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188414

Roll No.

Level - 3, 1st Sem./ DVOC (Ref. & Air Cond., Medical Imaging Tech, Auto. Servicing, ITM, PT, SD, AMT, FP, EMS)

Subject : Applied Chemistry

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short questions. Attempt all ten questions.

(10x1=10)

Q.1 Shape of P orbit is _____

Q.2 Principle Quantum number is denoted by symbol _____.

Q.3 Write down the electronic configuration of Carbon (Atomic No-6)

Q.4 Give the significance of Azimuthal Quantum number.

Q.5 Give an example of covalent bond

Q.6 Give an example of Solid fuel

Q.7 Define Hard water

Q.8 Reduction involves _____ of electrons

Q.9 Name the monomer of polythene

Q.10 Write down the one use of PVC

SECTION-B

Note: Short answer type questions. Attempt any Six questions out of eight questions. (6x5=30)

Q.11 Define Atomic number and Mass number Write the Atomic number and mass number of Oxygen.

Q.12 Write down the types of fuel according to their physical state with one example in each case.

Q.13 Differentiate between Soft Water and Hard Water

Q.14 Write a short note on Cathodic Protection of metals for prevention of corrosion

Q.15 Define Ionic bonding and explain it with the help of an example

Q.16 Write down five uses of fuel in our daily life.

Q.17 Define pH. How to determine PH by colorific method.

Q.18 Define plastics. How are they useful in our daily lives?

SECTION-C

Note: Long answer questions. Attempt any one question out of two questions. (1x10=10)

Q.19 Name the four quantum number along with the symbols used to denote them. Write in short about all the four quantum numbers.

Q.20 (i) Define Hardness of Water. Explain different types of Hardness of Water

(ii) Write down the characteristics of a good fuel