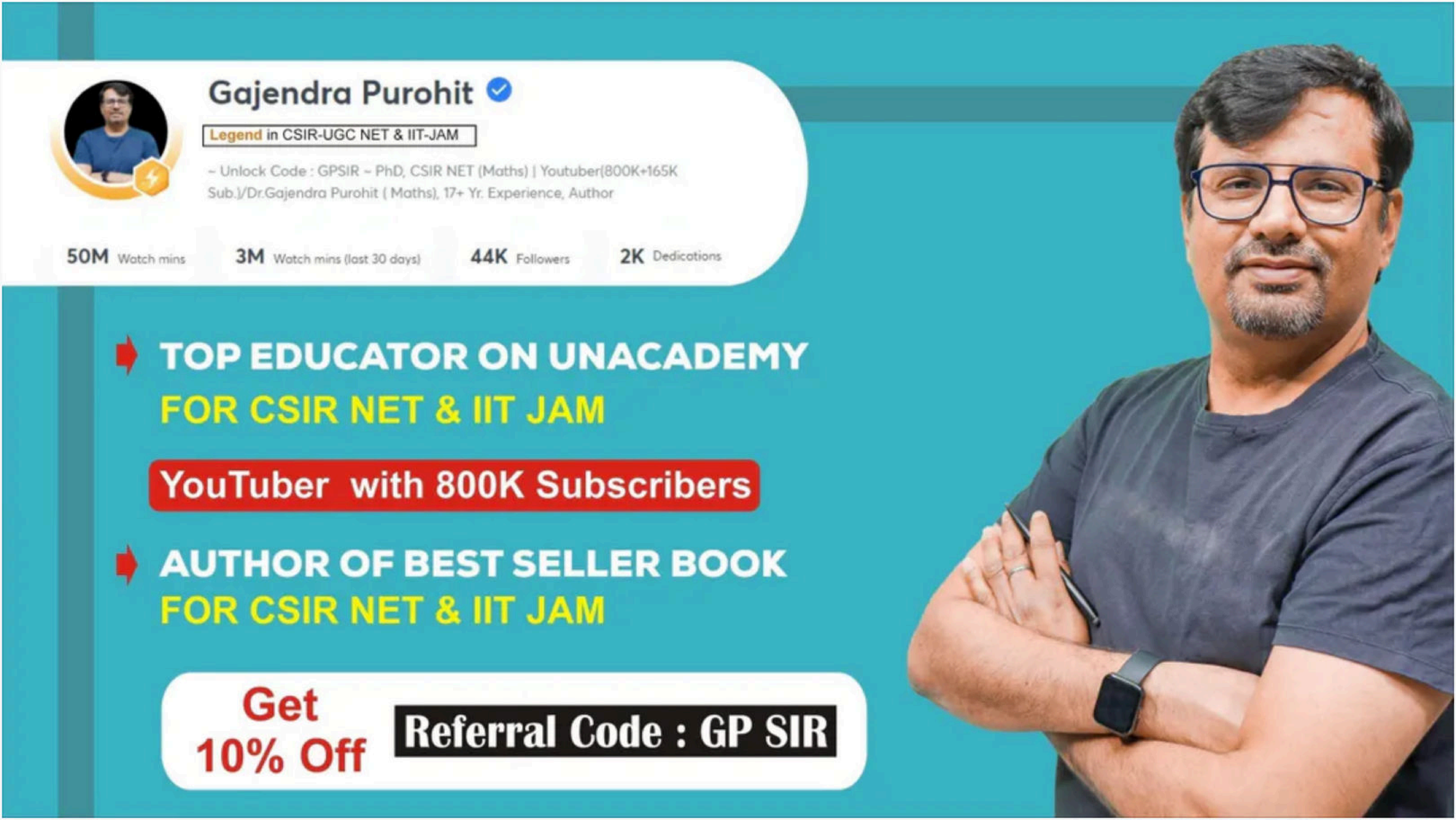
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**Automorphism :** Let G be a group, then the mapping $f : G \to G$ is called automorphism if

(i) f is one-one
(ii) f is onto
(iii) f is homomorphism

i.e. A mapping $f : G \to G$ is called automorphism if it is isomorphism

**Note :** Let Z = group of integer under addition then $f : Z \to Z$ s.t. $f(x) = mx$; $m \neq \{1, -1\}$

Then it will not be onto mapping.

