

MCA SEM-II (2 Years Programme)

MATHS 2 Continuous Assessment QUIZ-1

* Required

SECTION-1

Q. The purpose of a dummy row or column in an assignment problem is to *

- ☐ Prevent a solution from becoming degenerate
- ☐ Provide a means of representing a dummy problem
- ☒ Obtain balance between total sources & total destinations
- ☐ None of the above

Q. If the number of rows and columns in an assignment problem are not equal then it is called _____ problem. *

- ☐ Unbounded
- ☒ Unbalanced
- ☐ Infeasible
- ☐ None of the above



Q. The extra row or column which is added to balance an assignment problem is called ____ *

- ☐ 1. Extra
- ☒ 2. Dummy
- ☐ 3. Fictitious
- ☐ 4. Both 2 and 3

Q. Hungarian Method also known as *

- ☐ Matrix minima method
- ☐ Penalty method
- ☐ Reduced matrix method
- ☐ Penalty cost method

Q. An assignment problem can be viewed as a special case of transportation problem in which the capacity from each source is _____ and the demand at each destination is ____ *

- ☒ 1; 1
- ☐ 100:100
- ☐ -1; -1
- ☐ Infinity; infinity



Q. When particular assignment in the given problem is not possible or restricted as a condition it is called ____ problem. *

- ☐ Degenerated
- ☐ Infeasible
- ☐ Unbalanced
- ☐ Prohibited

Q. The assignment problem *

- ☐ Requires that only one activity be assigned to each resource
- ☐ Can be used to maximize resources
- ☐ Is a special case of transportation problem
- ☒ All of the above

Q. The method used for solving an assignment problem is called *

- ☐ Least cost Method
- ☒ Hungarian method
- ☐ Vogel's Approximation method
- ☐ MODI method



Q. Maximization assignment problem is transformed into a minimization problem by ^{*}

- ☐ Subtracting each entry in a column from the maximum value in that column
- ☐ Adding each entry in a column from the maximization value in that column
- ☒ Subtracting each entry in the table from the maximum value in that table
- ☐ None of the above

Q. The procedure used to solve assignment problems where in one reduces the original assignment costs to a table of opportunity costs is called _____. ^{*}

- ☐ Northwest reduction
- ☐ Simplex reduction
- ☐ Stepping-stone method
- ☒ Matrix reduction

Page 2 of 2

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