D.G.K Board 2017 (First Group)	
Roll No.(in Figures): (STJBDE OTO TO THE TIME Allowed :1.4:	
Maximum Marks: 48 (SUBJECTIVE TYPE) Time Allowed: 1.43	5 Hours
on filling Part I	
Q2. Write short was all FIVE (5) questions: (5)	×2=10)
(i) Define physical properties also give two examples.	
(ii) Differentiate between atom and Ion.	
(iii) Write down any two properties of neutron.	
(iv) State two observations in Rutherford's model.	
(v) Write down the electronic configuration of Magnesium.	
(vi) State the law of Octaves.	
(vii) Differentiate between period and Group.	
(viii) State the periodic law.	(0)
Q3. Write short answers to any rive (a) quoditano.	×2=10)
(i) What type of covalent bond is formed in CH ₄ ?	
(ii) Why does ice float on water?	
(iii) Give two characteristics of Ionic compounds.	
(iv) Define co-ordinate covalent bond with one example.	1
 (vi) Define diffusion with an example. (vii) Define Allotropy with an example. (viii) Why liquids are mobile? (viii) How meat is preserved? 	
(vi) Define Allotropy with an example.	
(vii) Why liquids are mobile?	
(5)	×2=10)
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(ii) What type of solution butter and smoke are?	
(iii) Define oxidation and reduction in the term of loss or gain of electron.	
(iv) What is the difference between anode and cathode?	
(v) Calculate the oxidatin number of sulpher in CaSO ₄ .	
(vi) What is the relationship between electropositivity and ionization energy?	
(vii) In what conditions H ₂ react with I ₂ ? Give equation of the reaction.	
(viii) Write any two uses of silver.	
PART - II	
)×2=18)
Hote. Attempt any 1440 quantons.	
Q5. (a) What is chemistry? Describe any four branches of chemistry.	5
(b) Describe Rutherford's Experiment with the help of diagram.	4
Q6. (a) What is co-ordinate covalent bond. Explain with equation the formations of amonium	radicals
$[NH_4]$ and $[NH_3BF_3]$	5
(b) Explain the Amorphous and crystalline solids. Give at least two examples for each.	4
Q7. (a) Give the five characteristics of colloid.	5
(b) Discuss the electrolysis of water.	4