Total No. of printed pages = 5

3 (Sem 3) GGY M1

2015 anterior (in)

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GEOGRAPHY

(Major)

Paper: 3.1

(Soil and Biogeography)

Full Marks - 60

Time - Three hours

The figures in the margin indicate full marks for the questions.

- 1. Answer the following by choosing the most appropriate option given against each question:

 1×7=7
 - (a) What is the most important determinant of soil colour?
 - (i) Parent material
- (ii) Chemical modifications
 - (iii) Amount of humous 15 401
- (iv) Amount of manure used

[Turn over

- (b) The plants growing in water are called (i) hygrophytes (ii) hydrophytes (iii) xerophytes
 - (iv) mesophytes
 - (c) Which among the following is a characteristic of evergreen forest?
 - (i) The trees never shed their leaves
 - (ii) All trees do not shed leaves simultaneously
 - (iii) When trees are leafless grasses remain for the questions near
 - (iv) All of the above
 - (d) What is illuviation?
- (i) frequent tilling of soils
 - (ii) removal of soluble minerals from the top soil layers lacroters trong (i)
 - (iii) deposition of soluble minerals in the lower layers to month (iii)
 - (iv) use of high doses of chemical fertilizers.

(2)

- (e) Which one is supposed to be the most stable environment?
 - (i) Tropical rainforest
 - (ii) Temperate grasslands
 - (iii) Hilly regions
 - (iv) Deep sea regions
- (f) Which forms the first trophic level in any ecosystem?
 - (i) Herbivores
 - (ii) Plants
 - (iii) Carnivores
- (g) Which one of the following is a biodiversity hot spot ?
 - (i) Tropical forest region
 - (ii) Temperate forest region
 - (iii) Equatorial forest region
 - (iv) Polar region Himsonic with some

2. Answer the following questions very briefly: 2×4=8

(a) Define antotrophs.

- (b) What is calcification?
- (c) What is ecological succession?
- (d) What are the macro-nutrients in the ecosystem?
- 3. Write short notes on any *three* of the following: $5\times 3=15$
 - (a) Biomass
 - (b) Soil texture
 - (c) Biome
 - (d) Histosols
 - (e) Endangered species
- 4. (a) Describe various soil types and their associated properties.

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Or

(b) Describe the soil forming processes highlighting the characteristics of soil profiles.

10

5. (a) What are the impacts of human activities on environment? Illustrate with some local examples.

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Or

(b) Give a comprehensive idea on the distribution and characteristics of plants in the world.

10

6. (a) What is biosphere? Describe the processes of interaction among various components in it. 3+7=10

Or

(b) Highlight the major conservational issues of the biodiversity in Assam. 10