

**BCM SCHOOL, BASANT AVENUE, DUGRI, LUDHIANA.**  
**APRIL ASSIGNMENT**  
**CLASS- IX (MATHEMATICS)**  
**TOPIC: NUMBER SYSTEM (ANSWER KEY)**

1.	(a) $\sqrt{5}$
2.	(b) $\sqrt{5}$
3.	(a) 2
4.	$(256)^{0.16} \times (256)^{0.09}$ $= (256)^{0.16+0.09}$ $= 4$ (on solving)
5.	$(81)^{5/x} = 3^5$ $(3)^{20/x} = 3^5$ $x=4$ (on solving)
9.	$a=3, b=0$
10.	(a) conjugate is $\sqrt{5}+\sqrt{2}$ . (b) $(\sqrt{5}+\sqrt{2})/3$ (c) $1.216666\dots = 1.2167$ (approx) (d) No, $\sqrt{5} - \sqrt{2}$ is not a rational number.