

**Dr. B.C. Roy College of Pharmacy and Allied Health Sciences**

**GPAT Mock Test 1**

*The question paper containing 50 questions. Each question carry 4 marks*

*Total Time: 1 hour*

QUESTION. 1 A Bougie is inserted into the

- A. Vagina B. Rectum C. Urethra D. All of these

QUESTION. 2 Nitroglycerine cannot be given orally, because

- A. It is destroyed by gastric acid B. It undergoes extensive first pass metabolism  
C. It is extremely bitter in taste D. Both a and b

QUESTION. 3 Drug absorption after s.c administration can be enhanced by co administration of

- A. Streptokinase B. Urokinase C. Hyaluronidase D. All of these

QUESTION. 4 Use of electric current to facilitate penetration of drug into skin is known as:

- A. Galvanizing B. Iontophoresis C. Ionotropy D. Penetrophoresis

QUESTION. 5 G protein coupled receptors are also known as

- A. Ionotropic receptors B. Kinase linked receptor C. Nuclear receptor D. Metabotropic receptor

QUESTION. 6 Coulter counter is used to determine

- A. Number of particles per unit weight B. Surface area of particle  
C. Shape of particle D. Volume of particle

QUESTION. 7 Limit test may be conducted for the following in a pharmaceutical:

- A. Heavy metals B. Insoluble matter C. Ash value D. All of these

QUESTION. 8 Pentose and hexose can be distinguished by

- A. Barfoed's test B. Seliwnoff's test C. Bial's test D. None of these

QUESTION. 9 In limit test of arsenic, arsine gas reacts with mercuric chloride paper to produce a

- A. Yellow stain B. Green stain C. Red stain D. None of these

QUESTION. 10 The term trans refers to conformational isomers where two principal groups are separated by a torsion angle of

- A. 60 degrees B. 90 degrees C. 120 degrees D. 180 degrees

QUESTION. 11 Aldobionic acid is a key constituent of

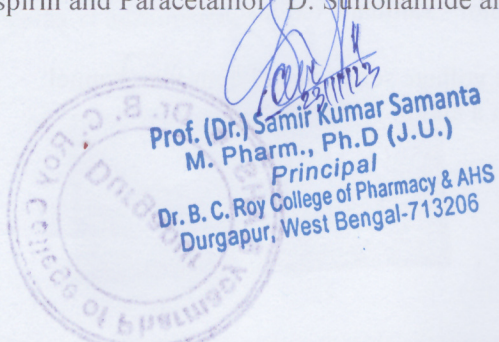
- A. Plantago ovata B. Acacia arabica C. Citrous limonis D. Sterculia urens

QUESTION. 12 Body surface area of an individual may be calculated by

- A. Du Bois formula B. Young's formula C. Dilling's formula D. Broad's formula

QUESTION. 13 All of the following drug combinations are example of potentiation reactions, except:

- A. Levodopa and Carbidopa B. Tyramine and MAO inhibitors  
C. Aspirin and Paracetamol D. Sulfonamide and Trimethoprim





QUESTION. 14 Which of the following drug can result in hemolytic anemia in a Glucose-6-phosphate deficient individual:

A. Primaquine B. Sulfonamides C. Chloramphenicol D. All of these

QUESTION. 15 Ability of drug to elicit a response once it has combined with a receptor is known as:

A. Affinity B. Intrinsic activity C. Potency D. Efficacy

QUESTION. 16 The conjugate acid of diarylamine is

A. diaryl ammonium B. diaryl iminium C. diaryl amidinium D. none of these

QUESTION. 17 Non specific inhibition of enzymes may be caused by:

A. Heavy metal salt B. Strong acids C. Formaldehyde D. All of these

QUESTION. 18 In terms of energy, the most stable conformer for butane is found to be

A. staggered B. gauche C. anti D. both b and c

QUESTION. 19 Gum Karaya belongs to family

A. Sterculiaceae B. Gelidaceae C. Apidae D. Leguminosae

QUESTION. 20 Spherical particles have shape factor coefficient value of

A. 4 B. 6 C. 8 D. 10

QUESTION. 21 Which of the following Drug-enzyme pair is not an example of Non-Competitive inhibition:

