

QB365

Important Questions - Chemistry in Everyday Life

12th Standard CBSE

Chemistry

Reg.No. :

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Time : 01:00:00 Hrs

Total Marks : 50

**Section - A**

- 1) Structurally a biodegradable detergent should contain a 1  
(a) normal alkyl chain (b) branched alkyl chain (c) phenyl side chain (d) cyclohexyl side chain
- 2) A narrow spectrum antibiotic is active against ..... 1  
(a) gram positive or gram negative bacteria (b) gram negative bacteria only  
(c) single organism or one disease (d) both gram positive and gram negative bacteria
- 3) Which of the following are sulpha drugs ? 1  
(a) Sulphapyridine (b) Prontosil (c) Salvarsan (d) Nardil
- 4) Which one of the following is a bacteriostatic drug ? 1  
(a) Aminoglycosides (b) Penicillin - G (c) Oxofloxacin (d) Ampicillin (e) Tetracycline
- 5) Drug targets are biomolecules such as \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. 1
- 6) Depending upon concentration, phenol can be used both as an \_\_\_\_\_ as well as a \_\_\_\_\_. 1
- 7) The artificial sweetening agent sucrolose is a \_\_\_\_\_ derivative of sucrose. 1
- 8) Soap chips 1  
(1) small broken pieces of soap formed from melted soaps
- 9) Antacids 1  
(2) Treatment of acidity
- 10) Sodium perborate 1  
(3) Milk bleaching agent

**Section - B**

- 11) Describe the following with an example each: (i) Antimicrobials (ii) Analgesics 2
- 12) Why is paracetamol preferred over aspirin? 2
- 13) What is the specific explanation for the feeling of depression? 2
- 14) Sleeping pills are recommended to patients suffering from sleeplessness but it is not advisable to take them without consulting the doctor. 2
- 15) What do you understand by the term chemotherapy ? 2

**Section - C**

- 16) Explain the following terms with suitable examples: 3  
(i) Cationic detergents  
(ii) Anionic detergents.
- 17) (a) Define the term 'Chemotherapy'. (b) While antacids and antiallergic drugs interfere with the function of histamines, why do these not interfere with the function of each other? 3
- 18) Name the action of the following on the human body: (a) Pencillium (b) Morphine (c) Analgin 3

- 19) Name the action of the following on the human body: (a) Luminal (b) Seconal (c) Streptomycin 3
- 20) (i) What class of drug is ranitidine? 3
- (ii) If water contains dissolved  $\text{Ca}^{2+}$  ions, out of soaps and synthetic detergents, which will you use for cleaning clothes?
- (iii) Which of the following is an antiseptic? 0.2% phenol, 1% phenol.

**Section - D**

- 21) Due to hectic and busy schedule, Mr. Singh started taking junk food in the lunch break and slowly became habitual of eating food irregularly to excel in his field. One day during meeting he felt severe chest pain and fell down. Mr. Khanna, a close friend of Mr. Singh took him to doctor immediately. The doctor diagnosed that Mr. Singh was suffering from acidity and prescribed some medicines. Mr. Khanna advised him to eat home made food and change his lifestyle by doing yoga, meditation and some physical exercise. Mr. Singh followed his friend's advice and after few days he started feeling better. 5
- After reading the above passage, answer the following:
- (i) What are the values (at least two) displayed by Mr. Khanna?
- (ii) What are antacids? Give one example.
- (iii) Would it be advisable to take antacids for a long period of time? Give reason
- 22) Mr. Roy, the principal of one reputed school organized a seminar in which he invited parents and principals to discuss the serious issue of diabetes and depression in students. They all resolved this issue by strictly banning the junk food in schools and to introduce healthy snacks and drinks like soup, lassi, milk etc. in school canteens. They also decided to make compulsory half an hour physical activities for the students in the morning assembly daily. After six months, Mr. Roy conducted the health survey in most of the schools and discovered a tremendous improvement in the health of students. 5
- After reading the above passage, answer the following:
- (i) What are the values (at least two) displayed by Mr. Roy?
- (ii) As a student, how can you spread awareness about this issue?
- (iii) What are tranquillizers? Give an example.
- (iv) Why is use of aspartame limited to cold foods and drinks?
- 23) Analgesics are the chemical substances which give relief to the body pains and act on our nervous system. 5
- These are of two types: narcotics and nonnarcotics. Whereas the former lead to addiction and are highly toxic, the later are not.
- (i) Name a substance which can act both as analgesic and antipyretic as well.
- (ii) What is its IUPAC name?
- (iii) How does it help heart patients?
- (iv) What precautions must be taken while taking it?

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