

G.R. No.

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paper code: U239-112 (T1)

OCTOBER/ 2019/ INSEM (T1)

S. Y. B.TECH. (Civil) (SEMESTER – III)

COURSE NAME: Biology for engineers.**COURSE CODE : ES21182CV****(PATTERN 2018)**

Time: [1 Hour]

[Max. Marks: 20]

(*) Instructions to candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed.
- 4) Assume suitable data where ever required.

Q1) Attempt any one

a) Explain eukaryotes and prokaryotes bacteria cell structure with figure in detailed. [8]

b) Explain fungi and algae cell structure in detailed with figure. [8]

Q2) Attempt any one

a) What is sterilization and explain need of sterilization? [8]

b) What is ATP? Explain in detailed. [8]

Q3) Attempt any one

a) What are physical, chemical and biological characteristics of waste water [4]

b) Explain oxygen sag curve with different zones and figure. [4]