Please check tha	t this question paper contains_9_	questions and 2	_ printed pages within first ten
[Total No. of Q Uni. Roll No	westions.	RNING [Total	No. of Pages:]
	Semester:.	ch. (Batch 2018 onwa 3 rd (2018) ct: Civil Engineering In Societal and Globa HSMCE-101 16025	ntroduction,
Time Allowed:	03 Hours		Max. Marks: 60
NOTE:	,		
2) Part-C h	and B are compulsory as Two Questions Q8 and Q9 ssing data may be assumed ap	9. Both are compulsor propriately	y, but with internal choice
	Part – A		[Marks: 02 each]
Q.1			
а	Transfer of the principle of the princip		
t	 What are the significant development. 	e of Public Private	Partnership in Infrastructure
∌ 'c	List applications of simulation software in Civil Engineering.		
d			
e	What is the basic difference in transportation of tradition and conventional modes?		
f) What are the possible caus	es and the impact of (Global Warming.
	Part – B		[Marks: 04 each]
Q.2 F	Q.2 How does the infrastructure development in any nation can impact its GDF		ion can impact its GDP2

- Q.3 What do you mean by continual improvement in environment performance? How can it be planned in an organization?
- **Q.4** List and explain of different types of road based on materials used and its performance.

Page 1 of 2

MORNING

1 7 JUN 2023

- Q.5 What are the vital characteristics of energy-efficient built environments
- Q.6 List different types of special concretes and discuss any two in detail..
- Q.7 Discuss the merits and demerits of solar power energy with hydropower energy.

Part - C

[Marks: 12 each]

Q.8 Define Ocean thermal energy conversion. What it is in news now a days

OR

Write note on recent civil engineering breakthroughs and innovations.

Q.9 What are the essential features of a Smart City? Also, discuss various challenges involved in turning an existing city into a smart city.

OR

Discuss the functions of dams and the challenges associated with its construction. Also, discuss the significance of river interlinking.
