Total No. of Pages: 1
EIGHTH SEMESTER

Roll No.

B.Tech. [E P]

MID SEMESTER EXAMINATION

(March- 2019)

EP414 Space and Atmospheric Science-II

11116. 1.30 110413	ax. Marks: 25
Note: Answer all the questions Assume suitable missing data, if any.	
1. Describe showt atmospheric composition. Write in	detail about
1. Describe about atmospheric composition. Write in	(5)
constant and variable gases.	, ,
2. Discuss in detail about the formation and effects of	
Ozone. Describe its adverse effects along with	
mechanism.	(5)
3. (a). Derive the expression for the virtual temperature	. Should the
virtual temperature be higher or lower than the actual	temperature.
(2.5)	
(b). Calculate the virtual temperature correction of mois	st air at 30°C
having a mixing ratio of 20 g/Kg.	(2.5)
4. (a). If the scale height of the atmosphere may be taken a	as 8 km, then
calculate the geopotential height of 1000 hpa pressure s	surface when
the pressure at sea level is 1014 hpa.	(2.5)
(b). Derive the fundamental equation of thickness in	atmospheric
science.	(2.5)
5. (a). Define geopotential. State whether it is a point fun	ction or state
function.	(2.5)
(b). Give the expression of geopotential thickness	between two
pressure ρ_1 and ρ_2 level with detailed steps	(2.5)
END	()
ATE TOTAL	