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OPSC ASO Previous Year Question

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20 Selected Questions (2014 – 2025) with Full Solutions



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OPSC ASO – 20 SELECTED PYQ

Hand-picked from OPSC ASO papers of 2014, 2015, 2019, 2022 and AG ASO 2025 – English, GK, Math, Odia and Reasoning – 7 Easy, 9 Moderate and 4 Hard, with the same step-by-step solutions you get in the full pack.

EASY QUESTIONS

Q-1 The value of k, if $(x-1)$ is a factor of $4x^3+3x^2-4x+k$ is :
[OPSC ASO 2014]
(A) 0
(B) -1
(C) -2
(D) -3

ANS- (D) -3

Given:
➔ $p(x) = 4x^3+3x^2-4x+k$
➔ $(x-1)$ is a factor

Concept:
➔ Factor theorem: $(x-a)$ is a factor of $p(x) \Leftrightarrow p(a)=0$

Solution:
$\rightarrow\ p(1)=0$
$\Rightarrow\ 4(1)^3+3(1)^2-4(1)+k=0$
$\Rightarrow\ 4+3-4+k=0$
$\Rightarrow\ k=-3$
∴ Ans: (D) -3

Hint:
➔ Check: $p(1)=4+3-4-3=0$

Q-2 The fourth proportional to 5, 8, 15 is:
[OPSC ASO 2022]
(A) 18
(B) 21
(C) 19
(D) 24

Ans- (D) 24

Given:

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➔ Numbers: 5, 8, 15

Concept:

➔ If $a : b = c : d$, then d is the fourth proportional.

➔ $d = \frac{b \times c}{a}$

Solution:

→ $d = \frac{8 \times 15}{5} = 24$

→ Check: $\frac{5}{8} = \frac{15}{24}$

∴ Ans: (D) 24

Q-3 Change into passive: The salt-water corroded the metal beams. The metal beams _____ by the salt-water.

[OPSC ASO 2022]

(A) was corroded
(B) corroded
(C) has corroded
(D) were corroded

Ans- (D) were corroded

Explanation: The metal beams **were corroded** by the salt-water. ମୂଳ ବାକ୍ୟ **"The salt-water corroded the metal beams" Simple Past (V2)** ରେ ଅଛି । Passive ରେ **Object (the metal beams)** ଆଗକୁ ଆସେ, ଯାହା **Plural (ବହୁବଚନ)**, ତେଣୁ **"were"** ଓ ତା'ପରେ **V3 (corroded)** ବସିବ । **"Corrode"** ର ଅର୍ଥ **"କଳଙ୍କି ଧରି କ୍ଷୟ ହେବା"** । **Simple Past Passive: Object + was / were + V3 + by + Subject.**

Trick: Active ର **Tense** ଚିହ୍ନ, ତା'ପରେ ନୂଆ Subject ର **ବଚନ** ଦେଖ:

Tense (Active)	Passive Form
Simple Past (V2) - corroded	**was / were + V3** (Plural ପାଇଁ **were**)
Simple Present (V1 / V1 + s)	is / am / are + V3
Present Perfect	has / have + been + V3
Past Perfect	had + been + V3

ମନେ ରଖ: Continuous ରେ **being**, Perfect ରେ **been**, Modal ରେ **be** ବସେ ।

Other Options:

(A) was corroded — **"was" Singular (ଏକବଚନ)** Subject ସହ ବସେ, ଯେପରି **The metal beam was corroded.**

(B) corroded — ଏହା **Active Voice (Simple Past)** ର Verb, Passive ର **be + V3** ଢାଞ୍ଚା ।

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ଏଥିରେ ନାହିଁ ।

(C) has corroded — ଏହା **Active Voice (Present Perfect)**, ଯେପରି **The salt-water has corroded the beam.**

Q-4 The house looked _____ as it had an unwelcoming and unattractive air about it.

[OPSC AG ASO 2025]

(A) bleak
(B) pleasant
(C) engaging
(D) enticing

ANS- (A) bleak

Explanation: The house looked **bleak** as it had an unwelcoming and unattractive air about it. ଏଠାରେ **"as"** ର ଅର୍ଥ **"କାରଣ"**, ଏବଂ କାରଣଟି ହେଉଛି **"unwelcoming and unattractive"** (ଅନାଦରଣୀୟ ଓ ଅସୁନ୍ଦର) । ତେଣୁ ଖାଲି ସ୍ଥାନରେ ଏକ ନକାରାତ୍ମକ **(negative)** ଶବ୍ଦ ଆସିବ: **"bleak"**, ଅର୍ଥ **"ନିରସ"** ବା **"ଉଦାସ ଦେଖାଯାଉଥିବା"** । **Bleak means cold, empty and cheerless.**

