

# Engineering chemistry (2016)

Q1. Choose correct answer:

- (i) Isotones having same numbers of  
(a) Electrons (b) Protons  
(c) Neutrons (d) Masses

Ans. (c)

- (ii) Atomic No. and mass number of oxygen is  
(a) 7, 16 (b) 8, 16 (c) 6, 12 (d) 7, 14

Ans. (b)

- (iii) The laws of Electrolysis were enunciated by  
(a) Dalton (b) Faraday  
(c) Kakuic (d) Avagadro

Ans. (b)

- (iv) One Faraday is equal to  
(a) 69,500 Coloumb (b) 96,500 Coloumb  
(c) 95,600 Coloumb (d) 73,500 Coloumb

Ans. (b)

- (v) Substance react with gauge to give mobile fusible Product is called \_\_\_\_\_  
(a) Flux (b) Catalyst (c) Slag (d) Ore

Ans. (c)

- (vi) Bell Metal is a alloy of \_\_\_\_\_  
(a) Gold (b) Platinum (c) Silver (d) Copper

Ans. (d)

- (vii) Vulcanisation discovered by \_\_\_\_\_  
(a) CEAT (b) Good year (c) Dunlop (d) Mofel

Ans. (b)

- (viii) Atmospheric temperature rising with the rate of  
(a)  $0.5^{\circ}\text{C}$  per year (b)  $0.5^{\circ}\text{C}$  per month  
(c)  $0.05^{\circ}\text{C}$  per year (d)  $0.05^{\circ}\text{C}$  per month

Ans. (a)

- (ix) Which part of the body is effected by Particulate?  
(a) Hair (b) Skin (c) Lungs (d) Bone

Ans. (c)

- (x) e-waste is because of \_\_\_\_\_  
(a) Domestic waste (b) Industrial waste  
(c) Electronic waste (d) Water pollution

Ans. (c)

Q2. (a) Differentiate between Electrovalent and covalent bonds and compound.  
Ans. Refers to chapter 1

Q2. (b) Write electronic configuration of the atoms from 1 to 30 atomic numbers with respect to Inert gas symbol.  
Ans. Refers to chapter 1

Q3. (a) What is Arrhenius theory of ionisation and Degree of Ionisation?  
Ans. Refers to chapter 5

Q3. (b) Explain concept of Reduction potential and Oxidation potential.  
Ans. Refers to chapter 5

Q4. (a) Explain pollution and types of pollution.  
Ans. Refers to chapter 7

Q4. (b) Ennumerates causes and control of pollution.  
Ans. Refers to chapter 7

Q5. (a) Write important ores of Iron. How cast iron is extracted from it and reactions involved in various steps of extraction.  
Ans. Out of Syllabus

Q5. (b) Explain and differentiate thermoset and thermoplast.  
Ans. Refers to chapter 6

OR

Q5. Write short notes on any two:

- (a) Synthetic Rubber  
(b) Bakelite and Polythene  
(c) Green House effect  
(d) Metallurgy

Ans. (a) Synthetic Rubber: Refers to chapter 6

Ans. (b) Bakelite: Refers to chapter 6

Ans. (c) Green house effect: Refers to chapter 7

Ans. (d) Metallurgy: Out of Syllabus