T.Y.B.SC. SEM – V (2014 Course) : WINTER - 2018

SUBJECT: CHEMISTRY OPTIONAL : a) ENVIRONMENT CHEMISTRY – V

Day: Saturday
Date: 20/10/2018

W-2018-0853

Time: 12.00 NOON TO 02.00 PM
Max. Marks: 40

N.B:

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.

SECTION - I

Q.1 Answer any **TWO** of the following **(10)**

a) What is E1 Nino? How does it affect the global climate.

b) What are humic substances? Explain the role of humic substances in aquatic environment.

c) Which are the major developments in evolution of the atmosphere of our earth? Describe there developments.

Q.2 Answer any **TWO** of the following **(10)**

a) Give an account of Inorganic particulate matter and show its differences from organic particulate matter.

b) What do you mean by a term 'Smog'? How does photochemistry play a role in formation of photochemical Smog?

c) Write a note on Iron and manganese bacteria in water bodies.

SECTION - II

Q.3 Answer any **TWO** of the following **(10)**

a) Discuss the chemistry of Bhopal disaster.

b) How do you control CO emission in air.

c) Describe the method for the estimation of ammonia in water bodies.

Q.4 Answer any **TWO** of the following **(10)**

a) Give an account of oil spill and marine pollution.

b) Draw a neat diagram of Urey and Millar experiment. Describe the experiment in detail with respect to primitive earth atmosphere.

c) Explain the following terms:

i) Entrophication
ii) Chemical speciation
iii) BOD
iv) COD
v) Thermal pollution

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