

SURENDRANATH COLLEGE
INTERNAL ASSESSMENT
SEMESTER-1, 2018-19
SUBJECT- CEMA
CC- 1

Time-

Full Marks- 10

CU Reg. No.	SECTION-	ROLL NO.-
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MARKS OBTAINED	Signature of Examiner- With date
MARKS CONVERTED TO 10	Approved by HOD- With date

Question Booklet

Q No.	Calculate the double bond equivalent (DBE) of C₃H₇N	Marks
1.		1

Answer	
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Q No.	Draw all the resonating structures of the following compound. Which one is more stable?	Marks
2.	$\text{H}_3\text{C}-\overset{\text{H}_2}{\text{C}}-\overset{\text{OEt}}{\underset{\oplus}{\text{C}}}-\text{NEt}_2$	1

Answer	
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Q No.	Why dipole moment of cyclopentadienone is less than cyclopentanone?	Marks
3.		1

Answer	
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Q No. 4.	Write one limitation of Arrhenius Theory.	Marks 1
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Answer	
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Q No. 5.	Li₃N is added to liq. NH₃- acidity increase or decrease?	Marks 1
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Answer	
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Q No. 6.	What is the oxidation state of 'S' in H₂S₂O₈?	Marks 1
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Answer	
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Q No. 7.	What is salt bridge?	Marks 1
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Answer	
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Q No. 8.	Why NaOH is not used for the separation of Gr-III A metals?	Marks 1
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Answer	
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Q No. 9.	Calculate the second ionization potential of Helium (I.P of H = 13.6 eV)	Marks 1
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Answer	
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Q No. 10.	Determine the ground state term of V^{3+}	Marks 1
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Answer	
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