Subject Code | 1 | 8 | 2 |

(English Version)

Subject : Engineering Drawing 2nd Paper

Time : 2 Hours   **Full Marks — 40**

[N.B. : Figures in the right margin indicate full mark.]

Group A - Chain survey

1. Describe in short the working procedure of chain survey.   8

Or,

What is field book? Mention the considerable factors and rules of the field book writing.   2+6=8

2. What is called offset? Mention the specific rules to taking the offset.   2+6=8

Or,

Following ordinates were taken from a base line up to boundary line keeping 20ft intervals. Calculate the area using Simpson's rule.

10, 10.5, 11, 11.25, 11.5, 12, 13, 13.5, 14   8

Group B - Compass survey

3. What is called bearing? Mention the comparative difference between whole circle bearing and reduced bearing.   2+6=8

Or,

Draw marked sketch of a Surveyors compass. What precautions are to be maintained at the time of using compass in compass survey?   3+5=8

4. What is called Traverse? Write down the difference between Surveyors compass and Prismatic compass.   2+6=8

Or,

The following bearings were taken at the time of open traverse surveying with compass:-

Line	Front Bearing	Back Bearing
AB	45° 45′	226° 10′
BC	96° 55′	277° 5′
CD	29° 45′	209 ° 10′
DE	324° 48′	144° 48′

At what stations are affected by the local attraction? Compute the correct bearings.   2+6=8

Group C - Plane table survey

5. Prepare a list of Instruments and accessories required in Plane table survey. Describe the radiation method with sketch. 2+6=8

Or,

What are the advantages of Plane table survey? Describe the re-orientation process of Plane table survey. 3+5=8