ABC PUBLIC SCHOOL

FA-1- 2017-18
CLASS - X
SUB- MATHS

Time: 1:20 Hrs. M.M.: 20

Note:- Attempt all questions, Each questions carry 2 marks.

Q1: If α,β,χ are roots of 6x3+3x2-5x+1, find $\frac{1}{\alpha}+\frac{1}{\beta}+\frac{1}{\chi}$

Q2: Find a cubic polynomial whose zeroes are 3,5,–2.

Q3: If the zeros of x^3-3x^2+x+1 are (a–b) a, (a+b), find value of a & b.

Q4: If one zero of polynomial is $(a^2+9)\,x^2 + 13\,x + 6$ a is reciprocal of the other. Find value of a.

Q5: i) Degree of zero polynomial is_____.

ii) Degree of constant polynomial P (x) = 5 is_____.

Q6: If χ,β, are are zeros of polynomial of $(x) = x^2 + x-2$. Find. $\left(\frac{1}{\chi}-\frac{1}{\beta}\right)$

Q7: Find zeros of x^2-x-6.

Q8: Find quotient & remainder when $f(x) = x^3-3x^2 + 5x-3$ is divided by $g(x) = x^2-2$.

Q9: It is given that 1 is zero of $7x - x^3 - 6$, find other zeros.

Q10: If (x+a) is factor of $2x^2+2ax + 5x + 10$, find value of 'a'.

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