Trick: ବାକ୍ୟରେ **Clue Word (ଇଙ୍ଗିତ ଶବ୍ଦ)** ଖୋଜ, ତା'ପରେ ଉତ୍ତର ମିଳାଅ:

Clue Word	ଇଙ୍ଗିତ	ଉତ୍ତର
unwelcoming + unattractive	ଉଦାସ, ଖରାପ ଦେଖାଯିବା	**bleak** (ନିରସ, ଉଦାସ)
cosy + welcoming	ଭଲ ଲାଗିବା	**pleasant** (ମନୋରମ)

Other Options:

(B) pleasant — ଅର୍ଥ **"ମନୋରମ"** ବା **"ସୁଖଦ"**, ଯେପରି **a pleasant evening** । (ଏଠାରେ ଭାବ ନକାରାତ୍ମକ ହେବ)

(C) engaging — ଅର୍ଥ **"ଆକର୍ଷଣୀୟ"** ବା **"ମନ ମୋହୁଥିବା"**, ଯେପରି **an engaging story** । (ଏଠାରେ ଭାବ ନକାରାତ୍ମକ ହେବ)

(D) enticing — ଅର୍ଥ **"ଲୋଭନୀୟ"** ବା **"ଟାଣି ନେଉଥିବା"**, ଯେପରି **an enticing smell of food** । (ଏଠାରେ ଭାବ ନକାରାତ୍ମକ ହେବ)

Q-5 Where did Babar die ?

[OPSC ASO 2015]

(A) Agra
(B) Kabul
(C) Lahore
(D) Delhi

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Ans- (A) Agra

Explanation: **Babur**, the founder of the **Mughal Empire**, died at **Agra** on **26 December 1530**, aged **47**. He was first buried at Agra, and his body was later taken to **Afghanistan**, as he had wished.

Key Points:
✦ *Memoir:* **Baburnama, written in Chagatai Turkic**
✦ *His wish:* **a plain grave open to the sky**
✦ *Reburial:* **dated between 1539 and 1544**

Other Options:
(B) Kabul — **Bagh-e Babur** there was his favourite of the **ten gardens** he built in and around Kabul, and it holds his tomb.
(C) Lahore — In **1524** Babur marched to Lahore, where **Daulat Khan** had already been driven out by **Ibrahim Lodi's** forces.
(D) Delhi — The Sultan of Delhi, **Ibrahim Lodi**, lost to Babur at the **First Battle of Panipat** on **21 April 1526**.

Q-6 ଯାହା ସାହାଯ୍ୟରେ କ୍ରିୟା ସାଧିତ ହୁଏ ତାହା_____ କାରକ ।

[OPSC AG ASO 2025]

(A) କରଣ

(B) ଅପାଦାନ

(C) ଅଧିକରଣ

(D) କର୍ତ୍ତା

ANS- (A) କରଣ

Explanation: କ୍ରିୟା ସାଧନ ପାଇଁ କର୍ତ୍ତାର ଯେଉଁ **ପ୍ରଧାନ ସହାୟକ ବା ସାଧନ**, ତାହା **କରଣ କାରକ** । ଯେପରି **ସ୍ୱାଗତିକା ତୂଳୀରେ ଚିତ୍ର ଆଙ୍କୁଛି** । ଏଠାରେ **'କାହା ଦ୍ୱାରା ଆଙ୍କୁଛି ?'** ଉତ୍ତର **ତୂଳୀରେ** । କରଣରେ ସାଧାରଣତଃ **ତୃତୀୟା ବିଭକ୍ତି (ରେ, ଦ୍ୱାରା, ଦେଇ)** ଲାଗେ ।

Trick: କ୍ରିୟାକୁ ପ୍ରଶ୍ନ ପଚାର:

କାରକ	ପ୍ରଶ୍ନ	ଉଦାହରଣ	ବିଭକ୍ତି
କରଣ	କାହା ଦ୍ୱାରା / କେଉଁଥିରେ ?	ତୂଳୀରେ ଚିତ୍ର ଆଙ୍କୁଛି ।	ତୃତୀୟା
ଅପାଦାନ	କେଉଁଠୁ ?	ନଳକୂଅରୁ ପାଣି ଆଣିଲା ।	ପଞ୍ଚମୀ
ଅଧିକରଣ	କେଉଁଠି / କେବେ ?	ନଦୀକୂଳରେ ପବନ ବହେ ।	ସପ୍ତମୀ
କର୍ତ୍ତା	କିଏ / କ'ଣ ?	ଛାତ୍ର ବ୍ୟାକରଣ ପଢୁଛି ।	ପ୍ରଥମା

ମନେ ରଖ: ସାହାଯ୍ୟ = ସାଧନ = କରଣ ।

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Other Options:

(B) ଅପାଦାନ — ଯାହାଠାରୁ **ପୃଥକ୍** ହେବା ବୁଝାଏ, ଯେପରି **ଗଛରୁ** ପତ୍ର ପଡ଼ିଲା ।

(C) ଅଧିକରଣ — କ୍ରିୟାର **ସ୍ଥାନ ଓ ସମୟ** ବୁଝାଏ, ଯେପରି **ଶରତ୍‌ଋତୁରେ** ଆକାଶ ନିର୍ମଳ ଦିଶେ ।

(D) କର୍ତ୍ତା — ଯେ ନିଜେ **କ୍ରିୟା ସମ୍ପାଦନ** କରେ, ଯେପରି **ଗାୟତ୍ରୀ** ଗୀତ ଗାଉଛି ।

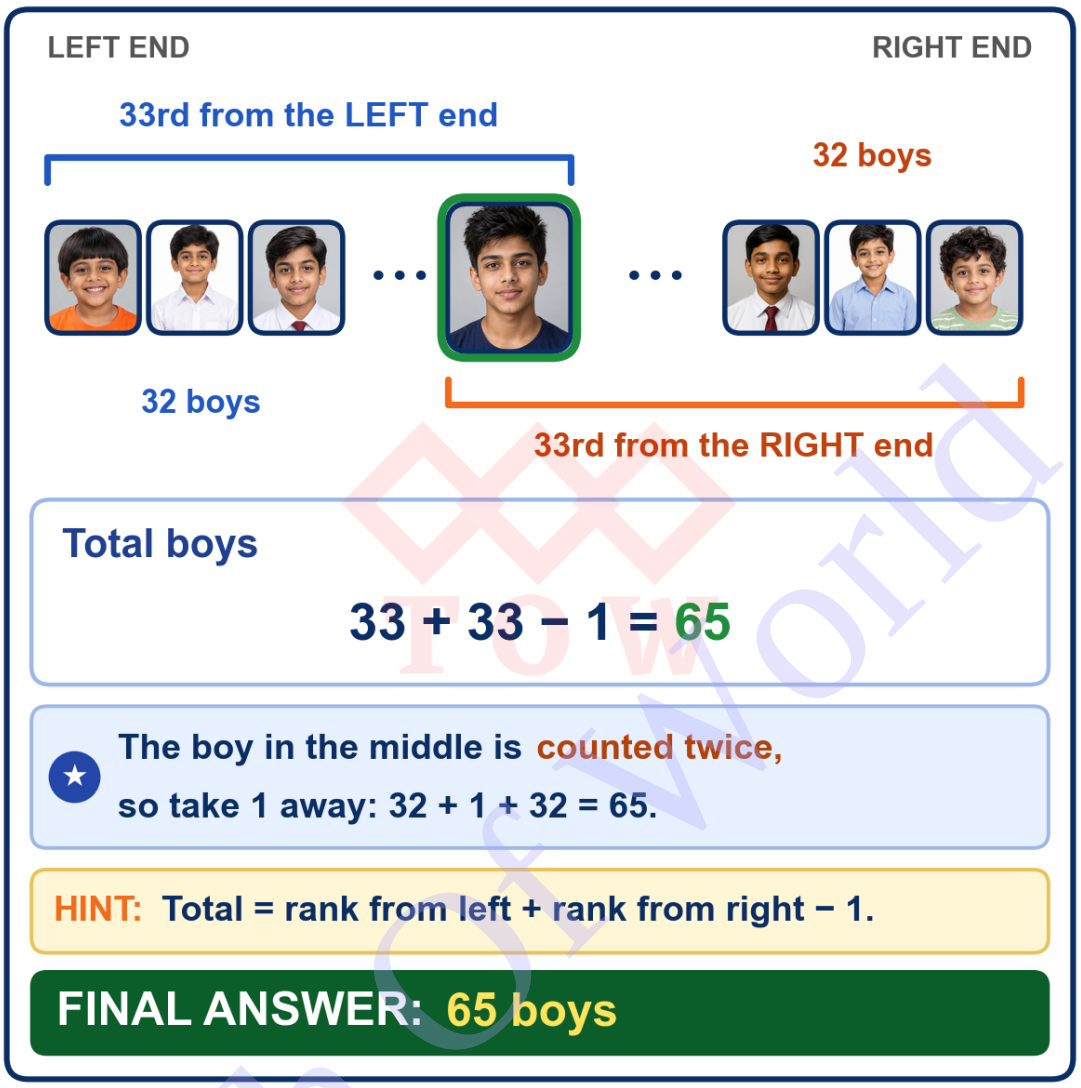
Q-7 A class of boys is standing in only one row. A boy is at thirty third position from both the ends in this sequence.
How many boys are there in the class?
[OPSC AG ASO 2025]

(A) 64
(B) 65
(C) 69
(D) 66

ANS- (B) 65

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MODERATE QUESTIONS

Q-8 If each side of a square is increased by 25%, find the percentage change in its area.

