(6 pages)	
Reg. No. :	3. These are added to paint to reduce cracking.
Code No.: 20480 E Sub. Code: CECH 54	(a) Fillers(b) Thinners(c) Plasticizens(d) Pigments
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023. Fifth Semester	4 are used as antiskin agent in paints.(a) Triphenyl phosphase(b) Gypsum
Chemistry	(c) Silica
Major Elective — APPLIED CHEMISTRY	(d) Poly hydroxy phenol
(For those who joined in July 2021-2022)	5. 46% N ₂ is present in
Time: Three hours Maximum: 75 marks PART A — $(10 \times 1 = 10 \text{ marks})$	(a) Urea (b) Ammonium Nitrate
Answer ALL questions. Choose the correct answer:	(c) Ammonium Sulphate
1. Knocking can be prevented by adding	(d) NPK fertilizer
to petrol. (a) lead (b) ethanol	6. Which among the following is a phosphatic fertilizer?
(c) $Pb(C_2H_5)_4$ (d) propane	(a) Ammonium Sulphate
2 has good resistant to knocking and orbitarily given the value of 100.	(b) Calcium Cyanide (c) Super Phosphate
(a) Iso octane (b) n-heptane (c) Pentane (d) Iso butane	(d) Urea
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- 7. Glycerol is added to soap because it
 - (a) is a filler
 - (b) to increase leathering
 - (c) presents rapid drying
 - (d) to make soap granuls
- 8. An example of non ionic detergent is
 - (a) Polyethylene glycol stearate
 - (b) Sodium Lauryl Sulphate
 - (c) Sodium P-n- dodecyl Benzene sulphonate
 - (d) Cetyl trimethyl ammonium chloride
- 9. Which explosives are used for primarily mines and demolition explosive?
 - (a) TNT
 - (b) . Urea nitrate
 - (c) HMTD
 - (d) TATP
- 10. Which are mentioned below is one of the commercial explosives?
 - (a) HMTD
- (b) Dynamite

- (c) RDX
- (d) C4

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PART B — $(5 \times 5 = 25 \text{ marks})$

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

11. (a) What are the disadvantages of solid and liquid fuels?

Or

- (b) Write a note on high and low temperature carbonization.
- 12. (a) What are the primary constituent of paint?

Or

- (b) Write note on addition for lubricating oil.
- 13. (a) What are contact pesticides give example?

Or

- (b) Write a note on NPK fertilizer.
- 14. (a) Explain the process of manufacture of soap.

Or ·

- (b) Give the types of soap and their specific uses.
- 15. (a) Give the composition of match head.

Or

b) Write a note on setting of cement.

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[P.T.O.]

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

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

Each answer should not exceed 600 words.

16. (a) Explain any two gaseous fuel you have studied.

Or

- (b) Write a note on
 - (i) Thermal Cracking
 - (ii) Catalytic cracking.
- 17. (a) Write a note on Lubricants.

Or

- (b) Write the preparation and classification of adhesives.
- 18. (a) Write about two phosphatic fertilizers you have studied.

Or

- (b) Write a note on
 - (i) Bordeaux Mixture
 - (ii) Lime Sulphur

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19. (a) Explain the classification of Detergents with examples.

Or .

- (b) Write a note on
 - (i) Surface active agents
 - (ii) Cleaning action of Detergents.
- 20. (a) Write a note on refractory material.

Or

(b) Explain the manufacture of safety matches.

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