## **GPAT Sample Questions**

1. A Pharmaceutical company plans to market a generic version of a drug produce whose patent has expired has expire(d) Which type of documentation must be submitted to the FDA
(a) IND (b) NDA (c) ANDA (d) SNDA & Letter of intent
<ul><li>2. Which of the following does not produce azeotropic mixture with water</li><li>(a) Methanol (b) Ethanol</li><li>(c) Propanol (d) Isopropanol</li></ul>
3. For a particular durg, the rate of absorption but not the extent of the absorption of GIT, is affected by presence of food in GIT then taking the drug with food will result in (a) Smaller area under the plasma drug concentration time curve (b) Smaller maximal plasma drug concentration (c) Smaller time at which the maximal plasma drug concentration occurs (d) Smaller fractional bioavailability and total clearance  4. According to USP Alcohol contains (a) 94.9 to 96% Ethanol (b) 94.9 to 96% Methanol (c) 50% Ethanol (d) 50% Methanol
<ul> <li>5. What does in mean that a cell is polyploid</li> <li>(a) That is contains more than 2 copies of one or a few of its of chromosomes</li> <li>(b) That is contains more than 2 copies of a full set of homologous chromosomes</li> <li>(c) That is contains more than 2 copies of its sex chromosome</li> <li>(d) That is contains more than 2 copies of its autosomal chromosomes</li> </ul>
6. Amount of dextrose in large volume infusion fluids (a) 5% w/v (b) 10% w/v (c) 25% w/v (d) 50% w/v

7. \_\_\_\_\_, Anthelmintics having Immunosuppressant activity. (a) Piperazine

<ul><li>(b) Levamisole</li><li>(c) Ivermectin</li><li>(d) Niclosamide</li></ul>
<ul> <li>8. Choose correct statement for PEGylation:</li> <li>(A) Used to enhance In-vivo half-life of smaller Peptides and proteins</li> <li>(B) Avoidance of Reticulo-endothelial (RES) clearance</li> <li>(C) Reduce clearance rate through kidney</li> <li>(D) All</li> </ul>
<ul> <li>9. Characteristics feature if hemorrhagic dengue fever is</li> <li>(a) Reduction in platelet count</li> <li>(b) Reduction in RBC count</li> <li>(c) Reduction in coagulation factors</li> <li>(d) Increased RBC</li> </ul>
10. The carbonyl starching frequency for simple aldehydes, ketones, and carboxylic acids is about 1710 cm-1 whereas the carbonyl stretching frequency for esters is about
(a) 1650 (b) 1700 (c) 1750 (d) 1850
11. Plarographic method of analysis to obtain individual amounts of Cu2+ and Cd2+ in a given mixture of the two ions (Cu2+ and Cd2+) is achieved by measuring their (a) Half-wave potentials (b) Migration currents (c) Decomposition potentials (d) Diffusion currents
12. Consider the reaction: A B C The unit of the thermodynamic equilibrium constant for the reaction is (a) mol L-1 (b) L mol-1 (c) mol2 L-2 (d) Dimensionless
<ul> <li>13, system does not have orifice to release the drug.</li> <li>(a) Elementary Osmotic Pump</li> <li>(b) L-OROS</li> <li>(c) Sandwich Osmotic Pump Tablet</li> <li>(d) Controlled Porosity Osmotic Pump Tablet</li> </ul>

- 14. Sanguinarine belongs to the subgroup of:
- (a) Morphinans
- (b) Benzyl isoquinolines
- (c) Phthalide isoquinolines
- (d) Benzophenanthrenes
- 15. Identify the IUPAC of dexamethasone
- (a) 2-Chloro-6, 9-difluoro-11, 17, 21-trihydroxy-16-methylpregna-1,4-dien-3, 20-dione
- (b) 9-Fluoro-11, 17, 21-trihydroxy-16-methylpregna-1, 4-diene-3, 20-dione
- (c) 9-Fluoro-11, 17, 21-trihydroxy-16-methylpregna-1, 4-diene-3, 20-dione
- (d) 6-Fluoro-11, 21-dihydroxy-16-methylpregna-1, 4-diene-3. 20-dione
- 16. Tamoxifen is nonsteroidal drug acting at steroid receptor(s) It produces which type of effects
- (P) Androgen (Q) Antiestrogen
- (R) Antiprogestogen (S) Estrogen
- (a) P and Q
- (b) Q and S
- (c) Q and R
- (d) R and S
- 17. Which enzymes is used by the HIV to form DNA in the host cell
- (a) Restriction endonuclease
- (b) DNA-directed polymerase only
- (c) Reverse transcriptate only
- (d) Both (b)and (c)
- 18. 'Sparging' is the process where
- (a) Silanol groups react with trimethylsilyl group
- (b) An inert has is bubbled through the solvent reservoir to remove dissolved gases

