PHYSICS S.Y.B.Sc. (Sem. IV) (CBCS) Unit Test examination PAPER- 401 UNIT - 2 : ENTROPY & RADIATION DATE : TOTAL MARKS : 30 Instructions: All questions are compulsory. The right side figure indicates total marks of the question. Draw the figure wherever necessary. Write answers of all the questions in main answer sheets.	
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SECTION-A	
Q.1: One marks questions: [5 MARKS]	
1 In isothermal process entropy of the system remains	
2 Write the unit of Entropy.	
3 Write the formulla for stefen's law.	
4 What is the realtion of Wein's law.	
5 Whhat is the MKS unit of stefen's constant.	
SECTION – B	
Q.2 (A): Short Questions: Write all three : [2 Marks each] [6 MARKS]	
To calculate the change entropy when 50 gm of water at 100 °C converted into steam at same temperature .	
2 Describe the change of entropy in adiabatic process.	
3 Define : Kirchoff's law.	
Q.2 (B) : Short questions: Write all three: [3 Marks each] [9 MARKS]	
1 Explain the change in entropy in reversible process.	
2 Explain the wein's disaplacement law.	
3 Explain : Black body.	
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]	
1 Explain temperature - entropy (T-S) diagram in detail.	
2 Prove that wein's law rayleigh jean's law in relation to palnk's law.	
3 Descirbe entropy of a perfect gas , obtain the change in terms of T,V and T, P.	
4 Explain change in entropy in reversible and irreversible process.	