	Sanjay Ghodawat University, Kolhapur Established as State Private University under Govt. of Maharashtra. Act No XL, 2017	**2020-21** EXM/P/09/00

B.Sc. II	**School of Science**	**Department: Physics**
PHS 204	**Weather Forecasting**	**Semester : IV**
	End Semester Examination	**Time:2 Hrs.** **Max Marks:50**

Instructions: 1) All Questions are compulsory.

		Marks	BL	CO
Q.1	**Answer / Solve the following**			
a)	i) List different gases and their percentage in Earth's atmosphere. ii)What is temperature sensor? Describe contact and non-contact temperature sensors.	8	L1	CO1
b)	i) Explain Rayleigh and Mie scattering in Earth's atmosphere. ii) Explain the radiation laws.	8	L2	CO2
	OR			
b)	Describe the variation of temperature and pressure with respect to height.	8	L2	CO2
Q.2	**Answer / Solve the following**			
a)	What is wind? Explain the various forces responsible to produce wind.	8	L2	CO3
b)	i) What is a cloud? List different forms of clouds. ii) Explain the causes and effect of global warming.	8	L1	CO3
	OR			
b)	Define jet stream. Explain the types of jet streams.	8	L1	CO3
Q.3	**Answer / Solve the following**			
a)	i) Classify weather forecasting depending upon duration. ii) Illustrate the weather forecasting methods.	9	L2	CO4
b)	What is the criterion for choosing a weather station?	9	L1	CO4
	OR			
b)	What are the different satellite observations in weather forecasting?	9	L1	CO4

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