



RA-0750

Second Year B. Sc. Examination
March / April – 2010
Environmental Physics

Time : $1\frac{1}{2}$ Hours]

[Total Marks : 35

Instructions :

(1)

नीचे दशांशवैध निशान्चीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="S. Y. B. Sc."/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Environmental Physics"/>	<input type="text"/>
Subject Code No. : <input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="5"/> <input type="text" value="0"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	<input type="text"/>
Student's Signature	

- (2) Q.1 is compulsory.
(3) Symbols have their usual meaning.
(4) Assume data if required.
(5) Draw neat diagram to support your answer.

- 1 (i) What is skin friction? 10
(ii) Define viscosity.
(iii) What are the black body characteristics of clean snow ?
(iv) Reynold number
(v) What is Fliks law?
- 2 (a) Explain the transfer of momentum from moving air to stationary surface. Discuss the related forces. 7
(b) Describe the development of laminar and turbulent boundary layers over a smooth flat plate immersed in a moving fluid. 6

OR

- 2 (a) Describe Beer's Law for attenuation of a parallel rays of radiation. 5
(b) Describe the transfer of heat from still warm air to cool surface. 8
- 3 Write short notes : (any two) 12
(i) Boundary layers (ii) Solar declination
(iii) Drag on leaves (iv) Direct solar radiation
(v) Brownian motion.