

## B.Pharm. IInd Year (CBCS Pattern) Sem-IV

P. Pages : 3

\* 2 3 8 0 \*

Max. Marks : 75

- 1.** Multiple choice questions.

**20x1**

**=20**

- GUG/W/22/11991**

- 10) Zolpidem act on GABA<sub>A</sub> receptor
  - a) True
  - b) False
- 11) The 'general anesthetic' generally produce.
  - a) Analgesia
  - b) Loss of consciousness
  - c) Amnesia
  - d) All
- 12) Barbiturates are more safer than benzodiazepines
  - a) True
  - b) False
- 13) First known anticonvulsant drug was -----
  - a) Phenobarbital
  - b) Phenytoin
  - c) Paraldehyde
  - d) Potassium bromide
- 14) General anaesthetic, which is an inhibitor of NMDA glutamate receptors is
  - a) Thiopental
  - b) Halothane
  - c) Ketamine
  - d) Sevoflurane
- 15) Which of the following NSAID's is a non selective cox inhibitor.
  - a) Celecoxib
  - b) Rofecoxib
  - c) Piroxicam
  - d) All
- 16) Tick narcotic analgesic, which is a phenylpiperidines derivative.
  - a) Codeine
  - b) Fentanyl
  - c) Dezocaine
  - d) Buprenorphine
- 17) Which of the following opioid analgesics is a strong mu-receptor agonist?
  - a) Morphine
  - b) Naloxone
  - c) Pentazocine
  - d) Buprenorphine
- 18) Which drug is rapid reversible binds covalently with cox-1 & cox -2?
  - a) Aspirin
  - b) Diclofenac
  - c) Naproxen
  - d) Ketorolac
- 19) Ultrashort acting barbiturate used as general anaesthetic.
  - a) Fentanyl
  - b) Thiopental
  - c) Midazolam
  - d) Ketamine
- 20) Morphine was isolated from opium by -----
  - a) Sertuner
  - b) Davy
  - c) Knorr
  - d) Emil Fischer

2. Long answer question. **Any two.**

**10x2  
=20**

- 1) Give SAR of benzodiazepines & synthesis of diazepam.
- 2) Explain the chemistry of morphine. Outline the synthesis of methadone.
- 3) Discuss the physiochemical properties in relation to biological activities & elaborate any two physicochemical properties.

**3. Short answer questions any seven.**

**5x7  
=35**

- 1) Explain Bioisosterism.
- 2) Give synthesis of acetylcholine.
- 3) Give SAR of Barbiturates.
- 4) Give synthesis of mefenamic acid
- 5) Explain stages of general anaesthesia.
- 6) Give SAR of anticonvulsants & MOA of anticonvulsants.
- 7) Explain Phase – I metabolism.
- 8) Write a short note on solanaceous alkaloids.
- 9) Write synthesis of chlorpromazine.

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