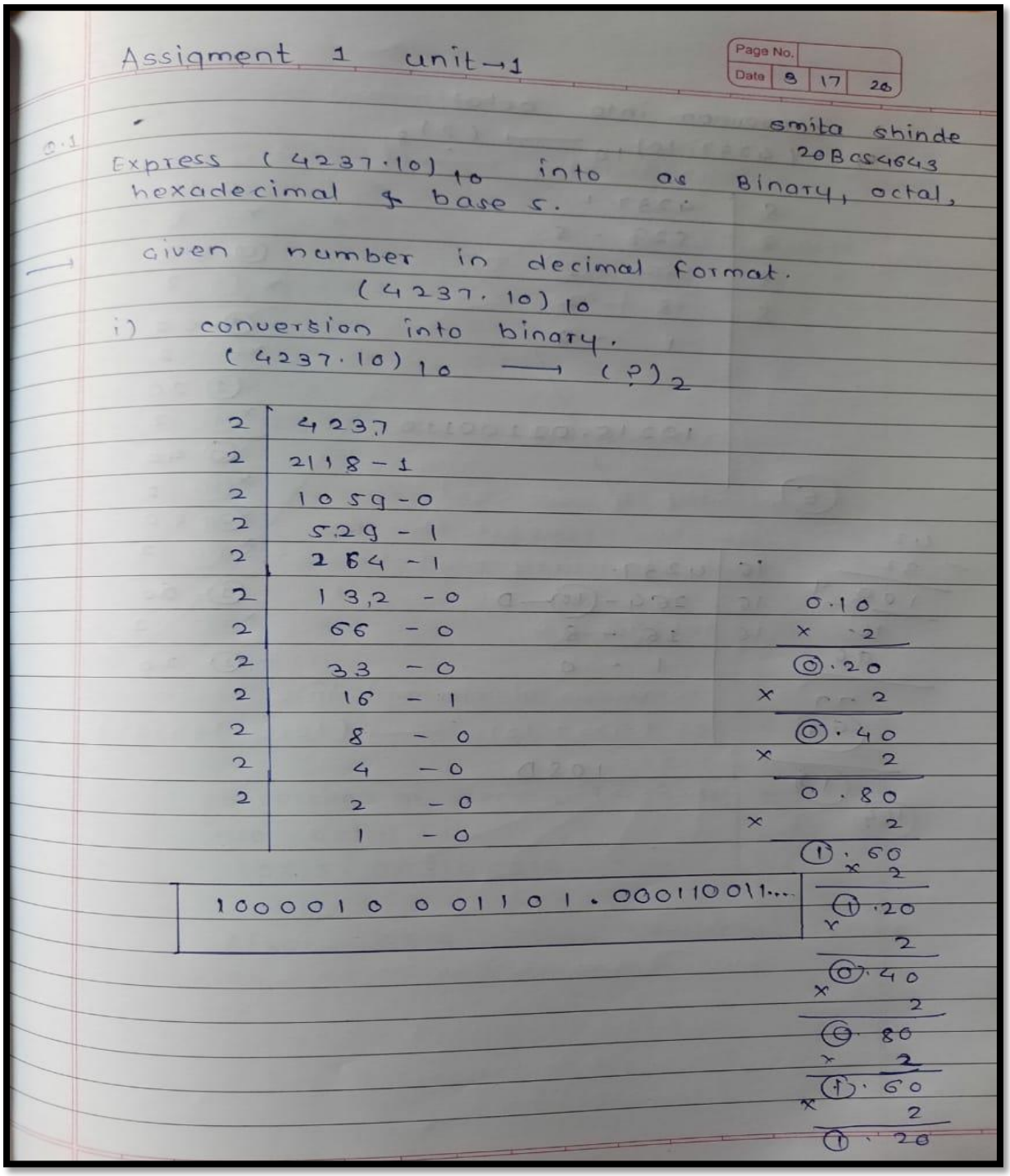
Express (4237.10) decimal number as Binary, octal, hexadecimal & base 5



Assigment 1 unit→1

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smita shinde
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Express (4237.10)10 into as Binary, octal, hexadecimal & base 5.

→ given number in decimal format.

(4237.10)10

i) conversion into binary.

(4237.10)10 ⟶ (?)2

2	4237
2	2118 - 1
2	1059 - 0
2	529 - 1
2	264 - 1
2	132 - 0
2	66 - 0
2	33 - 0
2	16 - 1
2	8 - 0
2	4 - 0
2	2 - 0
	1 - 0

0.10
× 2
0.20
× 2
0.40
× 2
0.80
× 2
1.60
× 2
1.20
× 2
0.40
× 2
0.80
× 2
1.60
× 2
1.20

1000010 0 01101 . 0001100 11...

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2) conversion into octal

$(4237.10)_{10} \longrightarrow (?)_8$

8	4237
8	529 - 5
8	66 - 1
8	8 - 2
8	1 - 0

10215.063146314.....

0.10
× 8
⓪.80
× 8
⑥.40
× 8
③.20
× 8
①.60
× 8
④.80
× 8
⑥.40
× 8
③.20
× 8
①.60
× 8
④.80

conversion of decimal (4237.10) into octal is
10215.063146314...

After 6314... same sequence follows infinitly.

9) conversion into hexadecimal

$(4237.10)_{10} \longrightarrow (\ ?\ )_{16}$

16	4237
16	264 - (13) — D
16	16 - 8
	1 - 0

$108D.19999$

infinitly '9' we get so we can convert this one nine as carry digit before of this 9.. so we will get (10) — (A).

0.10×16

$(1).60 \times 16$

$(9)60 \times .16$

$.(9).60 \times 16$

$(9).60 \times 16$

$(9).60$

conversion of decimal into hexadecimal
of $(4237.10)_{10} \longrightarrow (108D.19999A)_{16}$

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4) conversion into base 5

$(4237.10)_{10} \longrightarrow (?)_5$

5	4237
5	847 - 2
5	169 - 2
5	33 - 4
5	6 - 3
	1 - 1

$1134\,22.02222\ldots$

0.10×5

$⓪.50 \times 5$

$②.50 \times 5$

$②.50 \times 5$

$②.50 \times 5$

$②.50$

conversion into base 5 of decimal is

$(4237.10)_{10} \longrightarrow (11342\,2.02222\ldots)_5$