| Name: <br> Enrolment No: |  |  |  |
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| \left.UNIVERSITY OF PETROLEUM AND ENERGY STUDIES  <br> End Semester Examination, May 2022 $\right]$Semester: VI <br> Course: GEODESY AND SURVEYING <br> Program: B-TECH GIE <br> Course Code: PEGS-3017 <br> No of pages: 03 <br> Instructions: Carefully read the questions and answer. All the questions are compulsory in section A <br> and Section B \& C for Q. 9 and Q.11 has internal choices |  |  |  |
|  | SECTION A (5Qx4M=20Marks) |  |  |
| S. No. |  | $\begin{gathered} \text { Mar } \\ \text { ks } \end{gathered}$ | CO |
| Q 1 | Define the following terms in context with surveying; Geoid and Ellipsoids | 4 | CO1 |
| Q 2 | Fill in the blanks with suitable answer: <br> I. The cubit was used to make pyramid, the mean errors was <br> II. The $\qquad$ Reference system is considered earth as oblate spheroid along N_S axis <br> III. The $\qquad$ Reference frame is provide a time/space orientation or ration of earth surface data <br> IV. The........ axis is the length of shortest radius of an ellipse. | 4 | CO1 |
| Q 3 | Distinguish between the following terms: a) Tape and Chain b) Ranging rod and Offset rods | 4 | CO2 |
| Q 4 | Select correct choice (True or False) for the following questions: <br> a. The abney level is used to measure the inclination of slope angle <br> b. In chain surveying tie lines are primarily provided to avoid triangulation from chain lines <br> c. Clothoid is an ideal transition curve. <br> d. The plumb bob is used for measuring angular distance in surveying. | 4 | CO2 |
| Q 5 |  | 4 | CO3 |



| BC | 20 ${ }^{\circ} 3$ | $200^{\circ} 30^{\prime}$ |
| :---: | :---: | :---: |
| CD | $295{ }^{\circ} 45^{\prime}$ | $115^{\circ} 45^{\prime}$ |
| DE | $218{ }^{\circ} 3{ }^{\prime}$ | 38 ${ }^{\circ}{ }^{\prime}$ |
| EA | $120^{\circ} 30^{\prime}$ | $300^{\circ} 30^{\prime}$ |

