

# **SBI & IBPS 2023**

## **A Foundation Batch (Batch 1) (Hindi)**

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Clear All SBI & IBPS 2023 Exams in First Attempt



1. वर्ष 2022 के लिए रसायन विज्ञान में नोबेल पुरस्कार किसने जीता?

- A. कैरोलिन आर. बर्टोज़्जी
- B. एलेन एस्पेक्ट
- C. जॉन एफ. क्लॉजर
- D. स्वान्ते पाबो
- E. एंटोन ज़िलिंगर

2. हाल ही में चीतों को भारत में फिर से लाया गया है। भारत में एशियाई चीतों को किस वर्ष में विलुप्त घोषित किया गया था?

- A. 1947
- B. 1949
- C. 1950
- D. 1952
- E. 1955

3. दिसंबर 2022 की मौद्रिक नीति में, भारतीय रिजर्व बैंक (RBI) ने रेपो दर में \_\_\_\_\_ की वृद्धि की।

- A. 25 आधार अंक
- B. 35 आधार अंक
- C. 45 आधार अंक
- D. 55 आधार अंक
- E. 65 आधार अंक

4. लोगों को पैसे देने या व्यक्तिगत जानकारी प्रकट करने हेतु बरगलाने के लिए धोखाधड़ी वाले फोन कॉल के लिए किस शब्द का उपयोग किया जाता है?

- A. फ्लेमिंग (Flaming)
- B. ब्लोगिंग (Blogging)
- C. पॉप-अप्स (Pop-ups)
- D. वॉइस फिशिंग (Voice phishing)
- E. हाइजैकिंग (Hijacking)

5. केन्या के एलियड किपचोगे देश के एकमात्र डबल ओलंपिक चैंपियन हैं। उन्होंने दूसरी बार ओलंपिक के लिए पदक कब जीता था?



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

- A. टोक्यो ओलंपिक 2020
- B. रियो ओलंपिक 2016
- C. लंदन ओलंपिक 2012
- D. बीजिंग ओलंपिक 2008
- E. एथेंस ओलंपिक 2004

6. सितंबर 2022 में फ्लोरिडा में आए तूफान का नाम क्या है?

- A. इंद्रू
- B. इयान
- C. निकोल
- D. चार्ली
- E. विल्मा

7. भारतीय रिजर्व बैंक (RBI) ने सेंट्रल बैंक ऑफ इंडिया को अपने प्रोम्प्ट करेक्टिव एक्शन फ्रेमवर्क (PCAF) से हटा दिया है। सेंट्रल बैंक ऑफ इंडिया को पीसीए फ्रेमवर्क के तहत क्यों रखा गया?

- A. उच्च निवल एनपीए
- B. संपत्तियों पर ऋणात्मक परावर्तन
- C. टियर-1 लाभ अनुपात 3.5 से 4.0 प्रतिशत के बीच नहीं था
- D. A और B
- E. B और C

8. KLEMS का विस्तारित रूप क्या है?

- A. capital, labor, energy, materials, and services.
- B. kinetic energy, labour, ego, materials, and services.
- C. capital, land, energy, mechanics, and services.
- D. knowledge, land, enemy, marker, and solidarity
- E. इनमें से कोई नहीं

9. किसने अपने सदस्य देशों के आधिकारिक भंडार के पूरक हेतु विशेष आहरण अधिकार (एसडीआर) बनाया है?

- A. आईएमएफ
- B. डब्ल्यूटीओ
- C. यूनेस्को



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

D. विश्व बैंक

E. यूनिसेफ

10. कुम्भलगढ़ का किला भारत के किस राज्य में स्थित है?

A. मध्य प्रदेश

B. राजस्थान

C. उत्तर प्रदेश

D. छत्तीसगढ़

E. हरियाणा

11. 2022 नोबेल शांति पुरस्कार एलेस बालियात्स्की, स्मारक संगठन और सेंटर फॉर सिविल लिबर्टीज को दिया गया है। वे कहां से संबंधित हैं?

A. अमेरिका, ब्रिटेन और रूस

B. बेलारूस, रूस और यूक्रेन

C. फ्रांस, रूस और यूक्रेन

D. बेलारूस, ब्रिटेन और अमेरिका

E. बेलारूस, पेरू और सूडान

12. आरबीआई ने येस बैंक के गैर-

कार्यकारी अंशकालिक अध्यक्ष के रूप में राम सुब्रमण्यम गांधी की नियुक्ति को मंजूरी दे दी है। वह कितने वर्षों तक इस पद पर रहेंगे?