So, it will not be automorphism.

$\Rightarrow$ Z have only two automorphism.

**Automorphism Group :**

Let G be a group, then the set of all automorphism of G form a group under the composition of mapping and this is denoted by Aut G.

**Q1.** For any group G, Aut(G) denote the group of automorphism of G. Which of the following are true?

(a) If G is finite, then Aut(G) is finite

(b) If G is cyclic, then Aut(G) is cyclic

(c) If G is infinite, then Aut(G) is infinite

(d) If Aut (G) is isomorphic to Aut(H) then G is isomorphic to H.

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**Q2.** Let $G = Z_3 \times Z_3$ be a group then order of $\text{Aut}(Z_3 \times Z_3)$ is

(a) 48 (b) 168

(c) 50 (d) 150

**Q3.** The order of $Aut(Aut(Aut(K_4)))$ is

(a) 4 (b) 5

(c) 6 (d) 8

## Group Homomorphism

## Counting of homomorphism :

$f : S_4 \longrightarrow K_4$

$S_4$

$e \quad K_4 \quad A_4 \quad S_4$

Homo = 4

one-one = 0

onto = 0

(i) $\frac{S_4}{(e)} \cong S_4 \nsubseteq K_4$ ✗

(ii) $\frac{S_4}{K_4} \cong S_3 \nsubseteq K_4$ ✗

(iii) $\frac{S_4}{A_4} \cong Z_2 < K_4$

$o(Aut(Z_2)) = 1 = n_1$

$n_2 = 3$

$n_3 = 1$

(iv) $\frac{S_4}{S_4} \cong Z_1 < K_4 \quad n_1 n_2 n_3 = 1 \times 3 \times 1 = 3$

$n_1 = o(Aut\ Z_1) = 1, \quad n_2 = 1, \quad n_3 = 1 \quad = 1$

$f : S_3 \longrightarrow \mathbb{Z}_2$

$S_3$

$\langle e \rangle \quad A_3 \quad S_3$

(i) $\dfrac{S_3}{\langle e \rangle} \cong S_3 \not\subset \mathbb{Z}_2$

(ii) $\dfrac{S_3}{A_3} \cong \mathbb{Z}_2 \subset \mathbb{Z}_2$

$o(\mathrm{Aut}(\mathbb{Z}_2)) = 1$ ✓

(iii) $\dfrac{S_3}{S_3} \cong \mathbb{Z}_1 \subset \mathbb{Z}_2$

$o(\mathrm{Aut}(\mathbb{Z}_1)) = 1$ ✓

$f : S_3 \longrightarrow \mathbb{Z}_7$

(i) $\dfrac{S_3}{(e)} \cong S_3 \not\subset \mathbb{Z}_7$

(ii) $\dfrac{S_3}{A_3} \cong \mathbb{Z}_2 \not\subset \mathbb{Z}_7$

(iii) $\dfrac{S_3}{S_3} \cong \mathbb{Z}_1 \subset \mathbb{Z}_7$

$o(\mathrm{Aut}\,\mathbb{Z}_1) = 1$

Homo from $f: S_n \longrightarrow Z_m$

$$= \begin{cases} 2 & m \text{ even} \\ 1 & m\text{ - odd} \end{cases}$$

one-one $= 0$

onto Homo $= \begin{cases} 1 & m = 1, 2 \\ 0 & m > 2 \end{cases}$

**Procedure for Counting of homomorphism :**

Let f : G → G' be a homomorphism

(i) Find Normal subgroup of G namely $H_1$ , $H_2$ , etc.

(ii) Using FTH

$$\frac{G}{H_i} = f(G) \text{ which is subgroup of G'}$$

(iii) Find Aut(f(G))

(iv) During all the above steps, we have collected three numbers, $n_1$ the number of normal subgroup ($H_i$) in G , $n_2$ number of subgroup(f(G)) in G' , $n_3$ order of Aut(f(G)) then product of $n_1 n_2 n_3$

(v) Do each step for other $H_i$ and sum all of them

## (1) Counting of group homomorphism from finite cyclic group to finite cyclic group.

**Result :** Let f : $Z_m \to Z_n$ be a mapping then number of homomorphism are gcd(m, n)

**2. Number of one-one homomorphism from finite cyclic group to finite cyclic group.**

**Result :** Let $f : Z_m \to Z_n$ be a homomorphism then number of one-one homomorphism are $\begin{cases} \phi(m) & if \quad m \mid n \\ 0 & if \quad m \nmid n \end{cases}$.

