PG/IIIS/RSG-305/18(Pr.)

M.Sc. 3rd Semester Examination, 2018

REMOTE SENSING AND GIS

(Application of Geo-Informatics and Spatial Decision Support System)

(Practical)

PAPER –RSG-305

Full Marks : 25

Time : 2 hours

Answer **all** questions

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Compute the runoff from a single storm of 37 cm in the given watershed, using SCS-runoff-Curve Number (CN) method. The soil is considered to be homogenous and CN values for individual landuse are given below :

(*Turn Over*)

Land use	*CN*
Cultivated land	72
Agricultural fallow	76
Wet valleys	95
Dry fallow	77
Settlement	77
Deme forest	30
Open forest	36
Water body	98

10

2. Prepare a ground water potential zone map from the given soft copy imagery and maps of specified region, with weighted sum overlay analysis. 10

3. Laboratory note book and viva-voce. 5

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REMOTE SENSING AND GIS

(*Geostatistics*)

(Practical)

PAPER – RSG-307

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Time : 2 hours

Answer all questions

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1. Create a surface using supplied data using suitable interpolation method and validate the result in the methodological point. 6 + 4

2. With the given data perform linear and second order polynomial regression. 10