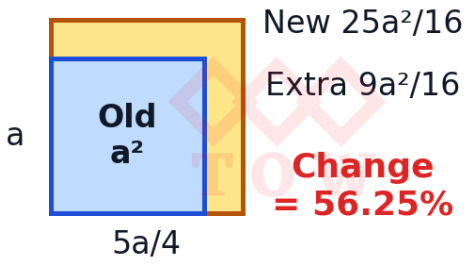
[OPSC AG ASO 2025]

(A) 55.28%
(B) 56.25%
(C) 57.25%
(D) 58.36%

ANS- (B) 56.25%

Given:
➔ Each side is increased by 25%

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Concept:

➔ Area of square $= (\text{side})^2$

➔ Percentage change $= \dfrac{\text{new} - \text{old}}{\text{old}} \times 100$

Solution:

→ Old side $= a$, old area $= a^2$

→ New side $= a + \dfrac{25}{100}a = \dfrac{5a}{4}$

→ New area $= \left(\dfrac{5a}{4}\right)^2 = \dfrac{25a^2}{16}$

→ Change $= \dfrac{\frac{25a^2}{16} - a^2}{a^2} \times 100 = \dfrac{9}{16} \times 100 = 56.25\%$

∴ Ans: (B) 56.25%

Hint:

➔ Alternative: for $x\%$ rise in the side, area change $= x + x + \dfrac{x \times x}{100} = 25 + 25 + 6.25 = 56.25\%$

Q-9 A computer company must have 20 programmers to handle system programming jobs and 30 programmers for application programming. Of those hired, 5 are expected to perform jobs of both types. How many programmers must be hired?

[OPSC ASO 2019]

(A) 50
(B) 45
(C) 35
(D) 25

Ans- (B) 45

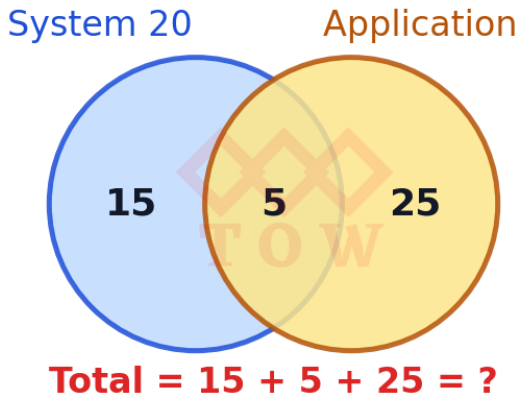
Given:

➔ S = system programmers, A = application programmers, total hired $= n(S \cup A) = ?$

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➔ $n(S) = 20,\ n(A) = 30,\ n(S \cap A) = 5$



Concept:

➔ $n(S \cup A) = n(S) + n(A) - n(S \cap A)$

➔ The 5 who do both jobs are counted in both groups, so subtract them once.

Solution:

→ $n(S \cup A) = 20 + 30 - 5 = 45$

∴ Ans: (B) 45

Hint:

➔ Trap: $20 + 30 = 50$ counts the 5 people twice, so 50 is wrong.

➔ Alternative: only system $= 20 - 5 = 15$, only application $= 30 - 5 = 25$, so total $= 15 + 5 + 25 = 45$.

Q-10 In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
[OPSC ASO 2019]

(A) MFEDJJOE
(B) EOJDEJFM
(C) MFEJDJOE
(D) EOJDJEFM

Ans- (D) EOJDJEFM

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COMPUTER → **RETUPMOC**

Step 1: write the word backwards

R	E	T	U	P	M	O	C
0	+1	+1	+1	+1	+1	+1	0
R	F	U	V	Q	N	P	C

Step 2: ends stay, inside letters +1

MEDICINE → **ENICIDEM**

E	N	I	C	I	D	E	M
0	+1	+1	+1	+1	+1	+1	0
E	O	J	D	J	E	F	M

HINT: Reverse first, then move only the inside letters one step forward.

HINT: The first and last letters of the reversed word do not change.

FINAL ANSWER: MEDICINE = EOJDJEFM

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Q-11 There are deer and peacocks in a zoo.
By counting heads they are 80.
The number of their legs is 200.



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How many peacocks are there?

