Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA

SEMESTER END THEORY EXAMINATION

B. Sc (Hons.) Horticulture

Semester	**:**	I (New)	**Term**	**:**	I	**Academic Year**	**:**	**2020-2021**
Course No	**:**	H/AGROMET-111	**Title**	**:**	**Agro-meteorology and Climate Change**			
Credits		2 (1+1)						
Day & Date	**:**	**17/07/2021,Saturday**	**Time**	**:**	12.00-1.00	**Total marks**	:	40

Note:	1. Solve **ANY FOUR** questions from **SECTION "A".** 2. Solve **ANY SIX** questions from **SECTION "B".** 3.All questions from **SECTION "C"** are compulsory. 4. Send the PDF file of answer sheet to the email id of respective course teacher

SECTION "A"

(Write the answers in 4-5 sentences only. Each question carries 4 marks)

Q.1 Define agrometeorology and explain in short, its role in agriculture.

Q.2 Define temperature. Elaborate in short physical structure of the atmosphere.

Q.3 Define radiation. Write in short, the importance of radiation in crop production.

Q.4 Define precipitation and elaborate in short, the forms of precipitation

Q.5 Define wind. Write short note on cyclone and anticyclone

SECTION "B"

(Write the answers in one sentence only. Each question carries 2 marks)

Q.6 **Define**

a) Aerosols
b) Evapotranspiration
c) Weather
d) Relative humidity
e) Weather forecasting
f) Atmospheric pressure
g) Pollution

SECTION "C"

Q.7 **Choose the correct option. (Each question carry 1 marks)**

1) Line joining the places of equal rainfall

a) Isotach b) Isotherm c) Isohyet d) Isobar

2) The atmospheric gas which acts as shield for UV radiation

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a)Oxygen b) Ozone c) CO2 d) Nitrogen

3) The process by which water vapour directly converts into solid state is termed as……

a) Evaporation b) Sublimation c) Condensation d) Transpiration

4) Agriculture drought occurs when

a) Rainfall < 75% of the normal b) Rainfall < 25% of the normal

c) Rainfall < 50% of the normal d) Soil moisture fall short to meet crop water demand

5) Medium range forecast valid for …… period

a)Less than 3 days b) 3 to 10 daysc) More than 10 days d) None of these

6) The major parts of India receive rainfall from

a) NW monsoon b) SW monsoon c) NE monsoon d) SE monsoon

7) The value of dry adiabatic lapse rate is

a) 6.5 ^{0}C km^{-1} b) 7.5 ^{0}C km^{-1} c) 8.5^{0}C km^{-1} d) 9.8^{0}C km^{-1}

8) Example of C4 plants

a) Riceb) Wheatc) Sorghum d) Barley

9) The decrease in temperature with height is called

a) Lapse rate b) Inversion c) Potential temperature d) Unstable

10) Atmospheric pressure at mean sea level is ……. Mb

a) 1012.325 b) 1013.325 c) 1014.325 d) 1015.325

11) Identify the vertical and heavy rain making cloud

a) Cumulonimbus b) Cirrus cumulus c) Alto-stratus d) Cirrus

12) Maximum or minimum soil temperature takes time to reach lower depths. This delay is known as..

a) Inversion b) Thermal lag c) Diversion d) Diffusivity

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