| Seat No.: | Enrolment No. |
|-----------|---------------|
| | |

GUJARAT TECHNOLOGICAL UNIVERSITY

| Subi | ect (| BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2022 Code:3151308 Date:13-0 | 1-2023 |
|------------|------------|---|--------|
| • | | Name:Basics of Remote Sensing & GIS | 1 1010 |
| Time | e:10 | :30 AM TO 01:00 PM Total Ma | rks:70 |
| Instru | | | |
| | 2. | Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed. | |
| | | r r r r r r r r r r r r r r r r r r r | MARKS |
| Q.1 | (a) | | 03 |
| | (b) | | 04 |
| | (c) | Explain the application of remote sensing in oceans and coastal monitoring. | 07 |
| Q.2 | (a) | Differentiate active passive Remote sensing. | 03 |
| | (b) | · • | 04 |
| | (c) | What are the considerations for an ideal remote sensing system? OR | 07 |
| | (c) | What are the advantages and limitation of visual image interpretation and digital image processing? | 07 |
| Q.3 | (a) | Differentiate between photograph and image. | 03 |
| | (b) | What is image interpretation? Discuss the process of image interpretation? | 04 |
| | (c) | Explain need of introducing filters in RS. the types of filters used in RS OR | 07 |
| Q.3 | (a) | | 03 |
| | (b) | • | 04 |
| | (c) | Explain the role of remote sensing in agriculture. | 07 |
| Q.4 | (a) | What is Hyper-spectral Imaging? | 03 |
| | (b) | Differentiate between low oblique aerial photograph and high oblique aerial photograph. | 04 |
| | (c) | OR | 07 |
| Q.4 | (a) | * | 03 |
| | (b) | | 04 |
| | (c) | Describe GIS- as an information infrastructure. | 07 |
| Q.5 | (a) | analysis? | 03 |
| | (b) | | 04 |
| | (c) | Define and highlight the role of functional segments of GPS. OR | 07 |
| Q.5 | (a) | | 03 |
| £.5 | (b) | | 04 |
| | (c) | What are the errors introduced in GPS? Explain in brief. | 07 |
