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# DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, APRIL - 2023 

## SURVEYING FOR ATCHITECTURE

[Maximum marks: 75]
(Time: 3 Hours)

## PART A

I. Answer all the following questions in one word or one sentence. Each question carries 1 mark

|  |  | ( $9 \times 1=9$ Marks) |  |
| :---: | :---: | :---: | :---: |
|  |  | Module outcome | Cognitive level |
| 1 | Name the survey in which curvature of earth is not considered. | M1.01 | R |
| 2 | An engineer's chain have.......number of links. | M1.01 | R |
| 3 | Define parallax. | M2.01 | R |
| 4 | Name the station point where both back sight and fore sight are taken. | M2.02 | R |
| 5 | Define the term transiting the telescope. | M3.01 | R |
| 6 | Define the term swinging of theodolite. | M3.01 | R |
| 7 | Define slope distance. | M4.03 | R |
| 8 | Full form of GPS is........ | M4.01 | R |
| 9 | The instrument which is a combination of electronic theodolite and EDM is $\qquad$ | M4.03 | U |

## PART B

II. Answer any eight questions from the following. Each question carries $\mathbf{3}$ marks.

|  |  | ( $8 \times 3$ = 24 Marks) |  |
| :---: | :---: | :---: | :---: |
|  |  | Module outcome | Cognitive level |
| 1 | Explain the temporary adjustments made on a compass. | M1.03 | U |
| 2 | Fore bearing of 3 traverse lines are given below:- <br> (a) AB : Fore bearing $=\mathrm{N} 40^{\circ} 30^{\prime} \mathrm{E}$ <br> (b) BC: Fore bearing $=\mathrm{S} 60^{\circ} 30^{\prime} \mathrm{W}$ <br> (c) CD : Fore bearing $=290^{\circ}$ <br> What will be the back bearing of the lines? | M1.03 | U |
| 3 | List the disadvantages of Plane table surveying over other techniques of surveying. | M1. 01 | R |
| 4 | List the characteristics of contour lines. | M2.02 | R |
| 5 | Explain the steps in elimination of parallax in levelling. | M2.01 | U |
| 6 | List the fundamental lines of a transit theodolite. | M3.01 | R |


| 7 | Discuss the uses of electronic theodolite. | M4.01 | U |
| :--- | :--- | :--- | :---: |
| 8 | Describe the applications of GIS. | M4.02 | U |
| 9 | State the parameters of total station. | M 4.03 | R |
| 10 | Explain about distomat. | M4.01 | U |

## PART C

Answer all questions. Each question carries seven marks
(6 x $7=42$ Marks)



