REAL NUMBERS

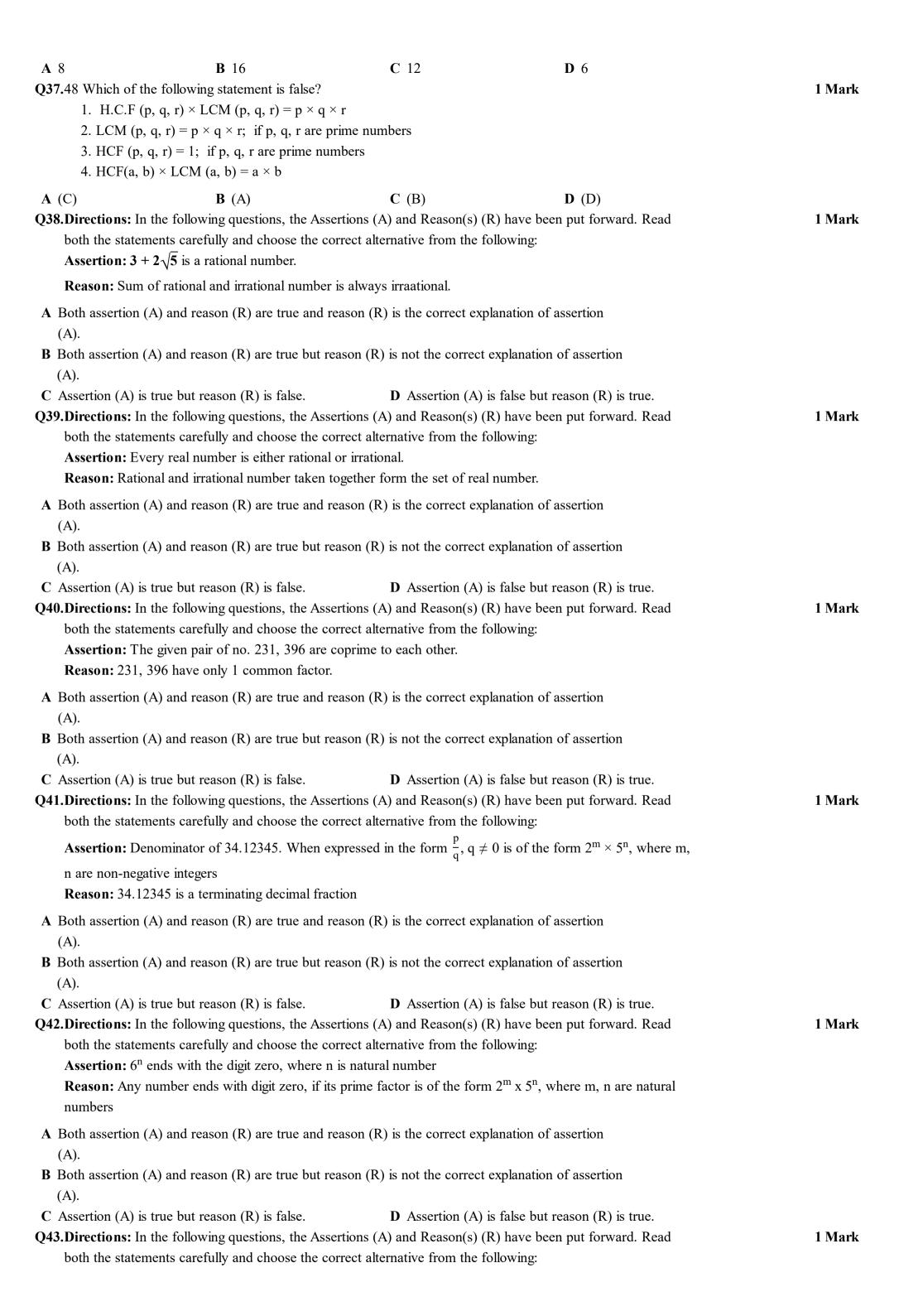


numbers, then HCF (m, n) =

MCQs & A and R WORK SHEET

Test / Exam Name: Real Numbers Student Name:		Standard: 10th Section:		Subject: Mathematics Roll No.:		
Instructions						
1. MULTIPLE CHOICE QUESTIC	NS.					
Q1.20 is written as the product of	f primes as:				1	Mark
$\mathbf{A} \ 2 \times 5$ \mathbf{B}	$2 \times 2 \times 3 \times 5$	$\mathbb{C} \ 2 \times 2 \times 5$		$\mathbf{D} \ 2 \times 2 \times 3$		
Q2. The sum of the exponents of	the prime factors in the pri	me factorisation of 1	96, is:		1	Mark
	2	C 4		D 6		
Q3. The HCF of 256,442 and 940) is:				1	Mark
	14	C 142	GT0	D None of these	_	
Q4. The LCM of two numbers is			CF?		1	Mark
	500	C 400	7 in 20 in	D 200	1	Mords
Q5. The number of possible pairs	<u>-</u>		' IS 30 IS:	D 4	1	Mark
	2	C 3		D 4	1	Mark
Q6. Let $x = \frac{p}{q}$ be a rational number			e form 2n5	m, where n,m are	1	WIGH
non-negative integers. Then x	-					
	False	C Neither		D Either		N/L 1
Q7. The exponent of 2 in the prim				D 4	1	Mark
A 4 B Q8. If $n = 2^3 \times 3^4 \times 5^4 \times 7$, then to	be number of consecutive	C 6	ic a natural	D 3	1	Mark
			is a maturar		1	Mark
A 2 B Q9.Two tankers contain 850 litre	3 s and 680 litres of petrol. T	C 4	v of a cont	D 7	1	Mark
measure the petrol of each tar	-	•	y or a come	amer which can	•	1714111
-						
A 200 litres B	180 litres	C 170 litres		D 190 litres		
Q10. The smallest number by whi	ich $\sqrt{27}$ should be multiplie	ed so as to get a ration	nal number	is:	1	Mark
$\mathbf{A} \ \sqrt{27} \qquad \qquad \mathbf{B}$	$3\sqrt{3}$	$\mathbf{C} \sqrt{3}$		D 3		
Q11. The relationship between HO	CF and LCM of two natura	l numbers is			1	Mark
$\mathbf{A} \ \mathrm{HCF} \times \mathrm{LCM} = \mathbf{a} - \mathbf{b} \qquad \mathbf{B}$	$HCF \times LCM = a \times b$	$\mathbf{C} \ \mathrm{HCF} \times \mathrm{LCM} =$	a + b	D None of these		
Q12.If the sum of LCM and HCI	F of two numbers is 1260 a	nd their LCM is 900	more than	their HCF, then the	1	Mark
product of two numbers is:						