A. Sildenafil - Phosphodiesterase 5 B. Diclofenac Cyclooxygenase  
C. Digoxin - Na<sup>+</sup>-K<sup>+</sup>-ATPase D. Finasteride- 5-Reductase

QUESTION. 23 Which of the following chelators is clinically approved for the treatment of malaria:

A. Penicillamine B. EDTA C. BAL D. Desferrioxamine

QUESTION. 24 Plantago lanceolata, a common adulterant of ispaggol has swelling factor

A. 20 B. 15 C. 10 D. 5

QUESTION. 25 Flow property of powder can be measured by

A. Angle of repose B. Compressibility index C. Hausner ratio D. All of these

QUESTION. 26 In case of stimulation of enzymes by drugs:

A. rate constant  $K_m$  decreases B. rate constant  $K_m$  remains unchanged  
C. affinity of enzyme for substrate decreases D. none of these

QUESTION. 27 The only gold antiarthritic compound in clinical use is

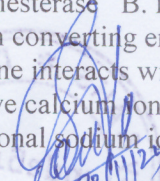
A. Auranofin B. Magnevist C. Dotarem D. Omniscan

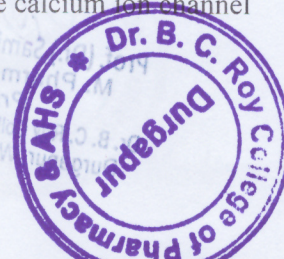
QUESTION. 28 Which of the following pairs is not an example of competitive inhibition:

A. Physostigmine - cholinesterase B. Disulfiram - Aldehyde dehydrogenase  
C. Captopril - angiotensin converting enzyme D. Allopurinol - xanthine oxidase

QUESTION. 29 Nifedipine interacts with

A. L-type voltage sensitive calcium ion channel B. T-type voltage sensitive calcium ion channel  
C. Voltage sensitive neuronal sodium ion channel D. Both a and b

  
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QUESTION. 30 Honey and artificial inverted sugar can be distinguished by  
A. Fiehe's test B. Iodine test C. Both of these D. None of these

QUESTION. 31 Which of the following drugs interact with serotonin transporter:  
A. Desipramine B. Amphetamine C. Fluoxetine D. Tiagabine

QUESTION. 32 Bismuth compound used for treating gastrointestinal disorder is:  
A. Nitrate salt B. salicylate salt C. colloidal bismuth sub citrate D. All of the above

QUESTION. 33 Desipramine interacts with:  
A. Serotonin transporter B. Nor epinephrine transporter  
C. GABA transporter D. Dopamine transporter

QUESTION. 34 Anderson pipette apparatus is used to determine  
A. Particle size B. Particle volume C. Particle shape D. All of these

QUESTION. 35 Which of the following drugs is a triple reuptake inhibitor:  
A. Cocaine B. Desipramine C. Amphetamine D. Fluoxetine

QUESTION. 36 Log probability plot is obtained by plotting  
A. Cumulative percentage frequency under size in probability scale vs particle size  
B. Cumulative percentage frequency under size in probability scale vs log particle size  
C. Percentage frequency vs log particle size  
D. Percentage frequency vs particle size

QUESTION. 37 Particle surface area is measured by  
A. Adsorption method B. Air Permeability method C. Both of these D. None of these

QUESTION. 38 Cheese reaction may be observed if following drug combinations are administered together  
A. Tyramine and Selegiline B. Acetylcholine and Physostigmine  
C. Ephedrine and Theophylline D. Adrenaline and Desimipramine

QUESTION. 39 Which of the following statements about competitive irreversible antagonism is not true:  
A. DRC of agonist shifts to left B. Maximal response is suppressed  
C. ED50 value shifts to right D. None of these

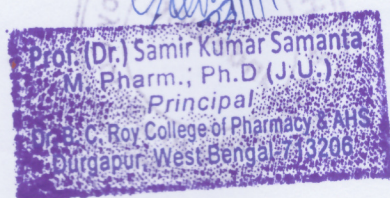
QUESTION. 40 Which of the following produce pink colour with Ruthenium red solution.  
A. Gum Karaya B. Isapgol C. Agar D. All