## (3) Number of onto homomorphism from $Z_m$ to $Z_n$.

**Result :** Let f : $Z_m \to Z_n$ be a homomorphism then number of onto homomorphism are $\begin{cases} \phi(n) & if\ n \mid m \\ 0 & if\ n \nmid m \end{cases}$.

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(4) Counting of group homomorphism from $S_4$ to $K_4$.

(5) Counting of one – one group homomorphism from $S_4$ to $K_4$.

(6) Counting of onto group homomorphism from $S_4$ to $K_4$.

**Homomorphism**

1. Counting of homomorphism from $S_n \to Z_m$, $(n \geq 3)$

   1. Number of homomorphism $\begin{cases} 1, & m \text{ is odd} \\ 2, & m \text{ is even} \end{cases}$

   2. Number of onto homomorphism $\begin{cases} 1, & m = 1,2 \\ 0, & \text{otherwise} \end{cases}$.

   3. Number of one-one homomorphism does not exist.

2. Counting of homomorphism from $A_4 \to Z_m$

1. Number of homomorphism are $\begin{cases} 3 & \text{if } 3 \mid m \\ 1 & \text{if } 3 \nmid m \end{cases}$

2. Number of onto homomorphisms are $\begin{cases} 1 & \text{if } m = 1 \\ 2 & \text{if } m = 3 \\ 0 & \text{otherwise} \end{cases}$