A. 1 वर्ष

B. 2 वर्ष

C. 3 वर्ष

D. 4 वर्ष

E. 5 वर्ष

13. ग्लोबल लिवेबिलिटी इंडेक्स 2022 का शीर्ष प्रदर्शनकर्ता कौन है?

A. वियना, ऑस्ट्रिया

B. कोपेनहेगन, डेनमार्क

C. जिनेवा, स्विट्जरलैंड

D. फ्रैंकफर्ट, जर्मनी



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

E. एम्स्टर्डम, नीदरलैंड

14.सरकार ने विदेश व्यापार नीति 2015-20 का कार्यकाल \_\_\_\_\_ तक बढ़ा दिया है।

- A. मार्च, 2023
- B. मार्च, 2024
- C. मार्च, 2025
- D. मार्च, 2026
- E. मार्च, 2027

15.कौन सा देश ग्लोबल इनोवेशन इंडेक्स 2022 में शीर्ष प्रदर्शनकर्ता के रूप में उभरा?

- A. यूनाइटेड किंगडम
- B. नीदरलैंड
- C. स्विट्ज़रलैंड
- D. डेनमार्क
- E. ऑस्ट्रेलिया

16.भारत ने पहली बार जुलाई 2022 में अप्रत्याशित कर लगाया। यह \_\_\_\_\_ से संबंधित है।

- A. एक स्थानीय राजनीतिक इकाई द्वारा लगाया गया कर
- B. एक अभूतपूर्व घटना के कारण भारी राजस्व उत्पन्न करने वाली कंपनियों के लाभ पर कर लगाना
- C. माल के लाभ पर लगाया गया कर जब उन्हें अंतर्राष्ट्रीय सीमाओं के पार ले जाया जाता है
- D. सामाजिक बीमा कार्यक्रमों के वित्तपोषण हेतु कर्मचारियों की मजदूरी और वेतन पर भुगतान किया गया कर
- E. इनमें से कोई नहीं

17.NAVIC में 'C' का क्या अर्थ है?

- A. Communication
- B. Collection
- C. Constellation
- D. Coordination
- E. Connection

18.विश्व में सीमेंट उत्पादन में भारत का स्थान क्या है?



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

- A. दूसरा
- B. चौथा
- C. छठा
- D. आठवां
- E. दसवां

19. इंडियन सुपर लीग टीमों का शीर्षक प्रायोजक कौन है?

- A. बायजूस
- B. हीरो
- C. महिन्द्रा
- D. विवो
- E. ओप्पो

20. मेघालय को किस मंत्रालय द्वारा स्टार्टअप पारिस्थितिकी तंत्र हेतु छोटे राज्यों में सर्वश्रेष्ठ प्रदर्शन करने वाले के रूप में घोषित किया गया है?

- A. उद्योग और आंतरिक व्यापार संवर्धन विभाग (DPIIT)
- B. सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
- C. कौशल विकास और उद्यमिता मंत्रालय
- D. वित्त मंत्रालय
- E. वाणिज्य और उद्योग मंत्रालय

21. एक आयत की चौड़ाई (b) आयत की लंबाई से 65% कम है। त्रिज्या r सेमी वाले एक वृत्त का क्षेत्रफल  $616 \text{ सेमी}^2$  और  $r^2 = 16\frac{1}{3}(b + 5)$  है। आयत का क्षेत्रफल कितना है?

- A.  $154 \text{ सेमी}^2$
- B.  $84 \text{ सेमी}^2$
- C.  $140 \text{ सेमी}^2$
- D.  $126 \text{ सेमी}^2$
- E. इनमें से कोई नहीं

22. 15 आदमी एक कार्य को 20 दिनों में कर सकते हैं। 20 महिलाएं उसी कार्य को 30 दिनों में कर सकती हैं। 40 आदमियों ने 3 दिन कार्य किया तथा उसके बाद कार्य कुछ दिनों के लिए बंद कर दिया



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

गया। शेष कार्य 30 महिलाओं द्वारा पूरा किया गया। यदि कुल कार्य 21 दिनों में समाप्त हो गया, तो कार्य कितने दिनों के लिए बंद किया गया था?

- A. 6
- B. 8
- C. 4
- D. 3
- E. 5

23.

**निर्देश:** निम्नलिखित प्रश्न में प्रश्नवाचक चिन्ह (?) के स्थान पर क्या अनुमानित मान आएगा? (आपसे सटीक मान की गणना करने की अपेक्षा नहीं की जाती है)

$$\sqrt{289.12} + 45.019 \times 6.012 + \frac{287.982}{16} = ?^2 - 18.93A. 21$$

- B. 12
- C. 45
- D. 18
- E. 80

24.  $(749.98 \text{ का } 120.05\%) \div \left(\frac{71.97}{4}\right) = 124.96 \text{ का } ?\%$

- A. 2
- B. 40
- C. 8
- D. 25
- E. 14

25. दिए गए विकल्पों में से किस द्विघात समीकरण के मूल  $-\frac{7}{2}$  और 4 हैं?

