| uhioet | Co | B.ARCH. – SEMESTER– III EXAMINATION – SUMMER 2019 de: 1035006 Date: 11/06/2019 |
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| ubject ime: (1 istructi 1, 2, | t Nai 02:30 ions . At . Ma | de: 1035006 me: Surveying and Levelling 0 PM TO 04:30 PM tempt all questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks. |
| Q.1 | (A) (B) | Enlist the instruments required for chain & tape survey with their uses. Describe principles of Surveying in details with figure. |
| Q.2 | (A) (B) | Explain indirect ranging with neat & clean figure. Convert following WCB (Whole Circle Bearing) to QB (Quadrant Bearing). 13° 85° 127° 200° 247° 308° |
| | | OR |
| | (B) | Convert following FB (Fore Bearing) to BB (Back Bearing). 32° 92° 137° 217° 301° 334° |
| Q.3 | (A) | The offsets from base line to boundary of an area are shown below at an interval of 10m. Find area between base line and boundary by Trapezoidal & Simpson's rule. 0.47 1.30 1.75 2.14 3.17 2.42 1.38 |
| | (B) | What are the characteristics of contour lines? OR |
| Q.3 | (A) | Following are the bearing taken by Prismatic compass for a traverse ABCDA. Find the interior angle. Also show the check. |
| | | Line F.B. B.B. AB 52° 232° BC 105° 285° CD 217° 37° DA 308° 128° |
| | (B) | Explain the terms: 1. Base Line, 2. Check Line, 3. Tie Line |
| Q.4 | (A) | The following readings were taken by a dumpy level. The 1 st reading was taken on BM of value 100m. The instrument was shifted after 4 th & 7 th readings. Show Arithmetic checks using Rise-fall of H.I. Method. 0.50 1.20 2.15 3.40 1.25 2.30 3.50 1.47 2.10 3.10 |
| | (B) | Draw a neat & clean sketch of a dumpy level & label the parts. |
| | (2) | OR |

(B) Draw contour of following Hill, Valley & Pond.

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