Department of Mathematics	(see above)

Descriptive Questions-Short Answer Type (2 marks each)

Q1.	Write all the factors of a) 39 b) 28
Q2.	Write the first 5 multiples of a) 20 b) 12
Q3.	Find the product of the smallest and the greatest prime numbers between 1 and 100.

Descriptive Questions- Long Answer Type 1 (3 marks each)

Q4.	Check whether 28 is a perfect number. Show proper steps.
Q5.	List all the composite numbers between 30 and 40.
Q6.	Write any three pairs of twin primes less than 30.
Q7.	List three prime numbers between 40 and 50.
Q8.	List all the multiples of 7, which are less than 50.
Q9.	Identify whether the following numbers are prime or composite. Give reasons. a) 99 b) 47 c) 87
Q.10	State whether the following statements are true or false. If it is false, give reason. a) All prime numbers are odd. b) All the natural numbers have minimum two factors. c) The smallest prime number is 1.
Q.11	Find the product of the greatest factor of 25 and the smallest multiple of 15

	Descriptive Questions Long Answer Type 2 (4 marks each)
Q.12	Express the following numbers as a sum of 2 odd primes: a) 36 b) 40
Q.13	Check whether 246 is: c) divisible by 5 a) divisible by 2 d) divisible by 10 b) divisible by 3 Give reasons in each case.
Q.14	Write 4 pairs of prime numbers whose difference is 10.
Q.15	Find four pairs of prime numbers whose sum is a multiple of 4.

Answers	**1a**	1,3,13,39	**1b**	1,2,4,7,14,28	**2a**	20,40,60,80, 100	**2b**	12,24,36,48,60
	3	2 x 97 =194	**4**	1+2+4+7+14 +28=56=2x28 28 is perfect	**5**	32,33,34,35,36,38, 39	**6**	(11,13),(17,19), (3,5)
	7	41,43,47	**8**	7,14,21,28,35, 42,49	**9**	a) Composite, more than 2 factors b) Prime, only 2 factors c)Composite, More than 2 factors	**10**	a) False, 2 is an even prime number b) True c) False, smallest prime number is 2
	11	25 x 15 = 375	**12**	a) 36 = 31 + 5 b) 40 = 37 + 5	**13**	a) Yes, ones place is even. b) Yes, sum of digits divisible by 3 c)No, ones place is not 0 or 5 d) No, ones place is not 0	**14**	(7,17), (13,23), (19,29), (31,41)
	15	(3,5), (11,13), (7,17), (13,23)						

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