[OPSC ASO 2022]

(A) 20
(B) 30
(C) 50
(D) 60

Ans- (D) 60

Given:
➔ Let d = deer and p = peacocks; heads: $d + p = 80$
➔ Legs: $4d + 2p = 200$

Concept:
➔ A deer has 4 legs and a peacock has 2 legs

Solution:
→ If all 80 were peacocks, legs $= 80 \times 2 = 160$
→ Extra legs $= 200 - 160 = 40$
→ Each deer adds $4 - 2 = 2$ extra legs
$\Rightarrow \ d = \frac{40}{2} = 20$
$\rightarrow \ p = 80 - 20 = 60$
∴ Ans: (D) 60

Hint:
➔ Alternative: if all 80 were deer, legs $= 80 \times 4 = 320$; extra $= 320 - 200 = 120$, and each peacock has 2 legs fewer, so peacocks $= \frac{120}{2} = 60$

Q-12 By this time in 2019, Susan _____ finished her first degree in Medicine.

[OPSC ASO 2019]

(A) will be
(B) will have
(C) might have
(D) may be

ANS- (B) will have

Explanation: By this time in 2019, Susan **will have** finished her first degree in Medicine. **"By this time in 2019"** ଭବିଷ୍ୟତର ଏକ **ସମୟ ସୀମା (deadline)** ଦେଖାଏ, ଅର୍ଥାତ୍ ସେହି ସମୟ **ପୂର୍ବରୁ** କାମଟି **ଶେଷ** ହୋଇସାରିଥିବ । ଏପରି ସ୍ଥଳରେ **Future Perfect (will have + V3)** ବସେ, ଆଉ

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ଏଠାରେ **finished** ହେଉଛି V3 । **"By + a future time" takes the Future Perfect: will have + V3.**

Trick: **Time clue** ଦେଖି Tense ବାଛ:

Time clue	Tense	Example
by this time next year / by 2030 / by then	**Future Perfect (will have + V3)**	She **will have finished** by then.
tomorrow, next week	Simple Future (will + V1)	She **will finish** tomorrow.
at this time tomorrow	Future Continuous (will be + V-ing)	She **will be studying** at 5 p.m.
by the time + past event	Past Perfect (had + V3)	She **had finished** by last year.

Other Options:

(A) will be — **will be + V-ing** ହେଲେ **Future Continuous** ହୁଏ, ଯେପରି **She will be studying at 5 p.m.**; **will be + V3** ହେଲେ ବାକ୍ୟ **Passive** ହୁଏ ।

(C) might have — ଏହା **Modal Perfect**, ଅତୀତର **ସମ୍ଭାବନା** ବୁଝାଏ, ଅର୍ଥ **"ହୋଇଥାଇପାରେ"**, ଯେପରି **She might have missed the bus.**

(D) may be — ଅର୍ଥ **"ହୋଇପାରେ"**, ବର୍ତ୍ତମାନର **ସମ୍ଭାବନା** ବୁଝାଏ, ଯେପରି **She may be at home now.**

Q-13 **(P) at the conference (Q) experts will discuss (R) the recent findings (S) on climate change**

[OPSC AG ASO 2025]

(A) QRSP
(B) QSPR
(C) QPSR
(D) RPQS

ANS- (A) QRSP

Full Explanation:

➔ **Q:** experts will discuss – ବାକ୍ୟର **Subject (experts)** ଓ **Verb (will discuss)**, ତେଣୁ ଏହା ପ୍ରଥମ ।

➔ **R:** the recent findings – **"discuss" କଣ ?** ଉତ୍ତର **the recent findings (ନୂଆ ତଥ୍ୟ)**, ତେଣୁ ଏହା **Object** ।

➔ **S:** on climate change – **କେଉଁ ବିଷୟରେ** findings, ତାହା କହୁଛି (**findings on climate change**) ।

➔ **P:** at the conference – **ସ୍ଥାନ (place)** ବୁଝାଉଥିବା ଅଂଶ, ବାକ୍ୟର **ଶେଷରେ** ଆସେ ।

Trick: ପ୍ରଥମ ଅଂଶ ଖୋଜ, ତା'ପରେ option କାଟ:

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ସୋପାନ	କଣ ଦେଖିବା	ଫଳ
1	**Subject + Verb** ଥିବା ଅଂଶ: **Q** (experts will discuss)	Q ରେ ଆରମ୍ଭ: (A) QRSP, (B) QSPR, (C) QPSR
2	**Verb (discuss)** ପରେ Object: **Q → R**	କେବଳ **(A) QRSP**

Q-14 Who / which among the following has been given the power by the Constitution of India to impose 'Reasonable Restrictions' on the Fundamental Rights ?

[OPSC ASO 2022]

(A) President of India
(B) Parliament
(C) Supreme Court
(D) High Courts

Ans- (B) Parliament

Explanation: The Constitution lets **Parliament** make laws that put **reasonable restrictions** on the freedoms in **Article 19**. The grounds are in **Article 19(2) to 19(6)**, such as **public order**, **morality** and the **security of the State**. Whether a restriction is really **reasonable** is decided by the **courts** through **judicial review**. The **1st Amendment** of **1951** added grounds like **public order**.

