APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Scheme for Valuation/Answer Key
Scheme of evaluation (marks in brackets) and answers of problems/key
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019
Course Code: CE472
Course Name: TRANSPORTATION PLANNING

Max. Marks: 100   Duration: 3 Hours

PART A
Answer any two full questions, each carries 15 marks.

Marks

1 a) Decision to adopt planning- problem definition and formulation of goals- problem constraints- solution generation- solution analysis- evaluation of possible alternatives- implementations- operation- performance, assignment and review (5 marks)   (5)

   b) Population growth, Inadequate transport infrastructure, inadequate availability of public and private transport etc. Any 5 points (1 x 5= 5 marks)   (5)

   c) Any five points with explanation for transportation systems and technology. (1 x 5= 5 marks)   (5)

2 a) Explanation of Comprehensive Mobility Plan (5 marks)   (5)

   b) Explanation of integration of transportation modes (5 marks)   (5)

   c) Noise pollution (2 marks)   (5)
      Air pollution (3 marks)

3 a) Explanation (2 marks)   (2)

   b) Any three constrain with explanation (2 x 3= 6 marks)   (6)

   c) Explanation (7 marks)   (7)
      Figure (2 marks)

PART B
Answer any two full questions, each carries 15 marks.

4 a) Definition of Zoning (2 marks)   (4)
      Definition of Study Area (2 marks)

   b) Definition and use of Cordon line (2 marks)   (4)
      Definition and use of Screen lines (2 marks)

   (c) Types of inventories and explanations (7 marks)   (7)

5 a) Any 3 assumptions (1 x 3 = 3 marks)   (10)
      Any two evaluation criteria (1 x 2= 2 marks)
      Any three advantages (1 x 3= 3 marks)

Any two Disadvantages (1 x 2= 2 marks)

(b) List out two types of growth factor model (1 mark) (5)

Explanation of uniform growth factor model (2 marks)

Explanation of average growth factor model (2 marks)

6 a) Explanation of urban structure- Any four points related to urban structure (7)

(1 x 4= 4marks)

Any three characteristics of urban structure (1 x 3 = 3 marks)

b) Explanation of category analysis (3 marks) (4)

Any two advantages (0.5 x 2 =1 marks)

c) Any four factors with explanation (1x 4= 4 marks) (4)

PART C
Answer any two full questions,each carries 20 marks.

7 a) Explanation of diversion curve (2 marks) (10)

Any two Graphs (4 marks)

Any two Equations with explanations (4 marks)

b) Any four terminologies with explanation (1 x 4 = 4marks) (4)

c) Explain All or Nothing Assignment (3 marks) (6)

Example (3 marks)

8 a) Explanation (4 marks) (10)

Flow charts (3 marks)

Equations (3 marks)

b) *Marks can be given to both transport solution to non-transport problems and* (10)
non-transport solution transport problems.

Any five solution with explanations (2 x 5 =10 marks)

9 a) Explanation of traffic assignment (2 marks) (10)

Algorithm of capacity restraint technique (8 marks)

b) Explanation of quick response techniques (10 marks) (10)

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