Name:

Class:

School name:

Roll number:

Section:

1) Choose the best answer from the given boxes.

i) $2(x-2)(x^3+2x+4)$ $ii)(a-1)(2a^2+a+2)$

iii) $(x-1)(2x^2+x+2)$ $iv)\ (x-1)(x-2)$

a)Factorize:

i) $2a^3-a^2+a-2=$

ii) $2x^3-x^2+x-2=$

iii) $x^2-3x+2=$

iv) $2x^3-16=$

2)Choose the best answer:

$1\frac{1}{2}$ 3

2 2

$4^x-6.2^{x+1}+32=0$

$2^{x+1}-2^{x}-8 =$

$2^{y}+2^{y-2}= 5 =$

$3^{2x+1}= 9^{2x-1}=$

3) Write down the formula of:

a) $(a-b)^3$

i) $(a+b)(a^2-ab+b^2)$ ii) $(a-b)(a^2+ab+b^2)$

b) $a^4+a^2b^2+b^4$

i) $(a^2+ab+b^2)(a^2-ab+b^2)$ ii) $(a^2-ab+b^2)(a^2+ab+b^2)$