17607

16172

3 Hours / 100 M	arks	Seat No.								
Instructions :	(2) Answe(3) Illustre(4) Figure	estions are com r each next man ate your answer es to the right in the suitable data,	in que s wit idica	estion h nea te ful	t sketci I mark	hes wl	_	e r nec	essarj	v.
									I	Marks
1. A) Attempt any threea) State the purposeb) Explain in brief 'fc) List any four wated) Explain necessity	of codes in plushometer ver conserving	plumbing. valve' with neat s s fixtures with the			n flow	rate.				12
B) Attempt any one ofa) State classificationb) Explain different	on of traps wi	ith sketches.	ith sko	etches	i.					8
 2. Attempt any four of the a) Differentiate between b) Explain hot and color c) List any eight types d) List any four plumb e) State any four mining f) Explain colour code 	en gray and red water distrited of pipe mater ing appurtentum standard	bution systems. rials. ances and explaids for plumbing.		-		tch.				16
 3. Attempt any four of the a) Explain with sketch b) Explain prohibited t c) List types of urinals d) Explain with sketch e) What do you mean 	following: shielded couraps in plumb and explain necessity of	pling method of poing. any one with ske	etch.			of gra	y-wat	er.		16

f) List any eight types of hangers and supports with sketch.

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4. Attemptany four of the following:	Marks 16
a) State the factors necessity for use of alternative materials in plumbing.	
b) State the important points to be considered while planning plumbing on Terrace.	
c) Explain with sketch bell and spigot joint.	
d) List various types of water closet and explain any one in detail.	
e) Explain working of drinking fountains.	
f) Explain working of interceptor with sketch.	
5. Attemptany four of the following:	16
a) Explain with sketch necessity of unions in plumbing.	
b) State the methods of cross-connection control in plumbing.	
c) Explain importance of pipe grading in plumbing.	
d) Explain the various test necessary for plumbing drainage system.	
e) Explain with sketch working of sterile equipment.	
f) Define vent, branch vent, stack vent and continuous vent.	
6. Attempt any four of the following:	16
a) Explain the phenomena of water curtain hydraulic jump.	
b) State the necessity of trap seal protection.	
c) Define with sketch back pressure and backsiphonage.	
d) Explain with sketch working of gate valve.	
e) State the importance of strainers in plumbing.	
f) State the necessity of back flow protecting fixtures in plumbing.	