- A.  $14x^2 - 11x - 4 = 0$
- B.  $2x^2 - x - 28 = 0$
- C.  $4x^2 - x + 28 = 0$
- D.  $2x^2 - 11x - 14 = 0$
- E. इनमें से कोई नहीं

26.

**निर्देश:** निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें तथा प्रश्नों के उत्तर दें।

प्रश्न में, तीन समीकरण (I), (II) और (III) दिए गए हैं।

- I.  $2x^2 - 11x - 63 = 0$
- II.  $5y^2 + 18y + 16 = 0$
- III.  $4z^2 + 19z + 22 = 0$



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

समीकरण (I) के छोटे मूल और समीकरण (III) के बड़े मूल का गुणनफल क्या है? A. 9

- B. -4
- C. -9
- D. 12
- E. 7

27. समीकरण (I) और समीकरण (II) के बड़े मूलों का योग क्या है?

- A.  $\frac{24}{7}$
- B. 10
- C. 13
- D.  $\frac{37}{5}$

E. इनमें से कोई नहीं

28. यदि  $m$  समीकरण III का छोटा मूल है तथा  $n$  समीकरण II का छोटा मूल है, तो  $\frac{m}{n}$  का मान क्या है?

- A.  $\frac{11}{8}$
- B. 3
- C.  $\frac{22}{5}$
- D.  $-\frac{11}{2}$

E. इनमें से कोई नहीं

29. छह वर्ष बाद मोहन की आयु 4 वर्ष पहले सोहन की आयु के बराबर होगी। सोहन के पुत्र की वर्तमान आयु (वर्षों में) का संख्यात्मक मान समीकरण  $x^2 - 9x + 8 = 0$  के बड़े मूल के बराबर है। यदि सोहन का पुत्र मोहन से 16 वर्ष छोटा है, तो सोहन की वर्तमान आयु ज्ञात कीजिए।

- A. 36 वर्ष
- B. 34 वर्ष
- C. 42 वर्ष
- D. 44 वर्ष
- E. 39 वर्ष



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL



30. गांव A में पुरुषों का महिलाओं की संख्या से अनुपात 3:2 है और गांव A में पुरुषों का गांव B में पुरुषों की संख्या से अनुपात 2:5 है। गांव B में महिलाओं की संख्या गांव A में महिलाओं की संख्या से 560 अधिक है। यदि गांव B की जनसंख्या गांव A की जनसंख्या से 160% अधिक है, तो गांव A में पुरुषों की संख्या ज्ञात कीजिए।

- A. 570
- B. 720
- C. 480
- D. 360
- E. 240

31.

**निर्देश:** निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें तथा तदनुसार प्रश्नों के उत्तर दें:

**इनपुट:** 623715 936124 582012 946271 364238 273637

चरण I : 517326 391642 850221 172649 632483 736372

चरण II : 123567 123469 012258 124679 233468 233677

चरण III: 72356 92346 01225 92467 163346 143367

चरण IV : 13 15 5 16 7 8

चरण V : 7 9 10 15 17 18

चरण V उपरोक्त व्यवस्था का अंतिम चरण है।

उपरोक्त दिए गए चरणों में अनुसरण किए गए नियमों के अनुसार, निम्नलिखित प्रत्येक प्रश्न में दिए गए इनपुट के लिए उपयुक्त चरण ज्ञात करें।

**इनपुट:** 649572 835133 735248 423162 173527 846241

कौन सी संख्या चरण IV में दाएं छोर से तीसरी संख्या होगी? A. 8

- B. 13
- C. 10
- D. 12
- E. 14

32. चरण IV और चरण V की अंतिम संख्या का योग क्या होगा?

- A. 25
- B. 18
- C. 23
- D. 30
- E. 32



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

33. चरण "245679 833351 234578 122346 123577 124468" किस चरण से संबंधित है?

- A. चरण II
- B. चरण III
- C. चरण IV
- D. ऐसा कोई चरण नहीं है
- E. उपरोक्त में से कोई नहीं

34. कौन सी संख्या चरण III में बाएं छोर से दूसरी संख्या की दाईं ओर से तीसरी संख्या है?

- A. 83335
- B. 72357
- C. 82446
- D. 163457
- E. 62234

35.

