors
  - C Glutamate is an excitatory neurotransmitter in the cerebral cortex
  - D Decreases in glutamate transmission may be associated with epilepsy
- 92 The following statements about the use of  $\beta$ -blockers for treatment of congestive heart failure are true **EXCEPT**
- A  $\beta$ -blockers increase life expectancy
  - B the use of  $\beta$ -blockers can result in cardiac depression
  - C  $\beta$ -blockers prevent ventricular remodelling
  - D  $\beta$ -blockers can increase ejection fraction
  - E  $\beta$ -blockers increase AV nodal conduction
- 93 Which of the following agents is a selective dopamine receptor ( $D_2$ ) agonist?
- A Fluphenazine
  - B Bromocriptine
  - C Promethazine
  - D Haloperidol
  - E Chlorpromazine

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94 Which of the following opioid analgesics has the longest duration of action in a standard release formulation?

- A Morphine
- B Pethidine
- C Oxycodone
- D Methadone
- E Tapentadol

95 Nitrous oxide

- A has a high anaesthetic potency
- B is not analgesic
- C has a fast induction
- D has a high blood/gas partition coefficient

96 The mechanism of action of salbutamol is that of a relatively selective

- A beta<sub>2</sub>-adrenoceptor agonist with alpha-adrenoceptor agonist activity
- B beta<sub>1</sub>-adrenoceptor agonist without alpha-adrenoceptor agonist activity
- C beta<sub>2</sub>-adrenoceptor agonist without alpha-adrenoceptor agonist activity
- D beta<sub>1</sub>-adrenoceptor agonist with alpha-adrenoceptor agonist activity
- E beta<sub>2</sub>-adrenoceptor agonist with alpha-adrenoceptor antagonist activity

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**PATIENT PROFILE**

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Patient Name: James Gurley  
Address: Room Number 420-2  
Age: 26 Height: 185 cm  
Sex: Male Weight: 65 kg  
Allergies: Pollens, dust

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**Diagnosis**

Presenting Complaint: Primary  
1: Duodenal ulcer  
Secondary  
1: Epilepsy (stabilised)

Medical History:

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**Laboratory / Diagnostic Tests**

Date	Test	Reference Range
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**Medication Record**

Date	Medication	Quantity	Sig
2/6	Cimetidine 400 mg - oral		1 four times a day
2/4	Aluminium hydroxide - oral		15 mL every two hours
2/4	Phenytoin 100mg - oral		3 times a day
2/4	Salbutamol - inhaler		1-2 puffs every 4 hours prn

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**Pharmacist's Notes**

Mild asthma controlled using prn salbutamol

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- 97 The nursing staff report that Mr Gurley is experiencing dizziness and has fallen down several times. It is advisable to
- A continue the drug regimen as the side effects are transient
  - B increase the dose of phenytoin
  - C decrease the dose of phenytoin
  - D decrease the dose of cimetidine
  - E take the cimetidine with food to increase its absorption and decrease stomach irritation
- 98 Mr Gurley's poor muscle coordination may be defined in medical terminology as
- A ataxia
  - B atresia
  - C dementia
  - D hemiplegia
  - E dysarthria
- 99 Mr Gurley's physician calls the pharmacy for information concerning the interaction between cimetidine and some benzodiazepines. Which of the following agents is **LEAST** likely to have its concentration increased by cimetidine? **MOST** appropriate?
- A Midazolam
  - B Diazepam
  - C Flunitrazepam
  - D Alprazolam
  - E Oxazepam

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100 Mr Gurley brings an antibiotic prescription into the pharmacy five days after being discharged. He asks for the meaning of "nosocomial infection". This can be **BEST** described as

- A communicable
- B hospital-related
- C drug-related
- D unknown origin
- E non-communicable

\*\*\* END OF PATIENT PROFILE \*\*\*

\*\*\* END OF EXAMINATION \*\*\*



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**Australian Pharmacy Council Ltd  
Knowledge Assessment of Pharmaceutical  
Sciences (KAPS) Paper 1 Sample 1: Answers**

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

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39	E
40	B
41	A
42	D
43	D
44	C
45	E
46	A
47	A
48	A
49	B
50	A
51	E
52	C
53	C
54	E
55	B
56	C
57	D
58	D
59	B
60	E
61	B
62	B
63	B
64	A
65	E
66	A
67	E
68	E
69	D
70	A
71	B
72	D
73	E
74	C
75	A
76	C
77	E
78	D
79	D
80	A
81	D
82	D
83	A

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84	C
85	D
86	C
87	C
88	B
89	D
90	B
91	C
92	E
93	B
94	D
95	C
96	C
97	C
98	A
99	E
100	B

APC KAPS Paper 1 Sample 1