| Name <br> Enrol | ent No: | 1 UPES <br> UNIVERSITY WITH A PURPOSE |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Progr Cour Cour Numb Note: | ```UNIVERSITY OF PETROLEUM END Semester Examina \\ B-Tech GIE \\ : Geodesy and Surveying \\ Code: PEGS-3017 \\ r of pages: 03 \\ nline submission``` | $\begin{aligned} & \text { ENERGY } \\ & \text { MAY } 2021 \end{aligned}$ | STUDIES <br> Semes <br> Time: <br> Max. M | r: VI <br> 80 minute <br> rks: 100 | hour) |
| 1. Each questions carry 5 Marks $6 \times 5=30 M$ <br> 2. Type answer for all the questions in the answer sheet using given space. <br> 3. The maximum word limit is 30 or 3 lines (only question number $1,2 \& 3$ ) and type single word answer for question number 4, 5 and 6). |  |  |  |  |  |
| Q.No | Question |  |  |  | COs |
| 1 | Define the following terms in context with surveying : a) Scale \& b) Plan |  |  |  | CO1 |
| 2. | Distinguish between the following terms: i) Trivet and Tribrach ii) Pegs and Arrows |  |  |  | CO 2 |
| 3 | Write a brief note on importance of two basic principles of survey in geodesy. |  |  |  | CO3 |
| 4 | Fill in the blanks with suitable answer: <br> i. Which type of needle is used in a surveyor compass $\qquad$ <br> ii. In methods of tachometer survey, the base of stadia staff intercept inversely with horizontal staff position is called as. $\qquad$ <br> iii. The line passes through zero declination is known as. $\qquad$ <br> iv. The closing error in a Closed Travers is adjusted by. $\qquad$ rule <br> v. The absences of spherical aberration is called as .. $\qquad$ |  |  |  | CO4 |
| 5 | MCQ (Choose correct answer and type the answer) | A) answer | B) answer | C) answer | CO5 |
|  | a) The Egyptian first linear measurement is known as... | Cubit | Groma | Pace |  |
|  | b) The Vernier theodolite is also called as.... | Calliper | Transit | Optical |  |
|  | c) A telescope is its ability to produces a sharp image and good the object are seen clearly through the telescope. | Resolution | Aplanation | Definition |  |
|  | d) The line of collimation is perpendicular to the $\qquad$ Axis in theodolite. | Trunnion | Vertical | Horizontal |  |
|  | e) The one hundred grad is equal to .....degree | 60 | 45 | 90 |  |



## SECTION B

1. Each questions carry $\mathbf{1 0}$ Marks
$5 \times 10=50 \mathrm{M}$
2. Scan and upload your answer
3. The maximum word limit is $\mathbf{5 0 0}$ or one page

| Q.No | Question | COs |
| :--- | :--- | :--- |
| 7 | Define errors and discus in brief classification of errors in context with Surveying and Geodesy. | CO1 |
| 8. | Describe in brief the role and significance of following terms in Surveying. <br> a) Accuracy and Precession b) Scale of chord c) Bench marks d) Azimuth | CO 2 |
| 9 | Explain in brief the significance of different type of gravimeters analysis in context with <br> Geodesy. <br> Explain in brief the classification of levelling and its merits and demerits in Surveying. | $\mathrm{CO3}$ |
| 10 | Write a short note on following terms and their importance in linear measurements. <br> a) Chaining b) Offset c) Ranging d) Traverse e) Taping | $\mathrm{CO4}$ |
| 11 | Discus in brief the procedure, merits and demerits in radiation, intersection and resection <br> methods of plane table survey. | $\mathrm{CO5}$ |

## SECTION B

1. The question number 12 answer either $a, b, O R c$
$1 \times 20=20 \mathrm{M}$
2. Scan and upload your answer
3. The maximum word limit is $\mathbf{7 5 0}$ or two page

