

19P354

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS-PG)

CC19P GEL3 E01a - CLIMATOLOGY

(Applied Geology)

(2019 Admission Regular)

Time : Three Hours

Maximum : 30 Weightage

I. Short answer type questions. Answer any **four** questions. Each question carries 2 weightage.

1. What is Dew Point?
2. Comment on the formation of polar jet streams.
3. Elucidate how are tropical cyclones formed.
4. Why all clouds do not cause precipitation?
5. Discuss the effect of friction on wind movement.
6. State the ellipticity of earth's orbit around the sun.
7. What are geostrophic winds?

(4 x 2 = 8 Weightage)

II. Short essay questions. Answer any **four** questions. Each question carries 3 weightage.

8. Describe the ionosphere. Explain the factors affecting escape velocity of a gas.
9. Discuss the formation of Ferrel circulation.
10. Differentiate between thermally direct and indirect circulation cells.
11. Explain insolation.
12. Types of Fronts.
13. Discuss any two types of fog and their genesis.
14. Assess the driving mechanism of jet streams.

(4 x 3 = 12 Weightage)

III. Long essay. Answer any **two** questions. Each question carries 5 weightage.

15. Examine the formation of ozone in the atmosphere. Appraise the effect of ozone in troposphere and stratosphere.
16. Elucidate the formation of ITCZ and global belts of high and low pressure.
17. Analyse the conditions that give rise to any two types of fog. Differentiate between wet adiabatic and environmental lapse rates.
18. Explain classification of Climate.

(2 x 5 = 10 Weightage)
