

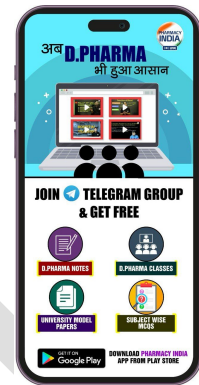
DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO.  
QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE  
**ANSWER THE QUESTIONS SERIALY AND CONTINUOUSLY**

*Subject: PHARMACOLOGY (Theory)*

Full Mark - 80

Time - 3 Hrs.

1. Answer any six of the following: (6x5)
- Define biotransformation. Explain the different steps involved in Phase-I reaction.
  - Define & classify opioid analgesic. Write the pharmacological action of morphine.
  - Define arrhythmia. Classify anti-arrhythmic drugs. Write the mechanism of action, adverse effect & uses of quinidine.
  - Write the transducer mechanism of GPCRs.
  - Give a note on the pharmacology of para sympatholytic agents.
  - Give the classification & pharmacology of the antianxiety drug.
  - Write a short note on Histamine.
2. Answer any ten questions: (10x3)
- Give a note on Nootropic agents.
  - Give the classification of anti-viral drugs. Write the mode of action of the anti-herpes drugs.
  - How  $\beta$ -sympathomimetics drugs act as a bronchodilator?
  - Define and classify antiemetic drugs.
  - Why synthetic Estrogen is produced and how it works?
  - Write mechanism action, adverse effect, and uses of proton pump inhibitor.
  - Write the classification of antiepileptic drugs & write the mechanism action of phenytoin.
  - Classify aminoglycoside antibiotics & their therapeutic uses.
  - Write mechanism action of digitalis.
  - Write about the pharmacological action of atropine.
  - Define Gout. Classify anti-gout drugs. Write the mechanism action of Allopurinol.
3. Define the following terms: (1x20)
- |                      |               |                     |                          |
|----------------------|---------------|---------------------|--------------------------|
| a) Drug resistance   | b) Receptor   | c) Tachyphylaxis    | d) Cumulative effect     |
| e) Agonist           | f) SERMs      | g) Bioavailability  | h) Acquired tolerance    |
| i) Myasthenia gravis | j) Drug abuse | k) Cardiogenic      | l) First pass metabolism |
| m) Storage depots    | n) Glaucoma   | o) Teratogenicity   | p) Anti-metabolites      |
| q) Idiosyncrasy      | r) Inunction  | s) Drug interaction | t) Therapeutic index     |



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