# Pharmacology II B. Pharm. 5th Semester Model Question Paper

Topic Covered Unit 3: Autacoids

Unit 4: Endocrine Pharmacology

Unit 5: Bioassay

# **Important Questions for Practice only**

# Semester #GPAT #NIPER #Pharmacist #DI

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### Section 1 MCQs

- 1. Positive Inotropic Effects of histamine is related to
- a). H1 R
- b) H2 R
- c) H3 R
- d) H4 R
- 2. Match the related ans
- 1. DiphenhydramineP. Morning Sickness
- 2. Cinnargine
- Q. Centrally anti-cholinergic activity

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By Rajesh Choudhary

- 3. Doxylamine
- R. Torsades de Point
- 4. Terfinadine
- S. Raynaud's phenomeno
- 5. Ketanserin
- T. Antivertigo
- a) 1-S, 2-T, 3-P, 4-R, 5-Q
- b) 1-Q, 2-T, 3-P, 4-R, 5-S
- c) 1-Q, 2-P, 3-T, 4-R, 5-S
- d) 1-Q, 2-T, 3-P, 4-S, 5-R

<ul> <li>3. The antihistaminic which are we point are:</li> <li>a) Astimazole &amp; Terfinadine</li> <li>b) Terfinadine &amp; Diphenhydramin</li> <li>c) Promethazine &amp; Astimazole</li> <li>b) ALL</li> </ul>	ithdrawn to market due to danger Torsades de e
4. The following is a 5HT3 recept	or antagonist:
a) Buspirone <b>b) Ondanse</b> t	_
c) Sumatriptan d) Cisapride	
5. The prostanoid that consistentl	y constricts blood vessels is:
a) Prostaglandin E2	b) Prostaglandin F2alfa
c) Thromboxane A2	d) Prostacyclin
5, 11115	u) i roctacyciii
6. Which is NOT a cysteinyl LTs	
a) LTB4	b) LTC4
c) LTD4	d) LTE4
C) ETB4	d) LTL4
7. Facegraids generated from	
7. Ecosanoids generated from	h) 24 C atom
a) 20-C atom	b) 21-C atom
c) 22-C atom	harrd) 23-Catomgy Concepts
8. Which is a vasoconstrictor Vasoactive Peptide h Choudhary	
a) VIP	b) Bradykinin
c) Endothelin	d) Substance P
9. Selective Cox2 inhibitor	
a) Paracetamol	b) Indomethacin
c) Ibuprofen	d) Etoricoxib
c) ibupioleii	u) Etoricoxib
10. Long term uses of Aspirin ma	ay cause
a) Ulcer	b) Asthma
c) Salicylism Syndrome	d) All
11. which is the uric acid synthes	is inhibitor
a) probenecid	b) Allopurinol
c) Aspirin	d) Sulphinpyrazole

12. Drug used in RA		
a) Methotrexate	b) corticosteroid	
c) Leflunomide	d) Etanercept	
e) All		
13. Select an endocrine drug which is a steroidal derivative:		
a) Gonadorelin	b) Insulin	
c) Levothyroxine	d) Hydrocortisone	
14 Regarding the mechanism of	action of steroidal hormones, indicate the	
statement:	delicit of etc. citati memorico, maistate are	
a) Hormones interact with the	specific receptors in the inside the cells	
b) Cyclic AMP acts as a second i		
c) They stimulate adenylcyclase	enzyme	
d) act on LGIC		
15. W <mark>hich of the</mark> fo <mark>llowing orga</mark> ns	s is a <mark>tar</mark> get for p <mark>rol</mark> acti <mark>n?</mark>	
a) Liver	b) A <mark>dre</mark> nal cortex	
c) Thyroid	d) M <mark>am</mark> m <mark>ary gland</mark>	
16. <mark>Indications of</mark> b <mark>romocriptine</mark> a	are fol <mark>low</mark> ing, EXCEPT:	
a) Pr <mark>olactin-secre</mark> ti <mark>ng adenom</mark> as		
b) Ame <mark>norrhea-G</mark> alactorrhea	harmacology Concepts	
d) Acromegaly	By Rajesh Choudhary	
17. Currently used dopamine agonists decreasing pituitary prolactin secretion are		
following:		
a) Bromocriptine	b) Cabergoline	
c) Pergolide	d) All of the above	
18. Indications of vasopressin are	o following:	
a) Diabetes mellitus	b) Hypertension	
c) Pituitary diabetes insipidus	· • •	
a) meempleted agentiem		
19. Oxytocin produces the following effects:		
a) It causes contraction of the uterus		
b) It brings about milk ejection from the lactating mammary gland		
c) All of the above		

- 20. Currently used antithyroid drugs include the following, EXCEPT:
- a) Propylthiouracil (PTU)
- b) Diatrizoate sodium (Hypaque)
- c) Methimazole (Tapazole)
- d) Potassium perchlorate
- 21. Radioiodines in the body emit:
- a) Mainly  $\beta$  radiations
- b) Mainly γ radiations
- c)  $\beta$  and  $\gamma$  radiations equally.
- d) Do not emit any radiation, therefore, are safe
- 22. Insulin causes reduction in blood sugar level by the following mechanisms, EXCEPT:
- a) Increased glucose uptake in the peripheral tissue
- b) Reduction of breakdown of glycogen
- c) Diminished gluconeogenesis
- d) Decreased glucose absorption from the gut
- 23. Insulin can not be administered by:
- a) Oral route
- b) Intravenous route
- c) Subcutaneous route
- d) Intramuscular route.
- 24. Sources of human insulin production are:
- a) Recombinant DNA techniques by inserting the proinsulin gene into *E. coli* or yeast

