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Total Number of Pages: 2

B.Tech
BSCC1208

3RD Semester Back Examination 2016-17

CHEMISTRY - II

BRANCH: CHEM, TEXTILE

Time: 3 Hours

Max Marks: 70

Q.CODE: Y634

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

Q1 Answer the following questions: (2 x 10)

- Why water soften by zeolite process is unfit for boiler?
- What do you mean by Equivalent of CaCO_3 ? Why it is used for expressing hardness of water?
- What do you mean by B.O.D?
- What do you mean by Power alcohol?
- Why carbonate conditioning is not suitable for High pressure boiler?
- What do you mean by water gas?
- What do you mean by Photo chemical smog?
- Write down Pilling –Bed worth rule
- What are repeating unit of nylon-6 and nylon -66?
- Iron corrodes faster than aluminum even though iron placed below aluminum in electrochemical series?

Q2 What do you mean by softening of water? How it is carried out by zeolite process? What are limitation of process (2+8)

Q3 a) Calculate the G.C.V and N.C.V of coal sample having the following composition . C=80% H₂=7% O₂=4% ,S=3.5%
N₂=4.1% and Ash =6.4% (5)

b) What do you mean by the Boiler corrosion What are factor responsible for it how it can be eliminated (5)

Q4 a) What do you mean by “Green house effect”? Give two example of Green house gases (5)

b) What do you mean by sterilization of water? How it is carried out by Bleaching powder? (5)

Q5 What do you mean by addition polymerization and condensation polymerization process .Explain with example **(10)**

Q6 a) What do you mean by the corrosion ?Discuss various factor that affect the corrosion **(5)**

b) What do you mean by the Battery ?Discuss the it characteristic properties **(5)**

Q7 What do you mean by cracking ?Discuss Thermal cracking with mechanism .What is advantage of catalytic cracking over thermal cracking **(10)**

Q8 Write short answer on any TWO: **(5 x 2)**

a) cathodic protection..

b) Bakelite

c) Acid rain