repare

- (c) Solvents are mixed together in a fixed ratio
- (d) Column is washed with solvents from nonpolar to polar and reverse
- 19. Morphine does not cause:
- (a) Constriction of pupil
- (b) CNS depression
- (c) Respiratory depression
- (d) Diarrhoea
- 20. Which of the following is not recommended in patients with renal insufficiency or cardiac dysfunction
- (a) Aloe
- (b) Bisacodyl

(c) Isapghol (d) Magnesium hydroxide
<ul><li>21. Higuchi model is applicable to drug that is In the formulation</li><li>(a) Dissolved in formulation</li><li>(b) Dispersed in formulation</li><li>(c) Chemically bound to carrier in formulation</li><li>(d) Osmotically controlled in the formulation</li></ul>
<ul><li>22. Which of the following in correct about parenteral nutrition</li><li>(a) Parentral nutrition solutions are hypertonic solutions and IV fluids are isotonic</li><li>(b) Parentralnutribtionsolutions and IV preparations are isotonic solutions</li><li>(c) Parentral nutrition solutions are hypertonic solutions and IV fluids are isotonic</li><li>(d) Parentral nutrition solutions can be supplemented with mediacations</li></ul>
23. Cyclic AMP (cAMP) is an important second messenger in signal transduction pathway(s)Which enzyme catalyzes the generation/accumulation of cAMP after a receptor – ligand interaction (a) Protein kinase A (b) cAMP phosphodiesterase (c) Guanylyl cyclase (d) Adenylate cyclase
24. Which of the following in not include in immunization programme as per WHO recommendations for all children

25. Match the given condition with appropriate drug used for its treatment

(3) Anemia associated with chronic renal failure (R) Ratenteral Vitamin B12

(4) Thrombocypeniadue to cancer chemotherapy (S) Folic acid

26. In mammals, The major fat in adipose tissue is:

over · Prepare · Achieve

(b) Oral polio(c) Measels

(d) Typhoid

(a) 1-P, 2-Q, 3-R, 4-S (b) 1-R, 2-S, 3-P, 4-Q (c) 1-R, 2-Q, 3-S, 4-P (d) 1-R, 2-P, 3-S, 4-Q

(a) Triglyceride(b) Cholesterol

(1) Pernicious anemia (P) Erythropetin(2) Meagaloblastic anemia (Q) Oprelvekin

- (c) Sphingophospholipids
- (d) Phospholipids
- 27. Plarographic method of analysis to obtain individual amounts of Cu2+ and Cd2+ in a given mixture of the two

ions (Cu2+ and Cd2+) is achieved by measuring their

- (a) Half-wave potentials
- (b) Migration currents
- (c) Decomposition potentials
- (d) Diffusion currents
- 28. What is the objective of trademark
- (a) To claim exclusive properties of products or services
- (b) To claim innovation of products or services
- (c) To deal with market place of expressive ideas
- (d) To protect consumers from being misled
- 29. Turbulent flow is exhibited by fluids whose
- (a) Re<40'
- (b) Re>40'
- (c) Re=40
- (d) All of the above
- 30. Characteristics of drug-protein binding
- (P) Often parallels drug lipid solubility
- (Q) Drug-plasma albumin binding tends to be relatively nonselective
- (R) Acidic drugs bind to albumin while basic drug bind to glycoproteins
- (S) In rheumatoid arthritis patients, increased alpha1- acidic glycoprotein tends to promote increased lidocaine protein binding