3. Number of one-one homomorphism does not exist.

$f : A_4 \to Z_3$

(i) $\frac{A_4}{\{e\}} = A_4 \not\subset Z_4$

(ii) $\frac{A_4}{K_4} \simeq Z_3 \subset Z_3$

$\cancel{o(Aut(Z_3)) = 2}$

(iii) $\frac{A_4}{A_4} = Z_1 \subset Z_3$

$o(Aut(Z_1)) = 1$

$A_4$

$\{e\}$ $K_4$ $A_4$

$f: A_5 \longrightarrow \mathbb{Z}_6$

$A_5$

$\{e\} \qquad A_5$

(I) $\dfrac{A_5}{\{e\}} \cong A_5 \not\subset \mathbb{Z}_6$

(II) $\dfrac{A_5}{A_5} = \{e\} \subset \mathbb{Z}_6$

3. Counting of homomorphism from $A_n \to Z_m$, $(n \geq 5)$

1. Number of homomorphism only trivial.

2. Number of onto homomorphisms are $\begin{cases} 1 & if \quad m=1 \\ 0 & if \quad otherwise \end{cases}$

3. Number of one-one homomorphism does not exist.

4. Counting of homomorphism from $K_4 \to Z_m$

1. Number of homomorphism are $\begin{cases} 4, & m \text{ is even} \\ 1, & m \text{ is odd} \end{cases}$

2. Number of onto homomorphisms are $\begin{cases} 1, & m=1 \\ 3, & m=2 \\ 0, & otherwise \end{cases}$.

3. Number of one-one homomorphism does not exists.

$$f : K_4 \longrightarrow \mathbb{Z}_5$$

$$K_4 \to e,\quad H_1,\quad H_2,\quad H_3,\quad K_4$$

(i) $\dfrac{K_4}{(e)} = K_4 \not\subset \mathbb{Z}_5$

(ii) $\dfrac{K_4}{H_1} \cong \underline{\mathbb{Z}_2} \not\subset \mathbb{Z}_5$

(iii) $\dfrac{K_4}{K_4} \cong \mathbb{Z}_1 < \mathbb{Z}_5$

$O(\mathrm{Aut}(\mathbb{Z}_1)) = 1$

---

$$f : K_4 \longrightarrow \mathbb{Z}_6$$

(i) $\dfrac{K_4}{(e)} = K_4 \not\subset \mathbb{Z}_6$

(ii) $\dfrac{K_4}{\mathbb{Z}_2} = \mathbb{Z}_2 < \mathbb{Z}_6$

$O(\mathrm{Aut}(\mathbb{Z}_2)) = 1$

$n_1 = 1,\ n_2 = 1,\ n_3 = 3$

$n_1 n_2 n_3 = 3$

(iii) $\dfrac{K_4}{K_4} = \mathbb{Z}_1 < \mathbb{Z}_6$

$O(\mathrm{Aut}(\mathbb{Z}_1)) = 1$

$f: Q_8 \to \mathbb{Z}_6$

$Q_8$: $\mathbb{Z}_1(e)$, $\mathbb{Z}_2$, $\mathbb{Z}_4$ (3), $Q_8$

(I) $\dfrac{Q_8}{\mathbb{Z}_1} = Q_8 \not\subset \mathbb{Z}_6$

(II) $\dfrac{Q_8}{\mathbb{Z}_2} = K_4 \not\subset \mathbb{Z}_6$

(III) $\dfrac{Q_8}{\mathbb{Z}_4} = \mathbb{Z}_2 \subset \mathbb{Z}_6$

$\mathbb{Z}_6$: $\mathbb{Z}_1$, $\mathbb{Z}_3$

$o(\mathrm{Aut}\,\mathbb{Z}_2) = 1 = n_1$

$n_1 = 1$, $n_3 = 3$

$n_1 n_2 n_3 = 3$

(IV) $\dfrac{Q_8}{Q_8} = \mathbb{Z}_1 \subset \mathbb{Z}_6$ $\quad o(\mathrm{Aut}(\mathbb{Z}_1)) = 1$

$f: Q_8 \to \mathbb{Z}_5$

5. Counting of homomorphism from $Q_8 \to Z_m$

1. Number of homomorphisms are $\begin{cases} 4, & m \text{ is even} \\ 1, & m \text{ is odd} \end{cases}$.

2. Number of onto homomorphisms are $\begin{cases} 1, & m = 1 \\ 3, & m = 2 \\ 0, & \text{otherwise} \end{cases}$.

3. Number of one-one homomorphism does not exists.

6. Counting of homomorphism from $S_n \to K_4$, $(n \geq 3)$

1. Number of homomorphism are 4.

2. Number of onto homomorphism does not exist.

3. Number of one-one homomorphism does not exist.

7. Counting of homomorphism from $S_n \to Q_8$, $n \geq 3$.

1. Number of homomorphism are 2.
2. Number of onto homomorphism does not exist.
3. Number of one-one homomorphism does not exist

**Q.1.** The number of group homomorphism from the cyclic group $Z_4$ to the cyclic group $Z_7$ is

(a) homomorphism (b) isomorphism

(c) unique homomorphism (d) None of these

**Q.2.** The number of homomorphism from $Z_4$ to $Z_{12}$ is

(a) 4 (b) 3

(c) 48 (d) 12

**Q.3.** Let G be the cyclic group of order 8 and H = $S_3$ be the permutation group of 3 elements.

$Z_1, Z_2, Z_4, Z_8$

$\frac{Z_8}{Z_1} = Z_8 \notin S_3$

$f : Z_8 \to S_3$

$\frac{Z_8}{Z_4} = Z_2 = S_3$

3

$\frac{Z_8}{Z_8} = Z_1 < S_3$

1

Which of the following statements are necessarily true?

(a) There exists no non-trivial group homomorphism from G to H

(b) There exists no injective group homomorphism from G to H

(c) There exists no surjective group homomorphism from G to H

(d) There are more than 20 different group homomorphism from G to H

There exist onto Hom.

(a) $f: S_5 \longrightarrow S_4$

(b) $f: S_4 \longrightarrow S_2$

(c) $f: S_5 \longrightarrow \mathbb{Z}_5$

(d) $f: S_4 \longrightarrow \mathbb{Z}_4$

$S_5$

$e \quad A_5 \quad S_5$

$\dfrac{S_4}{A_4} \cong \mathbb{Z}_2$

$S_4 \qquad S_4$

$e \quad K_4 \quad \mathbb{Z}_2$

$S_4$

$A_4 \quad \mathbb{Z}_3$

$S_4$

Q ==

$\mathbb{Z}_9$ and $\mathbb{Z}_3 \times \mathbb{Z}_3$ are

$\gcd(3,3)=3$

(a) isomorphic

(b) abelian

(c) non-abelian

(d) cyclic

cyclic

abelian

$\cancel{H = \mathbb{Z}_2 \times \mathbb{Z}_6}$ | $K = \mathbb{Z}_3 \times \mathbb{Z}_4$ $\cancel{\mathbb{Z}_{12}}$

