

SURENDRANATH COLLEGE
INTERNAL ASSESSMENT
SEMESTER-1, 2018-19
SUBJECT- CEMA
CC- 2

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

QNo.1	<i>Calculate γ value for Acetylene.</i>	Mark 1
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Answer.	
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Q No2	<i>Draw the 1D, 2D and 3D energy distributions of say Nitrogen gas in a single graph indicating them property.</i>	Mark 1
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Answer.	
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Q No.3	Deduce the relation between Boyle temperature and Critical temperature of a gas.	Mark 1
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Answer.	
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Q No.4	What is turn over number?	Mark 1
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Answer.	
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QNo.5	For a reaction, the plot of $\log \frac{t_1}{2}$ vs $\log a$ turns out to be a straight line with positive slope and intercept, which makes an angle of 45° with the $\log a$ axis (terms have their usual Significance). What is the order of the reaction?	Mark 1
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Answer	
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QNo.6	Write down the definition of flux and its unit.	
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Answer	
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QNo.7	Write down the chapman equation for the viscosity coefficient of the gas and explain the terms used.	Mark 1

Answer		
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Q No. 8	Give the expression for the specific rotation of an optically active solid and liquid.	Mark 1
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Answer		
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Q No. 9	Draw the flying wedge projection formula of <i>meso</i> tartaric acid.	Mark 1
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Answer		
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Q No. 10	Define pseudo asymmetric carbon with an example	Mark 1
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Answer		
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