

M.Sc. 1st Semester Examination, 2011

REMOTE SENSING AND GIS

PAPER – RSG-106

( Practical )

*Full Marks : 25*

*Time : 2 hours*

Answer **all** questions

*The figures in the right-hand margin indicate marks*

1. Prepare a map showing four distinct physiographic/cultural features using a tracing sheet by observation of the given aerial photo stereo-pair under a mirror stereoscope and compute the area under natural vegetation /agricultural land (any *one*) and total length of roads /streams (any *one*) assuming the scale of the photograph 1 : 18,000, and interpret the map. 6 + 6 + 3

( Turn Over )

2. Assume that the radial distance ( $r_a$ ) to a point  $A$  is 63.84 mm and the radial distance ( $r_b$ ) to a point  $B$  is 62.65 mm. Flying height  $H$  is 1300 m above datum, point  $A$  is 152 m above datum and point  $B$  is 168 m below datum. Draw a neat diagram and find out the radial distance and direction one must lay off from point 'a' and 'b' to plot them in proper location. 5
3. Laboratory notebook and Viva-voce. 5