Key Points:

✦ *Added in 1963:* **16th Amendment added sovereignty and integrity of India as a ground**
✦ *Court check:* **Art 13 makes a law void if it breaks a Fundamental Right**
✦ *Freedoms covered:* **Speech, assembly, union, movement, residence, profession**

Other Options:

(A) President of India — He is the **head of the Union**, elected by an **electoral college** for **5 years** (Art 56).
(C) Supreme Court — It guards **Fundamental Rights** by writs under **Article 32**, which **Dr B. R. Ambedkar** called the **heart and soul** of the Constitution.
(D) High Courts — They issue **writs** under **Article 226** for Fundamental Rights and for other legal rights.

Q-15 Which river crosses the equator twice?

[OPSC AG ASO 2025]

(A) Amazon
(B) Nile
(C) Congo
(D) Niger

ANS- (C) Congo

Explanation: The **Congo River** of Central Africa is the river that crosses the **equator twice**. It first crosses near **Boyoma Falls** (Kisangani), runs north of the line, and then crosses again near **Mbandaka**. Because of this, the river gets **rain in both seasons**, so its flow stays steady all year. It is about **4,700 km** long and enters the **Atlantic Ocean** near Muanda.

Key Points:

✦ *Rank in Africa:* **second longest river after the Nile**
✦ *Depth:* **deepest river in the world, over 220 m**
✦ *Water flow:* **second largest in the world after the Amazon**

Other Options:

(A) Amazon — It touches the equator only near its mouth and flows about **6,400 km** across **Brazil** into the Atlantic.
(B) Nile — It starts from **Lake Victoria** (near Jinja, Uganda) and flows north about **6,650 km** to the **Mediterranean Sea**.
(D) Niger — It makes a big curve through **Guinea, Mali, Niger and Nigeria** (about **4,180 km**) and ends in the **Gulf of Guinea**.

Q-16 'ପ୍ରତ୍ୟହ ଈଶ୍ୱରଙ୍କର ଉପାସନା କରିବା ବିଧେୟ' - ଉକ୍ତ ବାକ୍ୟରେ ବ୍ୟବହୃତ 'ଈଶ୍ୱରଙ୍କର' ପଦରେ କେଉଁ କାରକ ସମ୍ବନ୍ଧ ପ୍ରକାଶିତ ?

[OPSC ASO 2022]

(A) କର୍ତ୍ତୃ

(B) କର୍ମ

(C) କରଣ

(D) ଅପାଦାନ

Ans- (B) କର୍ମ

Explanation: **'ଈଶ୍ୱରଙ୍କର ଉପାସନା'** ର ଅର୍ଥ **ଈଶ୍ୱରଙ୍କୁ ଉପାସନା କରିବା** । ଏଠାରେ **ଈଶ୍ୱର** ଉପାସନା କାମର **କର୍ମ** (ଯାହାଙ୍କୁ ଉପାସନା କରାଯାଏ), ତେଣୁ ଷଷ୍ଠୀ ପଦ **'ଈଶ୍ୱରଙ୍କର'** ରେ **କର୍ମସମ୍ବନ୍ଧ** ପ୍ରକାଶିତ । ସେହିପରି **ପୁରାଣର ଅଧ୍ୟୟନ, ବିଦ୍ୟାର ଅର୍ଜ୍ଜନ** ।

Trick: 'ର / ଙ୍କର' କୁ କାରକ ଚିହ୍ନରେ ବଦଳାଇ ଦେଖ:

ସମ୍ବନ୍ଧ	ଉଦାହରଣ	ବଦଳାଇ ଦେଖ
କର୍ମ	**ଈଶ୍ୱରଙ୍କର ଉପାସନା**	**ଈଶ୍ୱରଙ୍କୁ ଉପାସନା (କାହାକୁ ?)**
କର୍ତ୍ତୃ	ନଦୀର ପ୍ରବାହ	ନଦୀ ପ୍ରବାହିତ ହେଉଛି (କିଏ ?)
କରଣ	ଶରର ଆଘାତ	ଶରଦ୍ୱାରା ଆଘାତ (କାହା ଦ୍ୱାରା ?)
ଅପାଦାନ	ହିଂସ୍ରଜନ୍ତୁର ଭୟ	ହିଂସ୍ରଜନ୍ତୁଠାରୁ ଭୟ (କେଉଁଠୁ ?)

