Registration No: | | | | | | | | | | |

Total Number of Pages: 01 **M.Arch**

MAR103

1st Semester Regular Examination 2017-18

Ecology

BRANCH:M.ARCH

Time: 3 Hours

Max Marks: 70

Q.CODE: B915

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: write short notes on: **(2 x 10)**

a) What is EIA?
b) Describe the components of environment.
c) Where do the treated unused wastewaters be disposed?
d) Define troposphere and lithosphere?
e) What are the types of material cycle that are vital for survival of ecosystem?
f) What do MoEF, WHO, IGBC & TERI stand for?
g) What are the functional attributes of ecosystem?
h) What is sustainable architecture?
i) What is the purpose of EMP?
j) What are the different categories to score points in the rating of IGBC homes?

Q2 Describe:

a) The EIA process in detail. **(5)**
b) The difference between EIA and SEA **(5)**

Q3 Describe:

a) Water pollution, the categories of sources of water pollution. **(5)**
b) Ground water pollution its causes; pathogens and its causes. **(5)**

Q4 Describe:

a) The main air pollutants, their respective sources and corresponding human health effects. **(5)**
b) Explain Criteria air pollutant, air toxics and biological pollutant. **(5)**

Q5 Describe in brief the rating by TERI in:

a) A sample building in composite climate. **(5)**
b) TERI office building-cum-guest house, Bangalore. **(5)**

Q6 Describe:

a) Types of niche **(5)**
b) Environmental stress **(5)**

Q7 Describe the performance of the following Energy efficiency category in IGBC homes rating.

a) Minimum energy **(10)**
b) Enhanced energy

Q8 **Answer any TWO from the following:** **(5 x 2)**

a) Describe the components of a biosphere
b) Describe basic ecosystem functioning
c) Describe the causes of air pollution and its effect
d) Describe Nitrogen cycle with neat diagram