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Ans (1)

(a) Machine Gauge and Pitch

→ The no. of element present in the unit length is called Machine Gauge

The pitch determines the yarn count or yarn thickness

(b) Racking and loop Transfer

(c) Tuck loop

A tuck stitch is composed of a held loop

it is produced when a needle holding it's loop also receive the new loop

Held loop

A held loop is an old loop that the needle has retained.

A held loop can only be retained by needle for a limited number of knitting cycles.

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Ans (2) Needles = 60

machine gauge = 10

length = 10 inch

breadth = 5 inch

(c) Course/inch = 10, Wales/inch = 60/5 = 12

loop length = 2 inch

$K_c = C^2 l$ -- (l = loop length)

$\Rightarrow K_c = 10 \times 2 = 20$

$K_w = 12 \times 2 = 24$

$K_s = K_c \times K_w = 20 \times 24 = 480$

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Ans-3 No. of feeders (N) = 32

Speed (r) = 20rpm

courses/inch (C) = 28

$$P_{(m/h)} = \frac{\pi N E \times 1.524}{C \times 100}$$

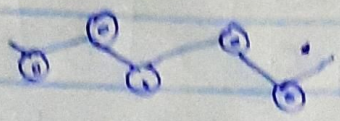
$$\text{efficiency } (E) = 100 - \frac{3}{60} \times 100 = 95\%$$

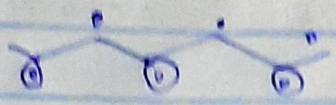
$\Rightarrow$ One hour Production : $\frac{20 \times 32 \times 95 \times 1.524}{28 \times 100}$

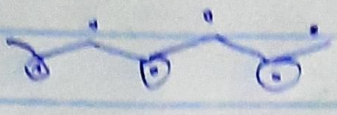
$\Rightarrow$ four hour = $\frac{4 \times 20 \times 32 \times 95 \times 1.524}{28 \times 100}$

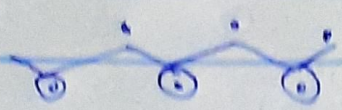
$\Rightarrow$ 132.37 m Ans

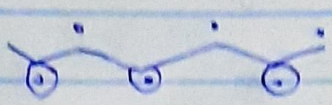
Ans- 1 (A) Point Notation

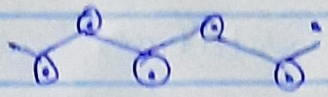
8 

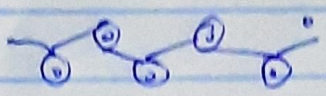
7 

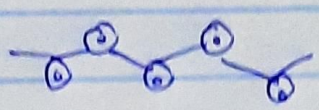
6 

5 

4 

3 

2 

1 

Box Notation

| | | | | | |
|---|---|---|---|---|---|
| 8 | x | o | x | o | x |
| 7 | x | | x | | x |
| 6 | x | | x | | x |
| 5 | x | | x | | x |
| 4 | x | | x | | x |
| 3 | x | o | x | o | x |
| 2 | x | o | x | o | x |
| 1 | x | o | x | o | x |

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Ans 4 (B)

| | | | | | |
|---|---|---|---|---|---|
| 3 | X | O | X | O | X |
| 2 | . | O | . | O | . |
| 1 | X | O | X | O | X |

Box Notation

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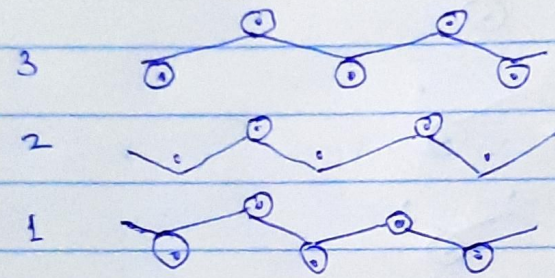


Point Notation