Assignment-01

Anower to the question no-1.

j) Standard =
$$(0.144)_2 \times 2^4$$

= $1 \times 2^{-1} + 1 \times 2^{-2} + 1 \times 2^{-3} \times 2^4$
= $(14)_{10}$

11) Nonmalized =
$$(1.111)_{2} \times 2^{9}$$

 $= 1 \times 2^{9} + 1 \times 2^{-1} + 1 \times 2^{-2} + 1 \times 2^{3} \times 2^{4}$
 $= (30)_{10}$

) Standard
=
$$(0.100) \times 2^{-2}$$

= $(0.125)_{10}$

Negative support:

Maximum will be the same.

95+andard = (14),0

1) Nonmalized = (30)10.

11) Denormalized = (15)10

1) Standard = - (0.111) x24

= -14)10

1) Normalized = - (1.111), x24 2 - (30)

Assignment of

") DeMormalized = - (0.1111), x24 - - (15)10

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Amwer to the question no-2

J-m-1

$$(6.235)_{10}$$

1 6000 -01.

$$0.235 \times 2 = 0.47 + 0$$

$$0.47 \times 2 = 0.94 + 0$$

$$0.94 \times 2 = 1.88 + 1$$

$$0.88 \times 2 = 1.76 + 1$$

$$0.76 \times 2 = 1.52 + 1$$

$$0.52 \times 2 = 1.04 + 1$$

$$0.04 \times 2 = 0.08 + 0$$

$$(6.235)_{1G} = (110.0011110)_{2}$$
(Am)

15 (100) - 201 = [6:125-600]

b) if
$$m = 5$$
 $a_{\frac{1}{2}}(6.235)_{0} = (1.10.0011110)_{2} [from 'a']$
 $= (0.11000)_{2} \times 2^{3}$
 $fl(m) = 0.75 \times 2^{3} = (6)_{10}$

if $m = 6$
 $a_{\frac{1}{2}}(0.110001)_{2} \times 2^{3}$
 $fl(m) = 0.765625 \times 2^{3} = (6.125)_{10}$

C) if $m = 5$
 $fl(m) = (0.11000)_{2} \times 2^{3}$
 $= (0.125)_{10}$

if $m = 6$
 $fl(m) = (0.11000)_{2} \times 2^{3}$
 $= (0.125)_{10}$

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 $= (0.125)_{10}$

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 $= (0.125)_{10}$
 $= (0.125)_{10} \times 2^{3}$
 $= (0.125)_{1$

Amner to the question no-3

$$2\pi^{2} - (0\pi + 3 = 0) \qquad SF = 0$$

$$-(-co) + \sqrt{(-co)^{2} - 4 \cdot 2 \cdot 3}$$

$$2 \cdot 2$$

$$= 60 + \sqrt{360.0 - 24}$$

$$= 15 + \sqrt{894}$$

$$\chi_1 = 29.9499$$
 $\chi_2 = 0.050075$

$$\begin{array}{l} .: n_1' = +1(15) + fl\left(\frac{\sqrt{834}}{2}\right) \\ = 29.0499 \\ \text{and} \quad n_2' = fl(15) - fl\left(\frac{\sqrt{894}}{2}\right) \end{array}$$

- 0.0501

Hence, after thround up the noot ne + ne' duk to substraction.

$$4, 4 = \frac{C}{a}$$

from "a" $\frac{C}{a} = \frac{3}{2} = 1.5$

and,

$$x_1 \cdot x_2 = 29.9499 \times 0.650075$$

= 1.49975
+1.5

So, it does'nt satisfy the claim.

if we ignore the substaction part then we can overcome the loss,

So,

$$d_1d_2 = d_0$$

 $d_1d_2 = d_0$
 d_1d_2

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2 0.0500836

This is the actual value of x2

(An)