BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: M.Sc.   SEMESTER : I
BRANCH: GEOINFORMATICS   SESSION : MO/18

SUBJECT: GI503 DIGITAL CARTOGRAPHY AND GPS

TIME: 3 HOURS   FULL MARKS: 50

INSTRUCTIONS:
1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a)	GIS is nothing but Geography in its new version - Comment.	[5]
Q.1(b)	Mention conditions where conical projection is applied. Also give its properties.	[5]
Q.2(a)	What are non-Spatial Data? Explain with examples.	[5]
Q.2(b)	How can satellite remote sensing be used as a data base for Cartography? Comment.	[5]
Q.3(a)	What are Bertin's Variables? Explain with examples.	[5]
Q.3(b)	What is RGB color Cube? Illustrate.	[5]
Q.4(a)	Explain NAVSTAR GPS satellite signals transmission.	[5]
Q.4(b)	How high accuracy (<cm) is achievable in satellite-based positioning system? Explain.	[5]
Q.5(a)	What is DOP? Explain the influence of satellite geometry on positioning accuracy.	[5]
Q.5(b)	What are types of datum? Illustrate with a diagram coordinates of a point in WGS-84 coordinate system.	[5]

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