(a) $H \cong K$ $\because$ both are cyclic

(b) $H \cong K$ $\because$ 2 divides 6 & gcd(3, 4) = 1

(c) $H \ncong K$ $\because$ K is cyclic but H not

(d) $H \ncong K$ $\because$ There is no homo from H to K

$\cancel{K_4 \cong \mathbb{Z}_4}$

$$f : \mathbb{Z}_m \times \mathbb{Z}_n \longrightarrow \mathbb{Z}_\ell$$

$$\gcd(m, \ell) \times \gcd(n, \ell)$$

$$f : \mathbb{Z}_2 \times \mathbb{Z}_4 \longrightarrow \mathbb{Z}_{10} \qquad \gcd(2,10)\,\gcd(4,10)$$

$$2 \times 2$$

$$4$$

$$f : \mathbb{Z}_m \times \mathbb{Z}_n \longrightarrow \mathbb{Z}_p \times \mathbb{Z}_q$$

$\gcd(m,p)\ \gcd(m,q)$

$\gcd(n,p)\ \gcd(n,q)$

$$f : \mathbb{Z}_2 \times \mathbb{Z}_4 \longrightarrow \mathbb{Z}_3 \times \mathbb{Z}_6$$

$\gcd\underline{(2,3)}\ \gcd(2,6)\ \gcd\underline{(4,3)}\ \gcd\underline{(4,6)}$

$\underline{1 \times 2 \times 1 \times 2 = 4}$

$f: \mathbb{Z}_4 \times \mathbb{Z}_3 \longrightarrow \mathbb{Z}_2 \times \mathbb{Z}_2 \times \mathbb{Z}_3$

