Reg. No. :....

Code No. : 20297 E Sub. Code : JNCH 4 B/ SNCH 4 B

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Fourth Semester

Chemistry

Non-Major Elective — APPLIED CHEMISTRY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — $(10 \times 1 = 10 \text{ marks})$ Answer ALL questions. Choose the correct answer.

- 1. ______ salts are hard soaps.
 - (a) Potassium(b) Sodium(c) Carbonate(d) Calcium
- - (a) Surface active (b) Surface inactive
 - (c) Cationic (d) None of these

(6 pages)

- 3. Plants for their growth require ______ elements.
 - (a) 15 (b) 14
 - (c) 16 (d) 20

4. _____ fertilizers are prepared by mixing approximate amounts of ammonium, superphosphate and potassium salts.

- (a) Mixed (b) Organic
- (c) Micro (d) Inorganic
- 5. ______ is the richest source of cellulose.
 - (a) Jute (b) Cotton
 - (c) Rayan (d) Nylon
- 6. An example of thermosetting resin is _____.
 - (a) Styrene (b) Phenol
 - (c) Bakelite (d) Polyglycols
- 7. Penicillin is very effective against _____.
 - (a) diphtheria (b) burns
 - (c) pneumonia (d) rickets

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8.	is used as an analgesic.			
	(a)	Aspirin	(b)	Bigvanides
	(c)	Tolbutamide	(d)	Isophane
9.	In the manufacture of shoe polishes are the ingredients.			
	(a)	Cellulose	(b)	Waxes
	(c)	Graphite	(d)	Crayons
10.		without nanent inks.		are called semi-
	(a)	oleic acid	(b)	stearic acid
	(c)	tannic acid	(d)	all the above
PART B — $(5 \times 5 = 25 \text{ marks})$				
Answer ALL questions, choosing either (a) or (b).				

Answer should not exceed 250 words.

11. (a) What are hard and soft soaps?

Or

(b) What are the advantages of synthetic detergents?

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12. (a) What are the characteristics of a good fertilizer?

Or

- (b) Explain biofertilizers.
- 13. (a) Mention the uses of terylene and nylon. Or
 - (b) Explain the thermosetting plastics.
- 14. (a) Define antiseptics. Write any two therapeutic uses of alum.

Or

- (b) What are antacids? Explain with an example.
- 15. (a) Write short notes on agarbattis.

 \mathbf{Or}

(b) Explain gum paste.

PART C — $(5 \times 8 = 40 \text{ marks})$

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

Answer should not exceed 600 words.

16. (a) Discuss about the raw materials used in the manufacture of soap.

Or

(b) Give an account of cationic detergents.

Page 4 Code No. : 20297 E [P.T.O.] 17. (a) Explain the classification of fertilizers.

 \mathbf{Or}

- (b) Briefly explain the potash fertilizer.
- 18. (a) Write about the defects in natural rubber.

Or

- (b) Give the uses of the following terms :
 - (i) Glyptal (3)
 - (ii) Fevicol (3)
 - (iii) Quick Fix. (2)
- 19. (a) Define antibiotics. Give any three therapeutic uses of tetracyclines and penicillin.

Or

- (b) Explain the therapeutic uses of
 - (i) Aspirin (4)
 - (ii) Paracetamol. (4)
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- 20. (a) Write short notes on :
 - (i) Tooth paste (4)
 - (ii) Chalk Crayons. (4)

Or

(b) Give an account of the precautions to be taken in the preparation of shoe polish.

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