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- b) Postmortem insulin extraction from human autopsy pancreas
- c) All of the above
- d) None of the above
- 25. Correct statements about crystalline zinc (regular) insulin include all of the following, EXCEPT:
- a) It can serve as replacement therapy for juvenile-onset diabetes
- b) It can be administered intravenously
- c) It is a short-acting insulin
- d) It can be administered orally

26. Sulphonylureas act by: a) Reducing the absorption of carbohydrate from the gut b) Increasing the uptake of glucose in peripheral tissues c) Reducing the hepatic gluconeogenesis d) Stimulating the beta islet cells of pancreas to release insulin 27. Thiazolidinediones act by: a) Diminishing insulin resistance by increasing glucose uptake and metabolism in muscle and adipose tissues b) Reducing the absorption of carbohydrate from the gut c) Stimulating the beta islet cells of pancreas to produce insulin d) All of the above 28. Currently used alpha-glucosidase inhibitors include the following, EXCEPT: a) Pioglitazone (Actos) b) Acarbose (Precose) c) Miglitol (Glyset) d) All of the above 30. The major natural estrogens produced by women are following, EXCEPT: a) Estradiol (Estradiol-17β, E2) b) Estron (E1) c) Ethinyl estradiol d) Estriol (E3) 31. The major synthetic estrogens are following, EXCEPT: a) Dienestrol b) Diethylstilbestrol d) Estradiol c) Benzestrol Pharmacology Concepts 32. Tamoxifen is: b) Antiandrogen Oudhary a) Antiprogestin d) Androgen c) Antiestrogen 33. Progesterone is secreted mainly by: a) Ovarian follicles b) Corpus luteum c) Granulosa and theca cells d) None 34. The major natural progestin is: a) Estradiol b) Estron

d) Estriol

35. Mifepristone (RU-486) is:

c) Progesterone

a) Antiprogestinb) Antiandrogenc) Antiestrogend) Androgen

- 36. All of the following statements about oral contraceptives are true, EXCEPT:
- a) The "combination pill" contains both estrogen and progestin
- b) Ethinyl estradiol and mestranol are commonly used in oral contraceptives
- c) The "minipill" contains progestin alone
- d) The "triphasic pill" contains estrogen, progestin, and luteinizing hormine (LH)
- 37. Glucocorticoids are hormonal steroids:
- a) Having an important effect on intermediary metabolism, cardiovascular function, growth, and immunity
- b) Having principally salt-retaining activity
- c) Having androgenic or estrogenic activity
- d) All of the above
- 38. Which of the following glucocorticoids is a short- to medium-acting drug?
- a) Prednisolon

b) Dexamethasone

c) Triamcinolone

- d) All of the above
- 39. Anti-inflammatory effect of glucocorticoids is caused by
- a) Reducing the prostaglandin and leukotriene which results from inhibition of phospholipase A2
- b) Reducing macrophages migration into the site of inflammation
- c) Decreasing capillary permeability
- d) All of the above

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- 40. Immunosupressive effect of glucocorticoids is caused by:
- a) Reducing concentration of lymphocytes (T and B cells) and inhibiting function of tissue macrophages and other antigen-presenting cells
- b) Suppression of cyclooxygenase II expression which results in reducing amount of an enzyme available to produce prostoglandins
- c) Activation of phospholipase A2 and reducing prostaglandin and leukotriene synthesis.
- d) All of the above
- 41. Which of the following NSAIDs is a nonselective COX inhibitor

a) Piroxicam

b) Rofecoxib

c) Celecoxib

- d) All of the above
- 42. Which bioassay is a type of quantal (End type) bioassay method
- a) Digitalis induced cardiac arrest model
- b) Histamine induced contractile response in Guinea pig model
- c) bioassay of serotonin by rat fundus model
- d) bioassay of oxytocin by rat uterus model

- 43. which model used for bioassay of insulin
- a) hypoglycemic effects on rabbit
- b) hypoglycemic effects on rats/mice
- c) observation of glycogen content by using isolated diaphragm model
- d) all
- 44. Conc. Of unknown = n1/t \* Antilog {T-S1/ S2-S1 \* log n2/h1} this formula for
- a) 3-point bioassay
- b) 4-point bioassay
- b) 6-point bioassay
- d) none
- 45.\_\_\_\_\_is an example of graded response.
- a) Effect of Ach on muscle
- b) Hypoglycemic convulsion by insulin
- c) Cardiac arrest of Digitalis
- d) None of the above
- 46. Bioassaay of histamine on isolated guinia pig ileum is determined by
- a) Matching bioassay
- b) Interpolation bioassay
- c) Bracketing bioassay
- d) All of these

## Section 2. Long Answer Type Questions

1. Define the Autacoids, classify them and discuss the pharmacology of Histamine or Serotonin

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- 2. Define and Classify the NSAIDs. Discuss the Pharmacology of Aspirine
- 3. Classify the Diabetes Meletus and drug used in hyperglycaemia. Explain the pharmacology of Sulfonylureas.
- 4. Classify the steroidal hormones and discuss the pharmacology of corticosteroids

### **Section 3. Short Answer Type Questions**

- 1. Prostaglandins
- 2. Bioassay of Insulin or Digitalis or oxytocin
- 3.Antirheumatoid Drugs
- 4. Oral contraceptive drugs
- 5. Bioassay
- 6. Anti-gout drugs (Colchicine)
- 7. Androgens
- 8. Vasoactive peptides
- 9. Antithyroid drugs (Propylthiouracil, Methimazole)