

2020

6th SEMESTER

GEOGRAPHY (HONOURS)

PAPER: DSE 4(A)

Full Mark: 40

Time: 2 Hours

HYDROLOGY

A. Answer any five questions:

1x5 = 5

- (a) What is the percentage of sweet water in the world?
- (b) What do you mean by direct runoff?
- (c) In which year who propounded the concept of Karst erosion?
- (d) What is Vados water?
- (e) What is leaching Method?
- (f) What do you mean by Aquitard?
- (g) What is Juvenile water?
- (h) By which instrument the velocity of runoff can be measured?

B. Answer any five questions:

2x5 = 10

- (a) What are the favourable conditions of Karst cycle?
- (b) Write down any two significance of ground water?
- (c) Define Perched Aquifer?
- (d) What are the differences between Porosity and Permeability?
- (e) What do you mean by zone of saturation?
- (f) How does slope and vegetation affect of on infiltration?

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(g) What are the components of Hydrosphere?

(h) What is potential Evapotranspiration?

C. Answer any three questions :  $3 \times 5 = 15$

(a) Write down the controlling factors of Evaporation?

(b) Discuss the scope and content of Hydrology?

(c) What are the differences between confined aquifer and un-confined aquifer?

(d) Describe the implication of Global Hydrological cycle?

(e) Describe Karst cycle?

D. Answer any one question :  $1 \times 10 = 10$

(a) Explain the controlling factors of run off and run off cycle?

(b) What are the major sources of Ground water? Discuss the factors affecting ground water movement?  $5 + 5 = 10$

(c) Briefly discuss Global Hydrological cycle?

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