

(6 pages)

13/12/23
A/W
Reg. No. :
Code No. : 20021 E Sub. Code : SNCH 4 B/
ANCH 42

U.G. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

Fourth Semester

Chemistry

Non Major Elective: APPLIED CHEMISTRY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The function of a soap is
- (a) Just cleaning the material
 - (b) Most effective way to remove the germs
 - (c) Just washing and cleaning
 - (d) Removing dirt and grease

2. Anionic detergents are
- (a) Cetyl trimethyl ammonium bromide
 - (b) Benzalkonium chloride
 - (c) Sodium-n-dodecyl benzene sulphonate
 - (d) Quaternary ammonium compounds
3. A fertilizer which contains two or more of the elements of nitrogen is called
- (a) Biofertilizers
 - (b) Mixed fertilizers
 - (c) Urea
 - (d) Potassium
4. Which one of the following is used to produce sugar during photosynthesis?
- (a) Nitrogen
 - (b) Urea
 - (c) Triple super phosphate
 - (d) Potash
5. Thermocole is primarily used to manufacture
- (a) Water proof fabric
 - (b) Disposable traps
 - (c) Non-stick cookware
 - (d) Anti friction device

6. Which one of the following is used primarily to coat medical appliances
- (a) Rubber
 - (b) Polyethene
 - (c) Teflon
 - (d) Thermocol
7. _____ can help ease the discomfort of a sore throat
- (a) Aluminium hydroxide
 - (b) Hydrogen peroxide
 - (c) Diazepam
 - (d) Epsom salt
8. The substance which neutralising stomach acidity is
- (a) Sedatives
 - (b) Laxatives
 - (c) Anti acids
 - (d) Anti septic
9. The product which is used to shine, water proof and appearance
- (a) Boot polish
 - (b) Talcum powder
 - (c) Tooth paste
 - (d) Moth balls

10. Which of the following is used to control silver fish and other fisher pests?
- (a) Talcum powder
 - (b) Chalk crayons
 - (c) Agarbattis
 - (d) Moth balls

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write a note on the raw materials used in the manufacture of soap.
- Or
- (b) Explain advantages of detergent.
12. (a) Describe the role of nitrogen in plant growth.
- Or
- (b) Explain biofertilizers.
13. (a) List out the applications of favecol and quick fix.
- Or
- (b) Discuss the applications of Teflon and thermocol.

14. (a) Write a note on mouth washes.

Or

- (b) Discuss on sedatives with an example.

15. (a) List out the applications of tooth powder.

Or

- (b) Discuss on the preparation method of writing inks.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss on the classification of soaps.

Or

- (b) Write a detailed note on the cleansing action of soaps.

17. (a) Describe the role of potassium and phosphorus in plant growth.

Or

- (b) Write a note on the following.

(i) Natural fertilizers

(ii) Chemical fertilizers

18. (a) Define rubber and classify with applications.

Or

- (b) List out the applications of Bakelite and PVC.

19. (a) Discuss on the following:

(i) Antiseptics

(ii) Antibiotics

Or

- (b) Explain:

(i) Laxatives

(ii) Analgesics

20. (a) Explain the preparation method and uses of the following:

(i) Boot polish

(ii) Chalk crayons

Or

- (b) Discuss on the preparation method and uses of the following:

(i) Moth Balls

(ii) Agarbattis