Total No. of Questions : 5

Total No. of Printed Pages: 4

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B.E. (Vth Sem.) (CGPA) Civil Engg. Exam.-2016

SURVEYING-II

· Paper - CE-504

Time Allowed : Three Hours Maximum Marks : 60

Note: Attempt all questions.

All question carry equal marks.

Unit-I

- Q.I (a) What is GPS ? State its application.
 - (b) State various features of total station. Explaining control panel features in details.

or

- (a) Explain construction and working of digital planimeter.
- (b) Write and discuss the principle of electronic distance measurement system.

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Unit-II

- Q.II (a) Determine azimuth and altitude of a star from following data—

 Lattitude of observer = 48°N

 Hair angle of star = 43°

 Declination of star = 18°20' N
 - (b) What do you understand by equinox, sidereal time and solstice?

or

- (a) Describe the field procedure for determining latitude by ex-meridian observation on sun.
- (b) List all the coordinate systems used to locate the position of heavenly bodies in celestial sphene. Describe any one in details.

Unit-III

- Q.III (a) Write a detailed note on DTM.
 - (b) Differentiate between GIS and GPS.

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 (a) What are the various GPS techniques used in surveying. Explain.

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(b) Describe the components of GPS in detail.

Unit-IV

Q.IV (a) Define-

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- (i) Airbase
- (ii) Tilt displacement
- (iii) Principle points
- (iv) ISO center
- (b) Derive an expression for height distortion in an anal photograph.

OF

- (a) What are the photo/image interpretation methods by stereoscope, Explain anal photo interpretation keys with suitable example.
- (b) Write short notes on the following-
 - (i) Flight planning for areil photography
 - (ii) Stereoscopic vision on vertical photographs

Unit-V

- Q.V (a) Write short notes on the following-
 - (i) Indian remote sensing satellites
 - (ii) Software and hardware components of GIS

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 (b) Classify remote sensing and discuss various data analysis methods.

or

- (a) List advantages of GIS.
- (b) Describe in detail remote sensing and GIS application in urban growth analysis

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