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Total Number of Pages : 2

B.TECH

4th Semester Regular Examination-April-May 2019**BCEPC4020 SURVEYING-II**

(Regulations 2017) CIVIL ENGG.

Time : 3 Hours

Maximum : 100 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions) 10 x 2=20 Mark**Q.1. Answer ALL Questions.**

- a Tachometry survey is suitable when the ground is [CO1] [PO1]
a) Undulating b) Level c) Plane d) Hilly
- b An ideal vertical to join two gradients is_____ [CO1] [PO2]
a) Circular b)Parabolic c) Elliptical d) Hyperbolic
- c How many orders are accepted grades in triangulation? [CO2] [PO1]
a) 1 b) 2 c) 3 d) 4
- d Maximum triangle closure for second order triangulation is_____ [CO2] [PO2]
a) 8 sec b)3 sec c) 12 sec d) 6 sec
- e What triangles are generally preferred to get good results in plotting? [CO2] [PO1]
a) Isosceles
b) Obtuse angled
c) Equilateral
d) Acute angle
- f What is the fundamental principle of photogrammetry? [CO3] [PO1]
a) Interference
b) Resection principle
c) Triangulation
d) Intersection principle
- g Which photogrammetry method has topographical mapping as a common application? [CO4] [PO1]
a) Interpretative Photogrammetry
b) Metric photogrammetry
c) Aerial Photogrammetry
d) Space Photogrammetry
- h The difference between observed value and through value is known as_____ [CO3] [PO2]
a) Mistake b)Error c)Variation d) False
- i The value which is free from all errors is known as [CO3] [PO1]
a) Absolute value
b) Random value
c) Direct value
d) True value
- j The weight of arithmetic mean of the measurement of unit weight is equal to_____ [CO5] [PO1]
a) No.of observations
b) No.of repetitions
c) No. of coefficients
d) No. of average errors

**PART – B: (Short Answer Questions) 10X2=20 Marks****Q.2. Answer ALL questions**

- | | | |
|---|---|-------------|
| a | Write any four elements of a curve ? | [CO1] [PO1] |
| b | Mention the classification of various systems of tachometry? | [CO1] [PO1] |
| c | What are the points to be considered while selecting a base line? | [CO2] [PO2] |
| d | Define EDM? What are its uses? | [CO2] [PO1] |
| e | Explain any four applications of Total station? | [CO2] [PO2] |
| f | What are the principles of triangulation? | [CO4] [PO2] |
| g | What is the strength of figure? | [CO4] [PO2] |
| h | What are aerial photographs? | [CO5] [PO2] |
| i | What are the effects of cumulative errors? | [CO3] [PO2] |
| j | What is law of weight? | [CO4] [PO2] |

PART – C: (Long Answer Questions) 4X15=60 Marks**Answer ALL questions****Q.3**

- | | | | |
|---|---|---------|-------------|
| a | Explain different systems of tacheometry classifications? | 8 Marks | [CO1] [PO2] |
| b | Draw a neat sketch of simple curve and indicate its components? | 7 Marks | [CO1] [PO2] |

OR

- | | | | |
|---|---|----------|-------------|
| c | Explain different types of transition curves? | 5 Marks | [CO1] [PO2] |
| d | Draw neat sketch of compound curve and indicate its components? | 10 Marks | [CO1] [PO2] |

Q.4

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|---|--|---------|-------------|
| a | What are the objects of Geodetic triangulation? | 8 Marks | [CO2] [PO1] |
| b | Draw the neat sketches of triangulation and explain? | 7 Marks | [CO2] [PO2] |

OR

- | | | | |
|---|--|---------|-------------|
| c | Explain about the classification of triangulation system? | 8 Marks | [CO2] [PO2] |
| d | Write about points to be considered while selecting base line? | 7 Marks | [CO3] [PO1] |

Q.5

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|---|---|----------|-------------|
| a | What is photogrammetric survey? Explain about terrestrial photogrammetry? | 10 Marks | [CO5] [PO1] |
| b | Explain about stereoscopic parallax? | 5 Marks | [CO5] [PO2] |

OR

- | | | | |
|---|--|----------|-------------|
| c | What are the factors to be considered while setting out sewer lines? | 5 Marks | [CO4] [PO1] |
| d | Write short notes on i) Picture plane ii) Focal length iii) Vertical photograph? | 10 Marks | [CO4] [PO1] |

Q.6

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|---|--|----------|-------------|
| a | Define an error? What are the different types of errors? | 10 Marks | [CO3] [PO1] |
| b | What are the general principles of least squares? | 5 Marks | [CO3] [PO1] |

OR

- | | | | |
|---|---|----------|-------------|
| c | Explain any three laws of weights with examples? | 10 Marks | [CO3] [PO2] |
| d | What is the procedure for distribution of errors? | 5 Marks | [CO3] [PO1] |

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