QUESTION. 41 Bisphosphonates used for the treatment of pathologies related to bone loss:  
A. Alendronate B. Pamidronate C. Allochrysin D. Both a and b

QUESTION. 42 Log Dose Response Curve can be characterized by:  
A. Slope B. Maxima C. Position on the dose axis D. All of these

QUESTION. 43 Rapidly developed tolerance is known as:  
A. Tachyphylaxis B. Anaphylaxis C. Pseudotolerance D. Cross tolerance

QUESTION. 44 Slow acetylators such as Egyptians and Mediterraneans may suffer from peripheral neuropathy if administered:





A. Isoniazid B. Hydralazine C. Chloroquine D. All of these

QUESTION. 45 On addition of hydrogen peroxide and benzidine in alcohol to aqueous solution of acacia gum blue colour produced is due to the presence of:

A. Arabin B. enzyme oxidase C. Aldobionic acid D. Agarose

QUESTION. 46 The enzyme responsible for protecting erythrocytes by reducing methemoglobin to hemoglobin is:

A. NAD- diaphorase B. Superoxide dismutase C. Allantoin hydroxylase D. All of these

QUESTION. 47 For prevention of ophthalmia neonatorum, which of the following drugs can be instilled into the eye of neonates

A. One percent silver chloride solution B. One percent ferrous sulphate solution  
C. One percent silver nitrate solution D. All of these

QUESTION. 48 Which of the following drugs is a competitive inhibitor of MAO:

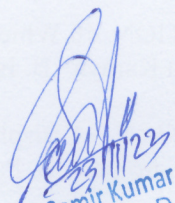
A. Ephedrine B. Amphetamine C. Epinephrine D. Phenylephrine

QUESTION. 49 Bingham body exhibits

A. Plastic flow B. Pseudoplastic flow C. Dilatant flow D. None

QUESTION. 50 Ostwald viscometer is generally used to determine viscosity of

A. Newtonian fluid B. Non Newtonian fluid C. Both D. None

  
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**GPAT Mock Test 15**

*The question paper containing 50 questions. Each question carry 4 marks*

**Total Time: 1 hour**

QUESTION. 1 Which of the following drugs is not a selective  $\alpha_2$  agonist:

- A. Clonidine B. C. Guanafacine D. Phenylephrine

QUESTION. 2 Which of the following statements is not true for Darbapoetin:

- A. Darbapoetin is used in treatment of anemia. B. Darbapoetin is a long acting version of Erythropoetin by the addition of two carbohydrate chains C. Darbapoetin has decreased clearance and has a half life about threetimes that of Erythropoetin. D. Due to delayed onset of action, it is preferred for acute treatment of anemia.

QUESTION. 3 Digitalis leaves are dried at a temperature:

- A. Above  $60^\circ\text{C}$  B. Below  $60^\circ\text{C}$  C. Above  $100^\circ\text{C}$  D. Below  $100^\circ\text{C}$

QUESTION. 4 Pernicious anemia is produced due to deficiency of:

- A. Folic acid B. Vitamin B12 C. Erythropoetin D. All of these

QUESTION. 5 Arene while undergoing Birch reduction produces 1,4-cyclohexadiene; identify the right combination of reagents which causes this conversion:

- A. Mg,  $\text{NH}_3$ ,  $\text{C}_2\text{H}_5\text{OH}$  B. Na,  $\text{NH}_4\text{OH}$ ,  $\text{CH}_3\text{CN}$  C. Na,  $\text{NH}_3$ ,  $\text{C}_2\text{H}_5\text{OH}$  D. NaOH,  $\text{C}_2\text{H}_5\text{OH}$

QUESTION. 6 Which of the following drugs is a local haemostatic:

- A. Thrombin B. Gelatin foam C. Russell's viper venom D. All of these

QUESTION. 7 The enzyme responsible for protecting erythrocytes by reducing methemoglobin to hemoglobin is:

- A. NAD-diaphorase B. Superoxide dismutase C. Allantoin hydroxylase D. All of these

QUESTION. 8 Foxglove leaf is:

- A. Cassia angustifolia B. Polygalasenegia C. Digitalis purpurea D. Panax ginseng

QUESTION. 9 Most important site of iron absorption is:

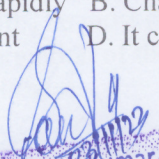
- A. Stomach B. Duodenum C. Jejunum D. Duodenum and proximal jejunum

QUESTION. 10 Methyl magnesium bromide reacts with oxirane yields the product A. Identify A from the followings:

- A. ethanol B. propanol C. propanal D. methanol

QUESTION. 11 Among the parenteral iron preparations, iron dextran complex is preferred over iron sorbitol citric acid complex, because:

- A. It acts more rapidly B. Chances of ADR are less  
C. It is less irritant D. It can be given both i.v. and i.m.

  
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QUESTION. 12 Type of stomata found in digitalis leaves is:  
A. Anomocytic B. Anisocytic C. Diacytic D. Paracytic

QUESTION. 13 The dose of Heparin is regulated by which of the following laboratory tests:  
A. Bleeding time B. Partial thromboplastin time C. Prothrombin time D. Clotting time

QUESTION. 14 Complete the following reaction by identifying A & B  
 $\text{ArNH}_2 + \text{A} = \text{ArN}_2^{++} + \text{B} = \text{ArOH}$   
A.  $\text{HONO} + \text{CuCl}_2$  B.  $\text{HNO}_3 + \text{Cu}_2\text{O}$  C.  $\text{HONO} + \text{Cu}_2\text{O}$  D.  $\text{H}_3\text{PO}_4 + \text{Cu}_2\text{O}$

QUESTION. 15 Neonates are susceptible to Vitamin K toxicity, and Menadione or its salts can precipitate kernicterus in new born, by:  
A. Inducing hemolysis and increasing bilirubin load  
B. By competitively inhibiting glucuronidation of bilirubin  
C. Decreasing Erythropoietin production in the liver  
D. Both (a) and (b)

QUESTION. 16 Digitalis leaves give positive result for:  
A. Keller kiliani test B. Legal test C. Baljet test D. All of these

QUESTION. 17 Which of the following drugs is a Direct thrombin inhibitor:  
A. Lepirudin B. Dabigatran C. Hirudin D. All of these

QUESTION. 18 Thevetin B (cereberoside) on hydrolysis yields:  
A. Cannogenin + L-thevetose + 2 mole D-glucose B. Digitoxigenin + L-thevetose + 2 mole D-glucose  
C. Cannogenin + L-thevetose D. Digitoxigenin + L-thevetose

QUESTION. 19 Which of the following drugs interact with serotonin transporter:  
A. Desipramine B. Amphetamine C. Fluoxetine D. Tiagabine

QUESTION. 20 Low molecular weight heparins differ from standard heparin in all of the following respects, except:  
A. It has equal or greater efficacy B. It causes lower incidence of bleeding  
C. It is to be given more frequently D. Increased bioavailability from s.c. injection site

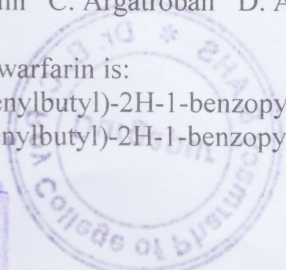
QUESTION. 37 Particle surface area is measured by  
A. Adsorption method B. Air Permeability method C. Both of these D. None of these

QUESTION. 22 The route by which heparin is never administered is:  
A. i.v. B. s.c. C. i.m. D. None of these

QUESTION. 23 Which of the following gives emerald green colour on addition of concentrated sulphuric acid:  
A. Digitalis B. Senna C. Strophanthus D. None of these

QUESTION. 24 Which of the following drugs is an inhibitor of Factor Xa:  
A. Fondaparinux B. Lepirudin C. Argatroban D. All of these

QUESTION. 25 Chemically warfarin is:  
A. 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one  
B. 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyrrole-2-one





