

Asutosh College

Sem-4 Examination 2021

Chemistry General

PaperSEC-B1 – Internal Assessment

Instruction: Answer all the questions. Pick the correct alternative and write down only the option chosen against the question number. There is no need to copy the question in full.

Time: 30 min

Full marks=10 (1×10)

1. Identify the kind of interaction that typically involved in binding a drug to the binding site of protein:
(a) Van der Waals interaction (b) Ionic bonds (c) hydrogen bonds (d) combination of all of the above
2. What is meant by ADME in pharmacokinetics?
(a) Affinity, dosage, marketing, efficiency
(b) Absorption, distribution, metabolism, excretion
(c) Agonism, dependence, mobility, efficiency
(d) Antagonism, deficiency, mean, efflux
3. Which enzymes are the target for the quinolone antibacterial agent?
(a) Topoisomerases (b) Kinases (c) Proteases (d) Transpeptidase
4. Which drug is formulated as first pharmaceutical aerosol?
(a) Epinephrine (b) Codeine (c) Probenecid (d) none
5. The cellular organelles called “suicide bag” are
(a) Lysosomes (b) Ribosome (c) Nucleolus (d) Golgi’s bodies
6. The optimal pH for the enzyme rennin is:
(a) 2.0 (b) 4.0 (c) 8.0 (d) 6.0
7. Which of the following terms is used to describe a drug that has the same effect on a receptor as the endogenous chemical messenger?
(a) Agonist (b) Antagonist (c) partial agonist (d) inverse agonist
8. What is meant by a drug’s specifications?
(a) The molecular dimensions of a molecule (b) The physical properties of a drug
(c) The purity tests and purity standards required of a drug (d) The functional groups on a drug that are important to its activity

9. Which of the following statements best describes a lead compound?
- (a) A compound that contains the element lead
 - (b) A compound from the research laboratory that is chosen to go forward for preclinical and clinical trial
 - (c) A molecule that shows some activity or property of interest and serves as the starting point for the development of a drug
 - (d) The first compound of a structural class of compounds to reach the market
10. The process by which DNA is copied to produce two daughter DNA molecules is
- a) translation
 - b) transcription
 - c) reproduction
 - d) replication

~~**Note: Write down your name, college roll number, C.U. roll number and registration number, date and paper of examination in front page of your answer sheet. Write down the answers neatly thereafter. Scan the whole document and make a pdf. Rename your pdf as: CEMG.SECB1.COLLEGE ROLL NUMBER.pdf and send it to the following e-mail of the department: acchemofficial@gmail.com**~~