

Process Engineering Section

2ND Semester English Catch up Exam

Answer these questions.

01-In no more than 5 lines, speak about limestone. (4pts)

02-In no more than 5 lines, speak about carbon (4pts)

03-Explain the pretreatment stage of sewage.(4pts)

04-Mention and explain the phases of secondary treatment.(4pts)

05-Name the different sources of sewage.(4pts)

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01 Limestone is a sedimentary rock composed of minerals, calcite and aragonite, it is composed from skeletal fragments of marine organisms, it has a weak solubility. It is used as building material, toothpaste or paints. It can exhibit different colors. It was distinguished in 1778. (04pts)

02 Carbon is a chemical element with the symbol C, it has atomic mass 12 and atomic number 6, it is non metallic it has strong bonds with itself each carbon atom forms 4 covalent bonds it is found in three forms called Allotropes it is found in fuels like Methane and Propane. It is also used to precise the age of objects. (04pts)

03 The pretreatment removes the materials that can be easily collected from the raw sewage before they damage the pumps and the lines of the sewage plant. (04pts)

04 Secondary treatment phases: (05pts)

- a) Attached growth a system where the biomass grows on media the sewage passes over it.
- b) Suspended growth a system where the biomass is mixed with the sewage it provides high removal of organic material.
- c) Activated sludge a process that use dissolved oxygen to promote the growth of biological floc that removes organic materials.

05 The different sources of sewage : (03pts)

- 1) Household waste.
- 2) Sanitary sewage.
- 3) Storm water.