D.G.K Board 2017 (Second Group)

Roll No.(in Figures): ..... (in Words): .....

Maximum Marks: 48 (SUBJECTIVE TYPE) Time Allowed :1.45 Hours

PART - I

Q2. Write short answers to any FIVE (5) questions: (5×2=10)

(i) Give the scope of biochemistry.

(ii) Define empirical formula with an example.

(iii) Give four characteristics of cathode rays.

(iv) For what purpose U-235 is used?

(v) Give two properties of positive rays.

(vi) Give the trend of ionization energy in a period.

(vii) State Mendeleev's periodic law.

(viii) Define effective nuclear charge.

Q3. Write short answers to any FIVE (5) questions: (5×2=10)

(i) Why has water polar covalent bond?

(ii) What is a triple covalent bond? Give an example.

(iii) What is Epoxy? Also write its use.

(iv) Why the ionic compounds have high melting and boiling points?

(v) Why the rate of diffusion of gases is rapid than that of liquids?

(vi) What do you mean by pascal? How many Pascals are equal to 1 atm.

(vii) Conver - 30°C to Kelvin.

(viii) Why drops of rain fall downward in the air?

Q4. Write short answers to any FIVE (5) questions: (5×2=10)

(i) What is the difference between solution and aqueous solution?

(ii) What is tyndall effect?

(iii) Define oxidizing agent and give example.

(iv) Define electrochemical cell and give its types.

(v) What is corrosion? Give example.

(vi) What is the trend of electropositivity in a peiod?

(vii) Write down two uses of magnesium.

(viii) Why Nitrogen is necessary for safety of life on earth?

PART - II

Note: Attempt any TWO questions. (9×2=18)

Q5. (a) How chemical formula is written? 5

(b) Write four properties of canal rays. 4

Q6. (a) State the covalent bond? Explain types of covalent bond by giving one example for each 5

(b) Describe factors on which diffusion of liquid depends. 4

Q7. (a) Give five characteristics of suspension. 5

(b) Describe any four rules for assigning oxidation state. 4

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