

1. Short answer questions-
  - a) Name the food additives which provide nutritional value to food.
  - b) What are preservatives? Name commonly used preservatives.
  - c) Why do people prefer to use artificial sweetening agents?
  - d) What are Antioxidants? Why are they called sacrificial materials?
  - e) Draw the structures of BHA and BHT. Write the full form of these compounds.
  
2. Multiple choice questions: (single correct option)
  - a) SO<sub>2</sub> and SO<sub>3</sub> are used in:
    - i) Making perfumes
    - ii) Making wine
    - iii) Making dairy products
    - iv) Making textiles
  - b) The natural sugar among the following is:
    - i) Alitame
    - ii) Sucrolose
    - iii) Sodium salt of saccharin
    - iv) Fructose
  
3. Multiple choice questions: (More than one correct option)
  - a) Which among the following act as antioxidants:
    - i) Vitamin C
    - ii) Vitamin E
    - iii) Vitamin B<sub>15</sub>
    - iv) Vitamin H
  - b) Which among the following are used as preservatives:
    - i) Salts of sorbic acid
    - ii) Salts of propanoic acid
    - iii) Epoxides
    - iv) Cyclamate
  
4. Fill in the blanks:
  - a) Flour improvers are \_\_\_\_\_ agents
  - b) Sodium benzoate is used as \_\_\_\_\_.
  - c) Aspartame is an ester of \_\_\_\_\_ & \_\_\_\_\_
  
5. Assertion- reason type question:

In the question given below two statements are given. One is labelled as assertion(A) and the other is reason(R). Read question carefully and mark correct choice I, ii, iii & iv according to given instructions

  - i) If both A & R are correct and R is explanation of A
  - ii) If both A & R are correct and R is not the explanation of A
  - iii) If A is correct & R is wrong
  - iv) If A is wrong & R is correct.
  - a) Reason(R) Preservatives are added to add to improve appearance of food  
Assertion(A) Preservatives increase nutritive value of food
  - b) Reason(R) Saccharin is an artificial sweetening agent  
Assertion(A) Saccharin is not metabolised in the body so doesn't increase calories.

Acknowledgement- The content is referred from: 1. Chemistry NCERT textbook part II Class XII

2. New course chemistry Part-II Class XII

3. Comprehensive chemistry Part-II Class XII

4. Content in some questions is self- generated

**Answer key**

## 1. Short answer questions-

- a) Name the food additives which provide nutritional value to food.
- b) What are preservatives? Name commonly used preservatives.
- c) Why do people prefer to use artificial sweetening agents?
- d) What are Antioxidants? Why are they called sacrificial materials?
- e) Draw the structures of BHA and BHT. Write the full form of these compounds.

## 2. Multiple choice questions: (single correct option)

a) SO<sub>2</sub> and SO<sub>3</sub> are used in:

- i) Making perfumes    ii) Making wine    iii) Making dairy products    iv) Making textiles    Ans-ii

## b) The natural sugar among the following is:

- i) Alitame    ii) Sucrolose    iii) Sodium salt of saccharin    iv) Fructose    Ans- iv

## 3. Multiple choice questions: (More than one correct option)

## a) Which among the following act as antioxidants:

- i) Vitamin C    ii) Vitamin E    iii) Vitamin B<sub>15</sub>    iv) Vitamin H    Ans: I & ii

## b) Which among the following are used as preservatives:

- i) Salts of sorbic acid    ii) Salts of propanoic acid    iii) Epoxides    iv) Cyclamate    Ans- I, ii, iii

## 4. Fill in the blanks:

- d) Flour improvers are \_\_\_\_\_ agents    Ans- Antistaling agents
- e) Sodium benzoate is used as \_\_\_\_\_ .    Ans- Preservative
- f) Aspartame is an ester of \_\_\_\_\_ & \_\_\_\_\_    Ans- Aspartic acid and Phenylalanine

## 5. Assertion- reason type question:

In the question given below two statements are given. One is labelled as assertion(A) and the other is reason(R). Read question carefully and mark correct choice I, ii, iii & iv according to given instructions

- i) If both A & R are correct and R is explanation of A
- ii) If both A & R are correct and R is not the explanation of A
- iii) If A is correct & R is wrong
- iv) If A is wrong & R is correct.
- c) Reason(R) Preservatives are added to add to improve appearance of food  
Assertion(A) Preservatives increase nutritive value of food    Ans- ii
- d) Reason(R) Saccharin is an artificial sweetening agent  
Assertion(A) Saccharin is not metabolised in the body so doesn't increase calories.    Ans- I

Acknowledgement- The content is referred from: 1. Chemistry NCERT textbook part II Class XII

2. New course chemistry Part-II Class XII

3. Comprehensive chemistry Part-II Class XII

Chemistry in everyday life (Module -4/5)

Work sheet

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