**निर्देश:** नीचे दिए गए प्रश्नों में एक प्रश्न और दो कथन संख्या I और II दिए गए हैं। आपको यह निर्णय लेना है कि कथन में दी गई जानकारी उत्तर देने के लिए पर्याप्त है या नहीं।

P, Q, R, S और T में कौन सा दूसरा सबसे छोटा है?

I. S सबसे छोटा नहीं है। P केवल दो लोगों से छोटा है।

II. Q, S से लंबा है और P से छोटा है। A. यदि कथन I उत्तर देने के लिए पर्याप्त है, लेकिन कथन II उत्तर देने के लिए अकेले पर्याप्त नहीं है।

B. यदि कथन II उत्तर देने के लिए पर्याप्त है, लेकिन कथन I उत्तर देने के लिए अकेले पर्याप्त नहीं है।

C. यदि या तो कथन I या II उत्तर देने के लिए पर्याप्त है।

D. यदि दोनों कथन I और II साथ में प्रश्न का उत्तर देने के लिए पर्याप्त नहीं हैं।

E. यदि दोनों कथन I और II साथ में प्रश्न का उत्तर देने के लिए पर्याप्त हैं।

36.

**निर्देश:** नीचे दिए गए प्रश्नों में एक प्रश्न और दो कथन संख्या I और II दिए गए हैं। आपको यह निर्णय लेना है कि कथन में दी गई जानकारी उत्तर देने के लिए पर्याप्त है या नहीं।

'feather' और 'sky' को कूट भाषा में कैसे लिखा जाएगा?



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

I. 'beautiful feather fly' को 'lm on pk' के रूप में और 'fly in sky' को 'ty lm mu' के रूप में लिखा जाता है।

II. 'sky is beautiful' को 'pk ty hk' के रूप में और 'birds in sky' को 'ty gy mu' के रूप में लिखा जाता है। A. यदि कथन I उत्तर देने के लिए पर्याप्त है, लेकिन कथन II उत्तर देने के लिए अकेले पर्याप्त नहीं है।

B. यदि कथन II उत्तर देने के लिए पर्याप्त है, लेकिन कथन I उत्तर देने के लिए अकेले पर्याप्त नहीं है।

C. यदि या तो कथन I या II उत्तर देने के लिए पर्याप्त है।

D. यदि दोनों कथन I और II साथ में प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है।

E. यदि दोनों कथन I और II साथ में प्रश्न का उत्तर देने के लिए पर्याप्त हैं।

37.

**Direction:** In the following question, a word is given along with its usage in sentences given in the options. Choose the option in which the use of the given word is contextually and grammatically correct.

SOAR

A. In 1743, as the city quickly grew restless from a wave of **soaring** prices, grumbling voices were heard everywhere.

B. Not a single man had any desire to revive old **soar** or to score on the other party.

C. The team's perfect season turned **soar** after they lost their second straight game.

D. I went rowing yesterday for the first time in years, and my arms are **soar** today.

E. None of the above

38.

**Direction:** Out of the statements given below, find the statements that are grammatically and contextually correct. If all the statements are correct, choose E, i.e. 'All are correct'.

A) In 1974, Colombia's capital Bogota began a revolution called Ciclovía, a Spanish term for cycleway.

B) Every Sunday, or on a holiday, 122 km of streets are closed, partially or fully, for citizens to cycle.

C) Today, more than 1.5 million people cycle in the city, boosted by the creation of a network of permanent cycle routes and a city mandate that enforces bike lanes on all new streets.

D) These ideas can then be made permanent based on feedback from citizens.



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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- A. Only A
- B. Both B and C
- C. Only D
- D. Both A and D
- E. All are correct

39.

- A) Tea garden workers in Assam, many of whom belonging to the Adivasi community, live on land provided by the tea estates.
- B) Last year, the government raised it to Rs 205 for workers in the Brahmaputra Valley, much less than the Rs 351 originally demanded.
- C) Assam's Chief Minister has pointed out that adherence to IST results in a loss of daylight hours in the state and a concomitant decline in productivity.
- D) For long, North Easterners have demanded a separate time zone which would allow them to start the day an hour earlier and save that much wasted place.

- A. Only A
- B. Only C
- C. Both A and D
- D. Both B and C
- E. All are correct

40.

**Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. Column I (A, B and C) consists of first half of each sentence and Column II (D, E and F) consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the option as your answer.

