

02/01/2023

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**BP 503 T**

Roll No. of candidate

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2022

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**B.Pharm. 5<sup>th</sup> Semester End-Term Examination**

**Pharmacy**

**PHARMACOLOGY – II**

**(New Regulation)**

Full Marks – 75

Time – Three hours

1. Answer all the questions: (20 × 1 = 20)
- (i) ADR of thiazide diuretic is
- (a) Hyperkalaemia
  - (b) Hypokalaemia
  - (c) Hypocalcaemia
  - (d) None
- (ii) Which compound should be used along with Nitrates for cyanide poisoning
- (a) Sodium thiosulphate
  - (b) Isosorbide dinitrate
  - (c) Nicorandil
  - (d) None
- (iii) Dry cough can occur by the administration of
- (a) Captopril
  - (b) Losartan
  - (c) Hydrochlorothiazide
  - (d) Furosemide
- (iv) Potassium Channel opener with Antianginal Activity is
- (a) Nicorandil
  - (b) Dipyridamole
  - (c) Trimetazidine
  - (d) Oxyphedrine
- (v) Octreotide is a long-acting synthetic analogue of:
- (a) Prolactin
  - (b) Growth hormone
  - (c) Somatostatin
  - (d) Gonadotropin releasing hormone

[Turn over

- (vi) Hyperprolactinemia can cause the following **except**:
- (a) Amenorrhoea
  - (b) Gynaecomastia
  - (c) Multiple ovulation
  - (d) Depressed fertility
- (vii) Actions of growth hormone include the following **except**:
- (a) Increased protein synthesis
  - (b) Increased fat utilization
  - (c) Increased carbohydrate utilization
  - (d) Glucose intolerance
- (viii) Following antiheumatic drug is a folic acid antagonist with cytotoxic and immunosuppressant activity
- (a) Methotrexate
  - (b) Cyclosporine
  - (c) Penicillamine
  - (d) Sulfasalazine
- (ix) Following diuretics can enhance digitalis toxicity
- (a) Spironolactone
  - (b) Amiloride
  - (c) Furosemide
  - (d) None of above
- (x) Atorvastatin is a
- (a) Bile acid binding resins
  - (b) HMG – CoA reductase inhibitors
  - (c) Lipoprotein lipase activators
  - (d) MTP inhibitor
- (xi) Following is a H<sub>1</sub> Receptor antagonist which is highly sedative
- (a) Cimetidine
  - (b) Chlorpheniramine
  - (c) Levocetirizine
  - (d) Promethazine
- (xii) Ondansatron is
- (a) Very helpful in chemotherapy induced emesis
  - (b) 5HT<sub>1</sub> antagonist
  - (c) Obtained from ergot alkaloids
  - (d) None of the above

- (xiii) Following anticoagulant is stored along with histamine
- (a) Warfarin
  - (b) Enoxaparin
  - (c) Vitamin K
  - (d) Heparin
- (xiv) Inhibition of platelet aggregation can be achieved by
- (a) Diclofenac sodium
  - (b) Ibuprofen
  - (c) Aspirin
  - (d) None of above
- (xv) Probenecid acts by
- (a) Decrease the uric acid synthesis
  - (b) Increase the excretion of uric acid
  - (c) Inhibiting neutrophil migration into joints
  - (d) Both A, B and C
- (xvi) The insulin receptor is
- (a) Ion channel regulating receptor
  - (b) Tyrosine protein kinase receptor
  - (c) G protein coupled receptor
  - (d) None of above
- (xvii) Gynaecomastia can be treated by
- (a) Chlorpromazine
  - (b) Bromocriptine
  - (c) Cimetidine
  - (d) Metoclopramide
- (xviii) Somatostatine inhibits the release of
- (a) Growth hormone
  - (b) Thyrotropin
  - (c) Insulin
  - (d) All the above
- (xix) "All or None" response is measured in
- (a) Graded Response Bioassay
  - (b) Quantal Bioassay
  - (c) Multiple point Bioassay
  - (d) None of above
- (xx) Following is an effective tocolytic drug
- (a) Magnesium Sulfate
  - (b) Oxytocin
  - (c) Prostaglandin
  - (d) Ergometrine

2. Answer any Seven:

- (a) Classify antihistaminic drugs with examples and mention their uses. (5)
- (b) Write down the examples of high ceiling diuretics with their MOA, use and ADR. (5)
- (c) What are the pharmacological actions of corticosteroids? (5)
- (d) Write short notes on any two: (2.5+2.5 = 5)
  - (i) Hematinic
  - (ii) Plasma volume expanders
  - (iii) Anticoagulants
- (e) Write down the examples and MOA of Class I antiarrhythmic drugs. (5)
- (f) Mention the pharmacological actions of prostaglandin. Classify NSAID with mechanism of actions. (2+3=5)
- (g) Elaborate in brief about the drugs used in dyslipidemia. (5)
- (h) Write a short note on regulation of secretion of Prolactin and its physiological functions. (5)
- (i) What is Rheumatoid arthritis (RA)? Explain the pharmacotherapy of RA. (1+4=5)
- (j) Classify anti-gout drugs with suitable examples. Mention their MOA and ADR. (5)

3. Answer any Two:

- (a) What are the applications of Bioassay? Classify different types of bioassay and explain in details with examples. (3+7=10)
- (b) Classify antihypertensive drugs with suitable examples. Explain the MOA and ADR or each class. (3+7=10)
- (c) Classify oral hypoglycemic agents with examples and MOA. Write a note on insulin. (6+4=10)