

Roll No

CE - 502**B.E. V Semester**

Examination, December 2015

Advanced Surveying**Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 ii) All parts of each question are to be attempted at one place.
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Define GPS. www.rgpvonline.in
 b) Explain uses of digital planimeter.
 c) Discuss digital levels. www.rgpvonline.in
 d) Discuss the principle of electronic distance measurement system. www.rgpvonline.in

OR

What are the functions of the microprocessor in the total station?

2. a) Define Terrestrial poles and Equator.
 b) Explain sensible horizon and visible horizon.
 c) Explain declination and hour angle system.
 d) Derive an expression for calculating the spherical excess of a spherical triangle.

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- d) Explain the characteristics of relation. Also explain the relational databases.

OR

What are DDL, DML and DCL? Differentiate among the three and give one command for each of these.

Unit-III

3. a) What do you mean by the terms loss-less decomposition?
 b) What is multivalued dependencies?
 c) Write a brief notes on trival and non trival dependencies.
 d) Prove that a relation which is in 4NF must be in BCNF.

OR

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What is normalization? Justify the need for normalization with examples.

Unit-IV

4. a) What is web databases?
 b) Compare OODBMS and DBMS.
 c) What are challenges in designing object-oriented data bases? Discuss.
 d) What problems occur in the database when transactions do not satisfy ACID properties? Explain explicitly using suitable examples.

OR

Explain the significance of multimedia and mobile database. Also give two examples for each.

Unit-V

5. a) What is inline queries? Where it is used?
 b) How the "GROUP BY" clause works?
 c) Differentiate between Implicit and Explicit cursor.
 d) What is Triggers? Write various types of triggers.

OR

What is PL/SQL exception handling and why it is needed?