BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.
APRIL ASSIGNEMENT ANSWER KEY (2025-26)
CLASS- IX (MATHEMATICS)
TOPIC: NUMBER SYSTEM, POLYNOMIALS

SECTION –A (MULTIPLE CHOICE QUESTIONS)	
1.	(b) 18
2.	(c) 2
3.	(d) Assertion (A) is false and Reason (R) is true.
SECTION – B(2 MARKS QUESTIONS)	
4.	$a^2 + b^2 -2ba +2bc -2ca = (a-b)^2 +2c(b-a)$ $a^2 + b^2 -2ba +2bc -2ca = (a-b)^2 -2c(a-b)$ $= (a-b) (a-b-2c)$
5.	$(x – y)^3= 5^3$ $x^3 - y^3 -3xy(x-y) = 125$ $x^3 - y^3 -3 (84) (5) = 125$ $x^3- y^3 = 1385$
SECTION – C (3 MARKS QUESTIONS)	
6.	$125x^3 + 27y^3+8z^3-90xyz = (5x+3y+2z) (25x^2 +9y^2+4z^2-15xy-6yz-10zx)$
7.	Take f(2) = 0 we get 4p+ 10+r =0 f (1/2) = 0, p +10+4r = 0 Equating both the equations We get p = r
SECTION – D (5 MARKS QUESTIONS)	
8.	$f (z) = az^3 + 4z^2 + 3z - 4$ $f(3) = a(3)^3+ 4(3)^2 + 3(3) - 4 = 27a + 36 + 9 - 4 = 27a + 41…$ (i) $g(z) = z^3- 4z + a$ $g(3) = (3)^3 - 4(3) + a = 27 - 12 + a = 15 + a…$,(ii) f (3) = g(3) Equating, a = -1