- C. 4-hydroxy-3-(3-oxo-1-phenylbutyl)-2H-1-benzothiophene-2-one  
D. 4-amino-3-(3-oxo-1-phenylbutyl)-2H-1-benzopyran-2-one

QUESTION. 26 Specific antidote of Heparin is:

- A. Vitamin K B. EDTA C. Blood transfusion D. Protamine sulfate

QUESTION. 27 Dioscorea is used in the treatment of:

- A. Congestive heart failure B. Rheumatoid arthritis C. Malaria D. Hysteria

QUESTION. 28 Various steps of urea cycle take place in the:

- A. Matrix of liver mitochondria B. Liver cytosol C. Both of these D. None of these

QUESTION. 29 Which of the following chelating agents forms a toxic compound with iron and hence should not be used to treat iron toxicity:

- A. Desferrioxamine B. BAL C. Penicillamine D. DTPA

QUESTION. 30 The starting material used in the synthesis of dicumarol is:

- A. 4-hydroxy coumarin B. methyl acetylsalicylate C. ethyl acetyl salicylate D. phthalic anhydride

QUESTION. 31 Sweet then acid taste with characteristic odour of methylsalicylate is characteristic of:

- A. Digitalis B. Senega C. Senna D. Strophanthus

QUESTION. 32 The anticoagulant that is effective both orally and parenterally is:

- A. Heparin B. Dicoumarol C. Phenindione D. Warfarin

QUESTION. 33 The parent ring system present in anisindione is:

- A. indole B. inden C. isoindole D. indolidine

QUESTION. 34 Stas Otto method is used to isolate:

- A. Volatile oils B. Tannins C. Alkaloids D. Glycosides

QUESTION. 35 Megaloblastic anemia due to folic acid deficiency can occur following the administration of the following drug:

- A. Phenytoin B. Trimethoprim C. Isoniazid D. All of these

QUESTION. 36 All of the following are cardiotoxic, except:

- A. Digitalis B. Squill C. Strophanthus D. Dioscorea

QUESTION. 37 Maternal deficiency of folic acid in pregnant females may cause in fetus:

- A. Hare-lip B. Early closure of ductus arteriosus C. Spina bifida D. All of these

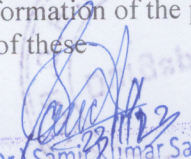
QUESTION. 38 Ginseng belongs to the family:

- A. Araliaceae B. Apocynaceae C. Liliaceae D. Rosaceae

QUESTION. 39 The enzyme responsible for protecting erythrocytes by reducing methemoglobin to hemoglobin is:

- A. NAD-diaphorase B. Superoxide dismutase C. Allantoin hydroxylase D. All of these

QUESTION. 40 The most common cause of medication error are lack of knowledge about the drug and:  
A. Lack of information of the patient B. Lack of timely test result C. Lack of time spent reviewing the case D. All of these

  
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QUESTION. 41 Which of the following statements about competitive irreversible antagonism is not true:

- A. DRC of agonist shifts to left B. Maximal response is suppressed  
C. ED50 value shifts to right D. None of these

QUESTION. 42 VitaminK1 is also known as:

- A. Phytonadione B. Menaquinone C. Menadione D. Antihemophilicfactor

QUESTION. 43 Side effect or complication from a medication is a(n):

- A. Drug overdose B. Late effect C. Transition point D. Adverse drug reaction

QUESTION. 44 The dose of Warfarin is regulated by which of the following laboratory tests:

- A. Bleeding time B. Partial thromboplastin time C. Prothrombin time D. Clottingtime

QUESTION. 45 Panaxosides on decomposition gives:

- A. Oleanolic acid, panaxadiol and panaxatriol B. Oleic acid, panaxadiol and panaxatriol  
C. Oleanolic acid and panaxadiol D. Oleic acid and panaxatriol

QUESTION. 46 Which of the following amino acids is nutritionally non-essential?

- A. Histidine B. Alanine C. Leucine D. Phenylalanine

QUESTION. 47 The response of Vitamin K is slow and it requires about 24 hours to initiate hemostasis.