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ମନେ ରଖ: 'ର' କୁ 'କୁ' କଲେ ଅର୍ଥ ଠିକ୍ ରହିଲେ = କର୍ମସମ୍ବନ୍ଧ ।

Other Options:

(A) କର୍ତ୍ତୃ — ଷଷ୍ଠୀ ପଦଟି ନିଜେ କାମ କରେ, ଯେପରି **ନଦୀର ପ୍ରବାହ** (ନଦୀ ପ୍ରବାହିତ ହେଉଛି), **ସୂର୍ଯ୍ୟଙ୍କର କିରଣ** ।

(C) କରଣ — ଷଷ୍ଠୀ ପଦଟି କାମର **ସାଧନ**, ଯେପରି **ଶରର ଆଘାତ** (ଶରଦ୍ୱାରା ଆଘାତ) ।

(D) ଅପାଦାନ — ଷଷ୍ଠୀ ପଦଟିରୁ **ଭୟ ବା ଅଲଗା** ହେବା ବୁଝାଏ, ଯେପରି **ହିଂସ୍ରଜନ୍ତୁର ଭୟ** (ହିଂସ୍ରଜନ୍ତୁଠାରୁ ଭୟ), ସାପର ଡର ।

HARD QUESTIONS

Q-17 The variance of the first n natural numbers is:

[OPSC ASO 2019]

(A) $\frac{n^2-1}{12}$

(B) $\frac{n^2-1}{6}$

(C) $\frac{n^2+1}{6}$

(D) $\frac{n^2+1}{12}$

Ans- (A) $\frac{n^2-1}{12}$

Given:

➔ Numbers 1, 2, 3, …, n

Concept:

➔ $\text{Variance} = \frac{\sum x^2}{n} - \left(\frac{\sum x}{n}\right)^2$

➔ $\sum x = \frac{n(n+1)}{2}, \quad \sum x^2 = \frac{n(n+1)(2n+1)}{6}$

Solution:

→ $\frac{\sum x}{n} = \frac{n+1}{2}, \quad \frac{\sum x^2}{n} = \frac{(n+1)(2n+1)}{6}$

→ $\text{Variance} = \frac{(n+1)(2n+1)}{6} - \frac{(n+1)^2}{4}$

$\Rightarrow \frac{(n+1)[2(2n+1)-3(n+1)]}{12} = \frac{(n+1)(n-1)}{12} = \frac{n^2-1}{12}$

∴ Ans: (A) $\frac{n^2-1}{12}$

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Hint:

➔ Alternative: put $n = 3$: 1,2,3 have mean 2, variance $= \frac{1+0+1}{3} = \frac{2}{3}$

$\Rightarrow \frac{3^2-1}{12} = \frac{8}{12} = \frac{2}{3}$ ✓

Q-18 If x men, working x hours per day, can do x units of work in x days, then y men, working y hours per day would be able to complete how many units of work in y days:

[OPSC AG ASO 2025]

(A) $\frac{x^2}{y^3}$

(B) $\frac{x^3}{y^2}$

(C) $\frac{y^2}{x^3}$

(D) $\frac{y^3}{x^2}$

ANS- (D) $\frac{y^3}{x^2}$

Given:

➔ x men, x hours per day, x days do x units of work

Concept:

➔ Work ∝ men × hours per day × days

Solution:

$\rightarrow x = k\,x \times x \times x = k\,x^3$

$\Rightarrow k = \frac{1}{x^2}$

$\rightarrow \text{Work} = k\,y \times y \times y = \frac{y^3}{x^2}$

∴ Ans: (D) $\frac{y^3}{x^2}$

Q-19 Find the missing number in the following series:

3, 5, 5, 19, 7, 41, 9, ?

[OPSC ASO 2019]

