



COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Government of Maharashtra.)
SHIVAJI NAGAR, PUNE - 411 005

END Semester Examination

(BP-309) Geo-Informatics for Planning

Course: B.Tech

Branch: Planning

Semester: Sem V

Year: 2014-2015

Max.Marks:60

Duration: 3 Hours Time:- 2-5 pm

Date:29 November
2014

Instructions:

MIS No.

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1. Figures to the right indicate the full marks.
2. Mobile phones and programmable calculators are strictly prohibited.
3. Writing anything on question paper is not allowed.
4. Exchange/Sharing of anything like stationery, calculator is not allowed.
5. Assume suitable data if necessary.
6. Write your MIS Number on Question Paper

Q.1 Define Remote Sensing? Illustrate remote sensing process with the help of diagram? What are applications of Remote Sensing in urban planning? List down various limitations of remote sensing in urban planning?
Give full form: PAN, SPOT and XS (10)

Q.2 Explain Aerial Photogrammetry and Satellite imagery in RS, what is the difference in image quality. Differentiate between Geo-Stationary and Sun-Synchronous Satellites? (10)

Q. 3 What are various image interpretation elements used by GIS users in interpreting image, explain all the eight elements with the help of examples. What are steps in image interpretation processing? (10)

Q. 4 What are various schemes under JNNURM promoted by central government in Remote sensing? (10)

Q. 5 Define Planning Information System. Explain with the help of examples (cadastre method) how PIS currently used in India will pose various problems. In your opinion how Plot by Dots methods can be useful in updating land record systems? (10)

Q.6 Give difference between Dynamic Urban Land use, Semi dynamic Land Use and Passive Land use with examples?

The distance between two points as measured on the ground is 550 m. The distance between the images of the same two points on an aerial photograph is 6.5 cm. Find the scale of Aerial photograph?

Aerial photography on scale 1:350,000 was flown with an aerial camera lens of 14.5 cm focal length. Calculate the flying height above mean ground level of 2300 m. Find the flying height of air craft above mean sea level? (10)