Assignment 2

The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IST.
As per our records you have not submitted this assignment.

1) Which among the following methods are used for generating priorities in AHP? 1 point
   - Eigenvalue method
   - Approximate method
   - Geometric Mean method
   - All of the above

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   All of the above

2) Which of the following equations can compute priorities using eigenvalue method for consistent comparison matrix? (A’ is comparison matrix, \( \lambda_{\text{max}} \) is the maximal eigenvalue, ‘n’ is the dimension of comparison matrix, and ‘p’ is the priority vector) 1 point
   - \([\frac{\lambda_{\text{max}} - n}{(n-1)}] \)
   - \((\lambda_{\text{max}} - n1)\)
   - \((n \cdot \lambda_{\text{max}})\)
   - \(Ap = np\)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   \(Ap = np\)

3) While considering criteria for AHP technique, which criterion is likely to receive more weight? 1 point
The criterion with comparatively more number of sub-criteria

4) In AHP, a pairwise matrix is called consistent if:
   - [ ] Only transitivity property is followed
   - [ ] Only reciprocity property is followed
   - [ ] Both transitivity and reciprocity properties are followed
   - [ ] Neither transitivity nor reciprocity is followed

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Both transitivity and reciprocity properties are followed

5) Choose the incorrect statement with respect to the geometric mean method in AHP:
   - [ ] The method was proposed to overcome the rank reversals due to right-left inconsistency
   - [ ] It is also called as the logarithmic least squares method
   - [ ] The error term is assumed to be log-normally distributed
   - [ ] The error term is additive in nature

No, the answer is incorrect.

Score: 0

Accepted Answers:
- The error term is additive in nature

6) The acronym ELECTRE in English stands for:
   - [ ] Elimination and criteria expressing reality
   - [ ] Evaluation and choice expressing reality
   - [ ] Elimination and choice expressing reality
   - [ ] Elicitation and choice expressing reality

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Elimination and choice expressing reality

7) Which among the following is incorrect with respect to ELECTRE method?
   - [ ] Evaluates alternatives using only the ratio scale
   - [ ] Can handle imprecise or uncertain data
   - [ ] Avoids compensation effect between criteria
   - [ ] Avoids distortion of data due to normalization process

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Evaluates alternatives using only the ratio scale

8) Which among the following holds true for ‘outranking degree’?
   - [ ] Value closer to zero signifies stronger assertion
   - [ ] Value closer to 1 signifies stronger assertion
   - [ ] Value closer to 1 signifies weaker assertion

No, the answer is incorrect.

Score: 0

Accepted Answers:
- Value closer to 1 signifies stronger assertion
9) Consider the following statements and choose the correct option:

Statement I: ELECTRE technique can be used to handle imprecise or uncertain data
Statement II: ELECTRE technique requires the user to specify indifference and preference thresholds

- Statements I is true and Statement II is false
- Statement I is false and Statement II is true
- Both the statements are true
- Both the statements are false

No, the answer is incorrect.
Score: 0
Accepted Answers: Both the statements are true

10) Which of the following indicate measure of inconsistency in a comparison matrix? (‘A’ is a comparison matrix, ‘\(\lambda_{\text{max}}\)’ is maximal eigenvalue, ‘n’ is the dimension of comparison matrix, and ‘p’ is priority vector)

- \([\lambda_{\text{max}} - n]/(n-1)\]
- \(Ap = np\)
- \(\lambda_{\text{max}} - n\)
- \((n - \lambda_{\text{max}})\)

No, the answer is incorrect.
Score: 0
Accepted Answers: \((\lambda_{\text{max}} - n)\)