This is because:

- A. It is highly bound to plasma proteins. B. It takes time to synthesize coagulation factors in liver, such as factors VII, IX and X. C. It is available only as delayed release formulations. D. All of these

QUESTION. 48 Shape of strophanthus seed is:

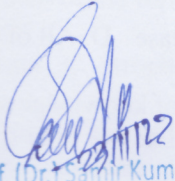
- A. Ovate B. Lanceolate C. Ovate lanceolate D. Round

QUESTION. 49 Gelatin sponge may be classified as:

- A. Absorbable hemostatic B. Systemic hemostatic C. Anticoagulant D. Both (a) and (b)

QUESTION. 50 The appropriate starting material for the synthesis of Diloxanide is

- A. N-methyl-4-aminophenol B. N-ethyl-4-aminophenol C. Furoylchloride D. p-chlorophenol

  
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GPAT Mock Test 6

The question paper containing 50 questions, Each question carry 4 marks

Total Time: 1 hour

QUESTION. 1 Adrenergic receptors belong to the following class of receptors:

A. Ligand gated ion channels B. GPCR C. Kinase linked receptors D. Nuclear receptors

QUESTION. 2 Beta -2 selective adrenergic agonist with quick onset and long duration of action is:

A. Formoterol B. Terbutaline C. Salbutamol D. Albuterol

QUESTION. 3 3-[[4,5-dihydro-1H-imidazol-2-yl)methyl](4-methylphenyl)amino]phenolis

A. phentolamine B. tolazoline C. naphazoline D. phenoxybenzamine

QUESTION. 4 Which of the following catecholamines is a poor substrate for Monoamineoxidase:

A. Noradrenaline B. Dopamine C. Isoprenaline D. All of these

QUESTION. 5 The starting material used for the synthesis of salbutamol is

A. phenylacetonitrile B. methylsalicylate C. 4-hydroxypropiophenone D. mesitylene

QUESTION. 6 Which of the following statements is not true for Nor-epinephrine:

A. Dopamine is converted to Nor epinephrine by Dopamine-β-hydroxylase.

B. Noradrenaline is converted to Adrenaline (Epinephrine) by N-methyltransferase in the adrenal medulla.

C. Nor epinephrine is metabolized by monoamine oxidase (MAO) and Catechol-o-methyl transferase (COMT).

D. Administered by i.v. infusion it causes tachycardia due to activation of Beta receptors.

QUESTION. 7 Activation of 2 receptors leads to all of the following, except:

A. Platelet aggregation B. Inhibition of lipolysis C. Glycogenolysis D. None of these

QUESTION. 8 Identify the ANS acting drug containing quinazoline ring

A. naphazoline B. tetrahydrozoline C. prazosin D. both a & b

QUESTION. 9 IUPAC name of terbutaline is

A. 5-[2-[(1,1-dimethylethyl)amino]-1-hydroxyethyl]-1,3-benzenediol

B. 5-[2-[(2,2-dimethylethyl)amino]-1-hydroxyethyl]-1,3-benzenediol

C. 5-[3-[(1,1-dimethylethyl)amino]-1-hydroxyethyl]-1,3-benzenediol

D. 5-[2-[(1,1-dimethylethyl)amino]-1-hydroxyethyl]-3,4-benzenediol

QUESTION. 10 The intermediate aziridinium ion is formed by one of these adrenergic agents. Identify it.

A. phenoxybenzamine B. tolazoline C. prazosin D. phentolamine

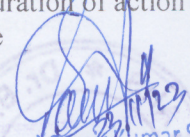
QUESTION. 11 Adrenaline should not be coadministered with Halothane, because it causes:

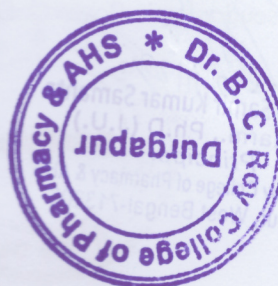
A. Cardiac toxicity

B. Malignant hyperthermia

C. Prolongs duration of action due to local vasoconstriction

D. All of these

  
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QUESTION. 12 Therapeutic indication of Amphetamine includes:  
A. Obesity B. ADHD in children C. Narcolepsy D. All of these