	194400	C 198400	2 1	D 205400	1	Manla
Q13.If two positive integers a and then HCF (a, b) is:	i b are expressible in the 10	rm $a = pq^2$ and $b = p$	² q; p, q be	ang prime numbers,	1	Mark
	p^3q^3	$\mathbf{C} \mathbf{p}^3 \mathbf{q}^2$		$\mathbf{D} \mathbf{p}^2 \mathbf{q}^2$		
A pq _ B O14.	PΥ	Срч		Брч	1	Mark
Q14. 3.27 is:						
2	A rational number.	C A natural number	er.	D An irrational number.		
Q15. The number $\frac{\sqrt{5} + \sqrt{2}}{\sqrt{5} - \sqrt{2}}$					1	Mark
γ 5 – γ 2						
A an integer B	not a real number	C an irrational nur	nher	D a rational number		
Q16. If $a = 2^3 \times 3$, $b = 2 \times 3 \times 5$,				a radonal number	1	Mark
	2	C 3		D 4		
Q17. If two positive integers tn an			p^3q^2 , when		1	Mark





Assertion: The largest number that divide 70 and 125 which leaves remainder 5 and 8 is 13. Reason: HCF $(65, 117) = 13$.	
A Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	
B Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).	
C Assertion (A) is true but reason (R) is false. D Assertion (A) is false but reason (R) is true.	
Q44.Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:	1 Mark
Assertion: For any two positive integers a and b H.C.F. $(a, b) \times L.C.M.$ $(a, b) = a \times 6$.	
Reason: The H.C.F. of two numbers is 5 and their product is 150. Then their L.C.M. is 40.	
A Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	
B Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).	
C Assertion (A) is true but reason (R) is false. D Assertion (A) is false but reason (R) is true.	
Q45.Directions: In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following:	1 Mark
Assertion: If P is prime then \sqrt{p} is irrational so $\sqrt{7}$ is irrational number	
Reason: $\sqrt{7}$ is not expressed in the form of $\frac{p}{q}$ so it is irrational no.	
A Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).	
B Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).	
C Assertion (A) is true but reason (R) is false. D Assertion (A) is false but reason (R) is true.	