## **Unit Test 2**

## For Standard Level

	first wife and a day	Level wait allow pauroen s of the
	이미스 아이트 중에게 이렇게 하고 있다. 그렇게 이렇게 살 없었다. 그 없다는 그 그렇다.	
	Sacottolia was did to	100 feet files from the (1 mark anch)
1. If the HCE	of 65 and 117:	ur options in the following questions:
m is	of 65 and 117 is expressible in	the form $65m - 117$ , then the value of
(a) 4	(b) 2 (c)	A
2. 0.57 can be	e written as $\frac{p}{q}$ , $q \neq 0$ as	on need it managed to best of the control of the co
(a) $\frac{26}{45}$	(b) $\frac{13}{27}$ (c)	$\frac{13}{29}$ (d) $\frac{57}{99}$
<ul><li>3. What is the n is a natu</li><li>(a) no pos</li><li>(c) 5</li></ul>	e smallest positive integer which tral number) so that it ends with the sible digit	n should be multiplied with $6^n$ , (where h the digit $0$ ?
Short Answer	Type-I Questions	(2 marks each)
		(2 marks each)
	the following is a rational numb 00, 0.131313, 0.1521511525,	
- T 00 100 4F	<b>-</b> ( <b>-</b> 100	t is rational and of the form $\frac{p}{a}$ , what
5. Is 23.12345 can you sa	ob 189 rational or irrational? If it it is about the prime factors of <i>q</i> ?	q' ·········
can you sa	Type-II Questions $q$ ?	(3 marks each)
can you sa Short Answer	ay about the prime factors of <i>q</i> ?	(3 marks each)
can you sa  Short Answer  6. Prove that  7. A positive	Type-II Questions t $(2\sqrt{3} - 1)$ is an irrational number integer is of the form $3q + 1$ , $q$ be in any form other than $3m + 1$ .	(3 marks each)
can you sa  Short Answer  6. Prove that  7. A positive its square Justify you  8. If $y^2 = 7$ , $x^2$	Type-II Questions If $(2\sqrt{3} - 1)$ is an irrational number integer is of the form $3q + 1$ , $q$ be in any form other than $3m + 1$ , and $3m $	(3 marks each) ber. [CBSE 2010] eing a natural number. Can you write $a_{i}$ , i.e. $3m$ , $3m + 2$ for some integer $m$ ? en write the variable which represents
can you sa  Short Answer  6. Prove that  7. A positive its square Justify you  8. If $y^2 = 7$ , $x^2$ an irration	Type-II Questions It $(2\sqrt{3} - 1)$ is an irrational number integer is of the form $3q + 1$ , $q$ be in any form other than $3m + 1$ , ar answer. $a^2 = 25$ , $a^2 = 0.09$ and $a^3 = 125$ , the	(3 marks each) ber. [CBSE 2010] eing a natural number. Can you write , i.e. 3m, 3m + 2 for some integer m? en write the variable which represents
Short Answer  6. Prove that  7. A positive its square Justify you  8. If $y^2 = 7$ , $x^2$ an irration  9. If $d$ is the II  10. ( $i$ ) The nu What is	Type-II Questions It $(2\sqrt{3} - 1)$ is an irrational number integer is of the form $3q + 1$ , $q$ be in any form other than $3m + 1$ , are answer. $a^2 = 25$ , $a^2 = 0.09$ and $a^3 = 125$ , then had number. Justify your answer HCF of 45 and 27, find $a^3 = 125$ , then the sumbers 525 and 3000 are both of the HCF (525, 3000)? Justify your answer HCF (525, 3000)? Justify your answer HCF (525, 3000)?	(3 marks each) ber. [CBSE 2010] eing a natural number. Can you write $a_1, i.e. 3m, 3m + 2$ for some integer $m$ ? en write the variable which represents $a_2, i.e. 3m$ sfying $a_3, 5, 15, 25$ and $a_3, 5, 15, 25$ and $a_3, 5, 15, 25$ answer. [NCERT EXEMPLAR]
Short Answer  6. Prove that  7. A positive its square Justify you  8. If $y^2 = 7$ , $x^2$ an irration  9. If $d$ is the II  10. ( $i$ ) The nu What is	Type-II Questions It $(2\sqrt{3} - 1)$ is an irrational number integer is of the form $3q + 1$ , $q$ be in any form other than $3m + 1$ , are answer. $a^2 = 25$ , $a^2 = 0.09$ and $a^3 = 125$ , then had number. Justify your answer HCF of 45 and 27, find $a^3 = 125$ , then the sumbers 525 and 3000 are both of the HCF (525, 3000)? Justify your answer HCF (525, 3000)? Justify your answer HCF (525, 3000)?	(3 marks each) ber. [CBSE 2010] eing a natural number. Can you write $a_1$ , i.e. $a_2$ , i.e. $a_3$ , $a_4$ + 2 for some integer $a_4$ ? En write the variable which represents $a_4$ . Sfying $a_4$ = $a_4$ + $a_5$ + $a_4$ divisible only by 3, 5, 15, 25 and 75.

11. Show that the square of any positive integer cannot be of the form 6m + 2 or

Long Answer Questions

(4 marks each)