## **UG** 5<sup>th</sup> Semester Examination 2021

## **CHEMISTRY [HONOURS]**

**Course Code: HDSE-T-1B** 

Full Marks: 10

Answer any five questions

 $[2 \times 5 = 10]$ 

1. Discuss advanta	nges of fuel cells ove	r ordinary batteri	es.				
2. i) What is ceme	nt?						
ii) Which one amo	ong the following is	the chemical form	mula of gypsum which is				
an ingredient of ce	ement?						
a) Ca <sub>2</sub> SiO <sub>4</sub>	b) CaSO <sub>4</sub> .2H <sub>2</sub> O	c) CaO	d) CaSO <sub>4</sub> .3H <sub>2</sub> O				
3. Difference betw	veen Silicate and Nor	nsilicate Minerals	s.				
4. Define primary and secondary batteries or cell with example.							
5. Discuss the role	of nitrogen and pho	sphorus in the he	ealthy growth of plants.				
6. What are the es	sential qualities of a	good fertilizer? V	What are bio-fertilizers?				
7. i) To make the	steel hard requires in	ı <del>-</del>					
a) The quantity of	carbon	b) The qua	b) The quantity of manganese				
c) The quantity of silicon		d) The qua	d) The quantity of chromium				
ii) Which of the fo	ollowing elements is	added to iron to	produce steel which can				
resist high tempera	ature, have high hard	lness and abrasio	n resistance?				
a) Aluminium	b) Chromium	c) Nickel	d) Tungsten				