## 12427

## 15116 2 Hours / 50 Marks

Seat No.								
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- Instructions (1) All Questions are Compulsory.
  - (2) Answer each next main Question on a new page.
  - (3) Illustrate your answers with neat sketches wherever necessary.
  - (4) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.
  - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

## 1. Attempt any SEVEN of the following:

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- a) Indian W.C. (cross-section) on typical floor.
- b) Enlist materials to be used sewers.
- Intercepting chamber (cross section)
- State any two uses of manhole cover.
- e) Cesspools
- Explain the term storm water drain f)
- Portable septic tank in PVC.
- h) Explain smoke test.
- Advantages of two pipe system. i)
- Explain the term sullage. j)

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2.		Explain with neat sketches any THREE of the following:	Marks 12
	a)	Functioning of Septic tank and Soak pit.	
	b)	Purpose of drop manhole sketch and explain.	
	c)	Flushing tank and its purpose.	
	d)	Methods to check drain pipes for leakages after installations.	
	e)	Laying and execution of sewer pipes.	
3.		Attempt any <b>FOUR</b> of the following:	12
	a)	Why is ventilation essential in sewer lines?	
	b)	Types of Sanitary pipes and their uses.	
	c)	Enlist patterns of refuse collection and state one advantage and one disadvantage of fan pattern.	
	d)	Purpose of Antisyphonage pipe in house drainage system.	
	e)	Sketch and explain any two types of traps.	
	f)	Give three advantages and three disadvantages of separate system of drainage.	
4.		Attempt any <u>TWO</u> of the following:	12
	a)	What are advantages of having a sewer with self cleaning velocity?	
	b)	Draw plan and typical longitudinal section of septic tank with soak pit to show working and constructional features.	
	c)	Cross section of Drop manhole.	

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