QUESTION. 13 One of the possible metabolites of propranolol is  
A. naphthoxylacticacid B. naphthoxypropionicacid C. naphthoxyalkanesulphonicacid  
D. aryloxypropionicacid

QUESTION. 14 Which of the following drugs is a competitive inhibitor of MAO:  
A. Ephedrine B. Amphetamine C. Epinephrine D. Phenylephrine

QUESTION. 15 Which of the following is not a therapeutic indication of Clonidine:  
A. Hypertension B. Rebound hypertension C. Management of drug withdrawal D. Treatment of diarrhea in diabetic neuropathy

QUESTION. 16 IUPAC name of salmeterol is  
A. 2-(hydroxymethyl)-4-{1-hydroxy-2-[6-(4-phenylbutoxy)hexylamino]ethyl}phenol  
B. 2-(hydroxyethyl)-4-{1-hydroxy-2-[6-(4-phenylbutoxy)hexylamino]ethyl}phenol  
C. 2-(hydroxypropyl)-4-{1-hydroxy-2-[6-(4-phenylbutoxy)hexylamino]ethyl}phenol  
D. 2-(hydroxymethyl)-4-{1-amino-2-[6-(4-phenylbutoxy)hexylamino]ethyl}phenol

QUESTION. 17 Identify the odd combination  
A. Timolol-thiadiazole B. Atenolol-amide C. Acebutolol-acetyl D. Pindolol-naphthalene

QUESTION. 18 Clonidine is  
A. monoaminooxidase inhibitor containing imidazolidine ring  
B. monoaminooxidase inhibitor containing pyrazolidine ring  
C. arterial & venous vasodilator containing pyrazolidine ring  
D. arterial & venous vasodilator containing imidazolidine ring

QUESTION. 19 The term trans refers to conformational isomers where two principal groups are separated by a torsion angle of  
A. 60 degrees B. 90 degrees C. 120 degrees D. 180 degrees

QUESTION. 20 Identify the ideal chelating agent used when calcium is titrated in presence of magnesium  
A. EDTA B. EGTA C. Calmagite D. Eriochrome Black T

QUESTION. 21 Principle method for measuring viscosity is  
A. Capillary viscometer B. Co centric cylinder viscometer C. Falling sphere viscometer D. All of these

QUESTION. 22 Ratio of relaxation time of a material to the time scale of a deformation is called  
A. Reynolds number B. Weissenberg number C. Deborah number D. Mass number

QUESTION. 23 Unit of kinematic viscosity is  
A. Stokes B. Poise C. Centi poise D. All

QUESTION. 24 If fluid displays continuous decrease in their viscosity with increase of shear rate, the fluid exhibits  
A. Dilatant flow B. Pseudoplastic flow C. Plastic flow D. Newtonian flow

QUESTION. 25 Bingham body exhibits  
A. Plastic flow B. Pseudoplastic flow C. Dilatant flow D. None

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QUESTION. 26 Ostwald viscometer is generally used to determine viscosity of  
A. Newtonian fluid B. Non Newtonian fluid C. Both D. None

QUESTION. 27 Advantages of Salbutamol over Metaproterenol (non selective agonists) includes:  
A. Causes bronchodilation without causing cardiac stimulation  
B. Has better pharmacokinetic profiles.  
C. Once daily dosing  
D. All of these

QUESTION. 28 Solochrome black, a metal ion indicator also known as  
A. Calcichrome B. Zincon C. Patton and Reeder's indicator D. Eriochrome Black T

QUESTION. 29 Dilatant flow is also known as  
A. Plastic flow B. Pseudoplastic flow C. Shear thickening flow D. Shear thinning flow

QUESTION. 30 Adrenergic agonist used as nasal decongestant is:  
A. Oxymetazoline B. Formoterol C. Pseudoephedrine D. Colterol

QUESTION. 31 Sol to gel transformation is called  
A. Thixotropy B. Negative thixotropy C. Bulges D. Spurs