$S_{10} \longrightarrow S_{15}$

$(1,3)\quad (4,2)\quad (4,3)$

$(3,2)\quad (3,2)\quad (3,1)$

$2 \times 2 \times 3$

$12$

$f: \mathbb{Z}_{12} \longrightarrow \mathbb{Z}_{12}$

**Q.4.** The number of homomorphism from $S_5$ to $Z_5$

(a) 1 (b) 2

(c) 3 (d) 4

**Q.5.** The number of onto homomorphism from $Z_8$ to $Z_4$

(a) 1 (b) 2

(c) 3 (d) 4

**Q.6.** The number of onto homomorphism from $Q_8$ to $Z_2$

(a) 1
(b) 2
(c) 3
(d) 4

**Q.7.** The number of onto homomorphism from $Z_{200}$ to $Z_{100}$

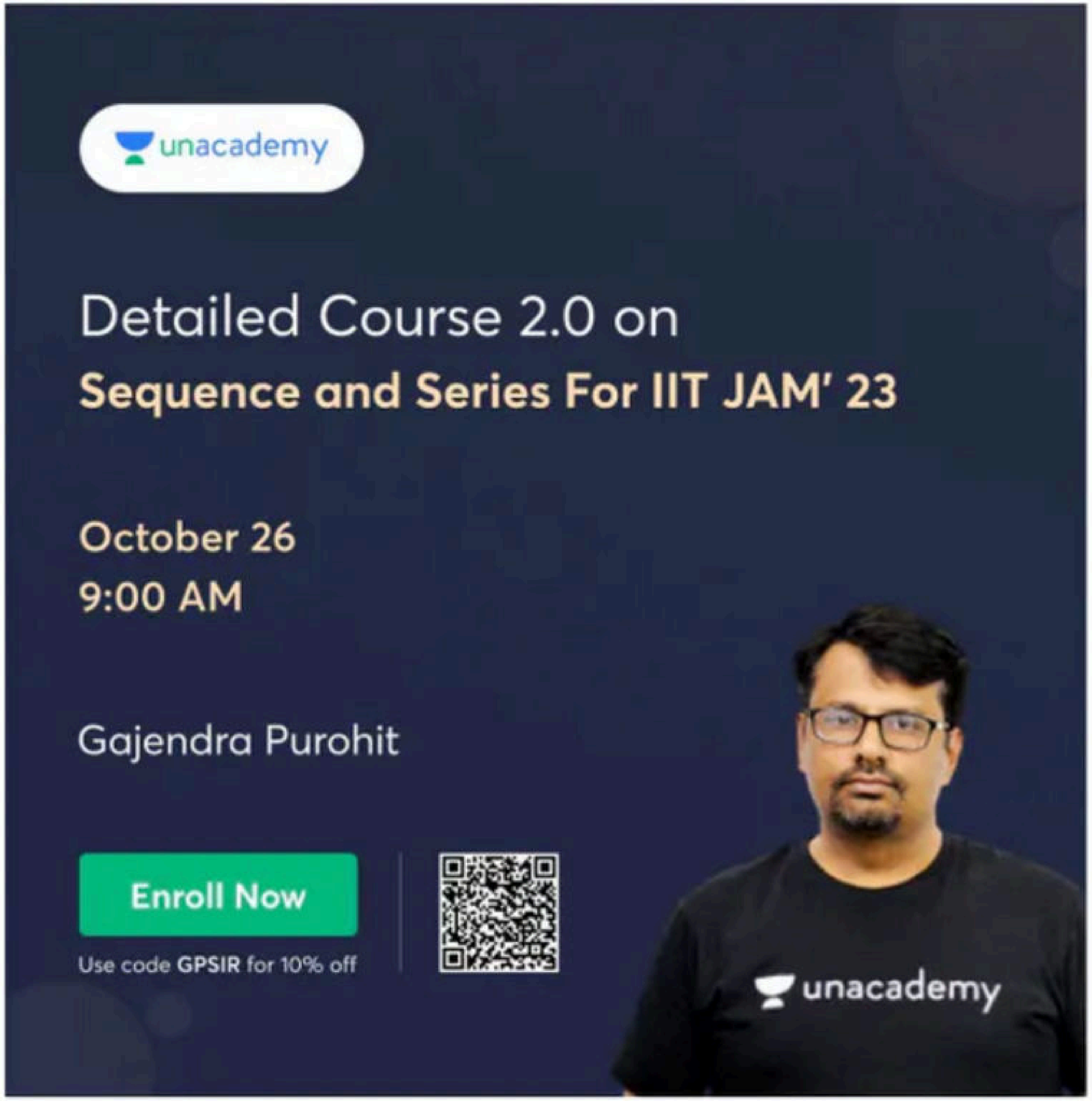
(a) 46 (b) 42

(c) 40 (d) 38

**Q.8.** The number of group homomorphisms from to $Z_{10}$ is $Z_{20}$

(a) zero (b) one

(c) five (d) ten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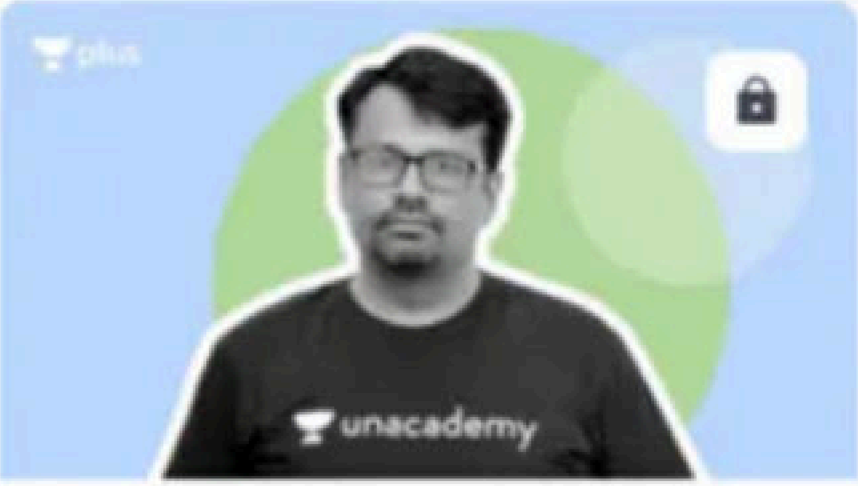


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### Educator highlights

- Works at **Pacific Science College**
- Studied at **M.Sc., NET, PhD(Algebra), MBA(Finance), BEd**
- PhD, NET | Plus Educator For CSIR NET | Youtuber (260K+Subs.) | Director Pacific Science College |
- Lives in **Udaipur, Rajasthan, India**
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