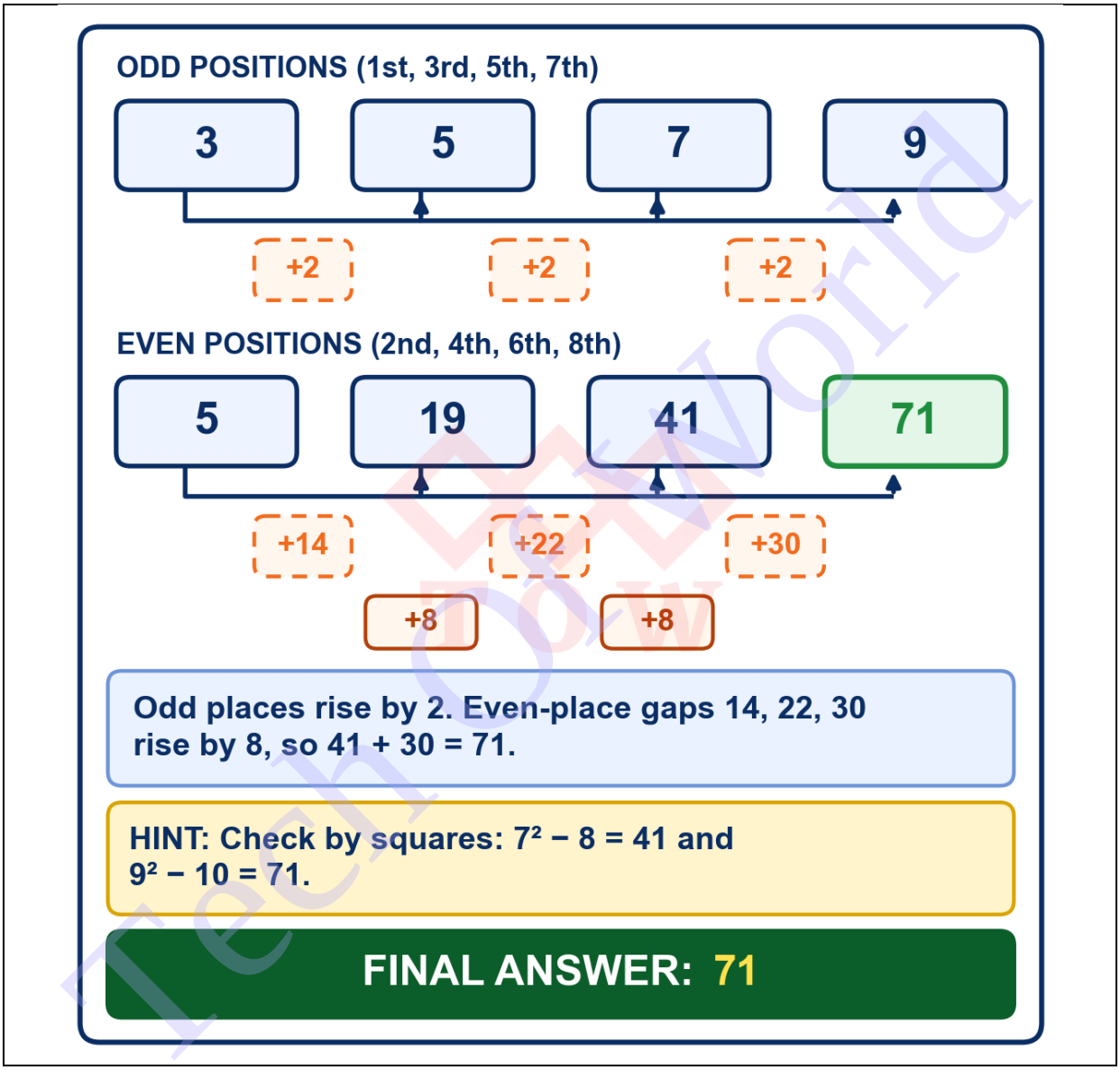
(A) 71

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(B) 61
(C) 79
(D) 69

Ans- (A) 71



Q-20 Which of the following statements about Lala Lajpat Rai are true ?

i. He was reverentially remembered by Indian as 'Uncrowned King of India'.
ii. He was a fearless journalist and founded and edited '*The Punjabee*'.
iii. He was also edited the Quarterly Journal of the '*Poona Sarvajanik Sabha*'.

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iv. He had the fighting spirit and pride in his Motherland characteristic of a true Arya Samajist.

[OPSC AG ASO 2025]

(A) i and ii
(B) ii and iii
(C) ii and iv
(D) i and iv

ANS- (C) ii and iv

Explanation: **Statements ii and iv** are true. **Lala Lajpat Rai** (1865–1928) started the English weekly **The Punjabee** in **1904** and wrote its main editorials. He was a leader of the **Arya Samaj** in Punjab and was known for his **fighting spirit** and pride in the **Motherland**. He was called **Punjab Kesari** (Lion of Punjab) and formed the **Lal-Bal-Pal** trio with Bal Gangadhar Tilak and Bipin Chandra Pal.

Key Points:

✦ *Simon Commission:* **he led the Lahore protest on 30 October 1928 with the slogan "Simon Go Back"**
✦ *Death:* **he died on 17 November 1928 after a police lathi-charge injury**
✦ *Institutions:* **he helped start Punjab National Bank (1894) and the Servants of the People Society (1921)**

Statements:

I. ✗ False — Lajpat Rai is remembered as **Punjab Kesari** (Lion of Punjab), not as **Uncrowned King of India**.
II. ✓ True — He started **The Punjabee** in **1904** and was a **fearless** writer against British rule.
III. ✗ False — The **Quarterly Journal** of the **Poona Sarvajanik Sabha** was published in **Pune** from **1878** by the **Ranade** circle, and **G. K. Gokhale** was one of its editors, not Lajpat Rai.
IV. ✓ True — He showed the **fighting spirit** and pride in his **Motherland** that marked a true **Arya Samajist**.

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