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Name of Examination (Please tick, symbol is given)	:	MID		END	✓	SUPPLE			
Name of the College (Please tick, symbol is given)	:	COES	✓	CMES		COLS			
Program/Course	:	B. Tech GIE							
Semester	:	VIII							
Name of the Subject	:	Applications of Geo-informatics II							
Subject Code	:	GIEG 402							
Name of Question Paper Setter	:	Dr. Sudip Kumar Saha							
Employee Code	:	40001590							
Mobile & Extension	:	9897128879 &							
Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":									
FOR SRE DEPARTMENT									
Date of Examination			:						
Time of Examination			:						
No. of Copies (for Print)			:						

Note: - Pl. start your question paper from next page

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End Semester Examination, April, 2017

Program/course: B. Tech GIE

Subject: Applications of Geo-informatics II

Code : GIEG 402

Semester -VII

Max. Marks : 100

Duration : 3 Hrs

No. of page/s: 2

Section -A							
An	swer all Questions	(4x5=20)					
1.	Define rationalized variable and it is used Geo-statistics	[5]					
2.	Give empirical formula of spatial semi-variance	[5]					
3.	Define DEM derived topographic wetness and stream power indices verelationships	vith empirical [5]					
4.	Advantages and disadvantages of server side Web GIS	[5]					
<u>Section –B</u>							
An	swer all Questions	(5X12 = 60)					
5.	Write the mathematical models of Spherical, Exponential & Gausian semi-explain with graphical diagrams	variogram and [12]					
6.	(a) Write short note on Co-kriging method of geo-statistical interpolation	[6]					
	(b) List various uses of DEM in natural resources inventory and geo-exploration	n [6]					
7.	Discuss in details major characteristics of internet (web) GIS	[12]					
8.	Discuss various aspect of web GIS data interoperability	[12]					
9.	Give an account of use of DEM in terrain visualization and 3D GIS	[12]					

Section -C

Answer all Questions

(1X20 = 20)

10. Discuss with a case example integrated GIS based analysis for mineral exploration using satellite derived inputs and geochemical & geophysical survey data [20]

OR

Discuss with a case example – computation of geo-statistical semivariogram with ore chemical assay data collected with geo-statistical sampling method [20]