G.R.	No.		

SEPTEMBER 2017 / IN - SEM Exam (T1)

F. Y. B.TECH. (COMMON) (SEMESTER - I)

COURSE NAME: Basic Civil Engineering (2017 PATTERN)

[Time: 1 Hour]

[Max. Marks: 30]

SCHEME OF MARKING/ MODEL ANSWERS

- Q.(1) (a) Half mark for each correct/ relevant basic area of Civil Engineering.
 - (b) 1 mark for stating the meaning of infrastructure development. Five marks for summarizing the need of development of proper transportation sector in the 21st century with appropriate examples.

 Necessary points: properly designed, constructed and maintained (i)roadways expressways, highways, rapid mass transit system; (ii)traditional, metro/ mono railways (flyovers, bridges, tunnels, walkways, sideways); (iii)smart traffic management system, (iv)Airways, (v)waterways; and allied structures.
 - (c) Four points (applications) expected about role of Civil Engineer for Electronics & Telecommunication Engineering. 1 mark for correct/relevant point. (viz. Site selection, overall campus planning, preparing plans and getting sanction/approval, design and construction of: building, communication towers, launching pads, underground ducts/cables, etc.)

OR

- Q.(2) (a) 2 marks each for appropriate explanation of each sector of infrastructure development. [6]
 - (b) Half mark each for stating relevant two basic areas of Civil Engineering (2 marks). 2 Marks each for correct explanation of these areas (4 marks). [6]
 - (c) 4 marks for proper explanation of **significance** of Transportation Engineering. About 8 correct points/ statements expected. [4]

Q.(3)	(a) Six types of Concrete: ½ mark each (3 Marks), Expl. of Pre-S Concrete 2 marks, Sketch 1 mark	tressed [6]
	(b) Definition: 2 marks; Four functions of foundation: ½ mark each (2 marks)	[4]
	(c) Four advantages and four disadvantages: 1 mark each.	[4]
	OR	
Q.(4)	 (a) List of Materials (Four): ½ mark each (2 marks); two uses of material: ½ mark each (4 marks) (b) Brief discussion of four characteristics of smart material examples: 1 mark each. (c) Brief explanation of four types of loads (1 mark each). 	[6]
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