QUESTION. 32 Drug of choice for causing Uterine relaxation is:  
A. Terbutaline B. Oxymetazoline C. Isoxsuprine D. Ritodrine

QUESTION. 33 During digestion formation of larger particles at the expense of smaller particles is known as  
A. Ostwald ripening B. Peptization C. Nucleation D. Occlusion

QUESTION. 34 Which of the following drugs is not a selective 2 agonist:  
A. Clonidine B. C. Guanafacine D. Phenylephrine

QUESTION. 35 Region between up and down curve of thixotropic system is called  
A. Bulges B. Spurs C. Rheogram D. Hysteresis loop

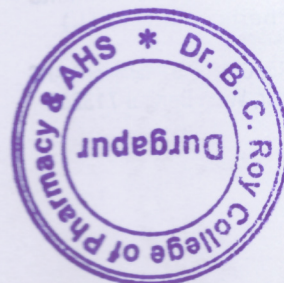
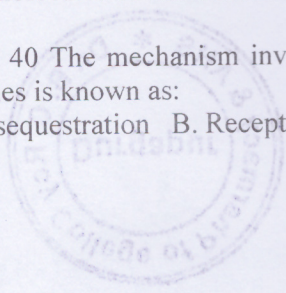
QUESTION. 36 Orally active selective vasodilator drug is:  
A. Hydralazine B. Ephedrine C. Amphetamine D. Ibopamine

QUESTION. 37 Ubbelohde viscometer is a modified form of  
A. Falling sphere viscometer B. Hoeffler viscometer C. Ostwald viscometer D. Brookfield viscometer

QUESTION. 38 The drug used to lower intraocular tension after LASER surgery is:  
A. Phenylephrine B. Dipivefrin C. Apraclonidine D. Timolol

QUESTION. 39 Cohesive forces are the forces acting  
A. Between the water and glass capillary tube B. Between the molecules of same material  
C. Between molecules of different materials D. Due to gravity

QUESTION. 40 The mechanism involved in the desensitization of receptors, after repeated exposure to catecholamines is known as:  
A. Receptor sequestration B. Receptor down regulation C. Receptor phosphorylation D. All of these



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QUESTION. 41 Contact angle forming between magnesium stearate and water is larger than that between lactose and water because

- A. Magnesium stearate is more hydrophilic B. Magnesium stearate is more hydrophobic  
C. Lactose has more surface energy D. Both have equal hydrophilicity

QUESTION. 42 Which of the following has zero dipole moment

- A. Carbon tetrachloride B. Chloroform C. Water D. metadinitrobenzene

QUESTION. 43 Parachor is

- A. Additive property B. Constitutive property C. Both D. None

QUESTION. 44 What is the main result of adding surfactant into a liquid composed of two immiscible phases such as water and oil

- A. Reduction in the interfacial tension between the two phases  
B. Increase in the interfacial tension between the two phases  
C. Catalyzation of the chemical reaction between the two phases  
D. Nothing

QUESTION. 45 Process of dispersing an insoluble material in liquid as colloid is called

- A. Occlusion B. Nucleation C. Coagulation D. Peptization

QUESTION. 46  $\tau = KMa$ , equation is known as

- A. Mark Houwnik equation B. Stokes equation C. Gibb's equaiton D. Newton's equation

QUESTION. 47 Lyophobic colloid is also called

- A. Emulsoid B. Suspensoid C. both D. none

QUESTION. 48 G protein coupled receptors are also known as

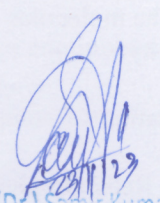
- A. Ionotropic receptors B. Kinase linked receptor  
C. Nuclear receptor D. Metabotropic receptor

QUESTION. 49 Clonidine is favored as an antihypertensive, if the hypertension is complicated by renal disease, because:

- A. It is lipophilic in nature. B. It does not alter renal blood flow or glomerular filtration rate C. It is not excreted through renal mechanisms D. All of these

QUESTION. 50 Stalagmometer is used to determine

- A. Viscosity of Newtonian fluid B. Viscosity of Non Newtonian fluid  
C. Vapour pressure of liquid D. Surface tension of liquid

  
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