RAMAKRISHNA SARADA MISSION VIVEKANANDA VIDYABHAVAN

GEOGRAPHY HONOURS\_SEMESTER - III

INTERNAL EXAMINATION : CC5 (CLIMATOLOGY)

FULL MARKS – 40

TIME – 2 Hours

DATE –20.12.2022

A. Answer any one of the following questions : 1x10=10

1. What are the controlling factors behind the differentiation in insolation rate? Explain the characteristics of the stratosphere. What is the importance of dust particles in the atmosphere? 5+3+2 (KD)

2. Briefly explain the formation of temperate cyclones in the context of Polar Front Theory with suitable diagrams. Discuss the favourable conditions for the development of a tropical cyclone. 6+4 (AP)

B. Answer any four of the following questions : 4x5=20

3. Briefly discuss different forms of precipitation. (ND)

4. How raindrops are formed according to collision-coalescence theory? (ND)

5. Why is the temperature of the earth gradually increasing? (AP)

6. State how the global heat balance is achieved ? (KD)

7. Identify major Jet streams and mention their characteristics. 1+4 (SM)

8. Explain the different phases of the Index cycle. (SM)

C. Answer any five of the following questions : 5x2=10

9. What is the importance of inversion of temperature? (SM)

10. Why are most of the deserts formed in the western part of the continents? (SM)

11. What is ‘MONEX’? (SM)

12. What do you mean by condensation? (ND)

13. Mention the prerequisites for the development of rain drops according to “Ice-crystal theory”? (ND)

14. Name the different hygroscopic nuclei of the atmosphere. (ND)

15. What were the decisions taken in the Montreal Protocol for the conservation of the ozone layer? (AP)

16. What is ‘Aurora’? (KD)