Column I

- A) Farmers have a constitutional right to continue with their absolutely
- B) Has anybody seen an legal order like this before because,
- C) A Bench was informed by the government's additional standing counsel

Column II

- D) that most of the work relating to the stretch of road was complete.
- E) to take forward the slow-moving process of disengagement on the LAC.
- F) perfect protest as long as their dissent does not slip into violence.

- A. A-F and C-D
- B. B-E and C-F
- C. A-E, B-F, and C-D
- D. A-E
- E. B-F



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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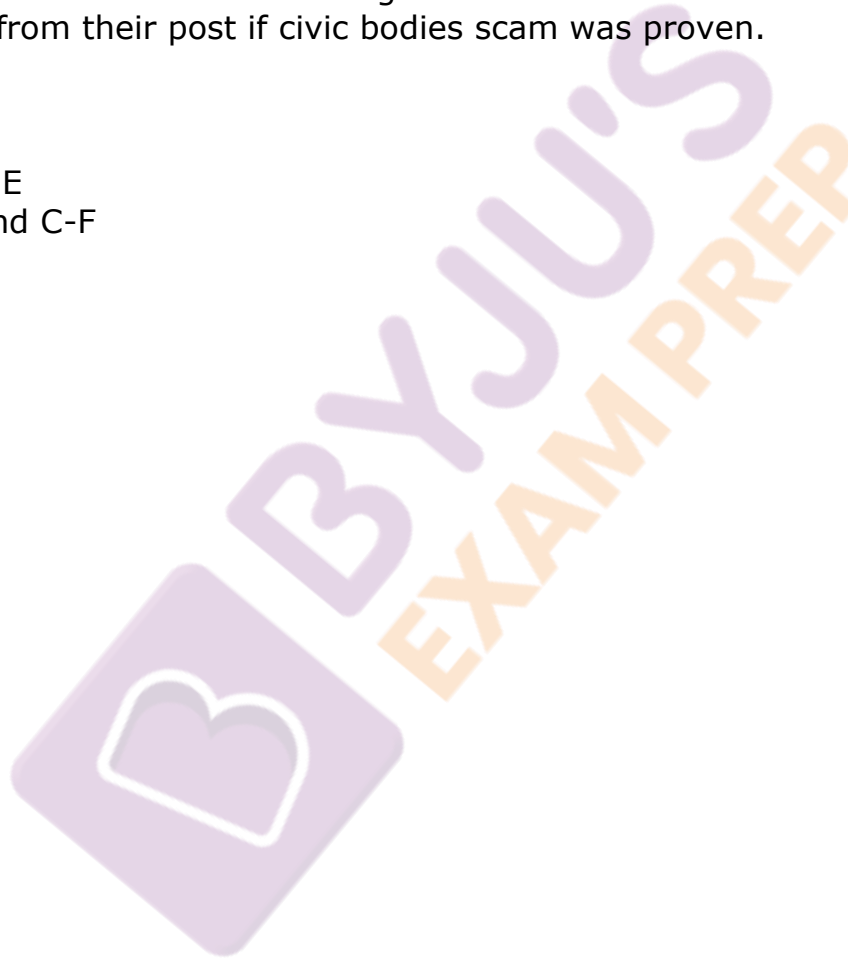
41.

**Column I**

- A) Covid 19 (Corona virus) pandemic has brought
- B) Workers have been forced to protest on the factory gate in the cold
- C) Leader of the Opposition in the Legislative Assembly said he would

**Column II**

- D) for the last three week for their legitimate demands.
  - E) great pressure on World Health Organisation.
  - F) step down from their post if civic bodies scam was proven.
- A. B-D
  - B. C-F
  - C. A-E
  - D. B-D and C-E
  - E. A-E, B-D and C-F



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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###ANSWERS###

1. Ans. A.

- Nobel Prize in Chemistry 2022 is given to three personalities this year: **Carolyn Bertozzi, Barry Sharpless** and **Morten Meldal**.
- Barry Sharpless and Morten Meldal have laid the foundation for a functional form of chemistry click chemistry in which molecular building blocks snap together quickly and efficiently.
- Carolyn Bertozzi has taken click chemistry to a new dimension and started utilizing it in living organisms.

2. Ans. D.

- Last cheetah as shot in India in 1947, and they were officially declared extinct in 1952.
- Prime Minister of India launched the first global intercontinental carnivore translocation of African cheetahs from Namibia to Kuno-Palpur National Park in India.
- Historic reintroduction of Cheetahs in India is part of a long series of measures for ensuring sustainability and environment protection in the last 8 years which has resulted in significant achievements in the area of environment protection and sustainability.

3. Ans. B.

- Monetary Policy Committee (MPC) increased the policy repo rate under the liquidity adjustment facility (LAF) by 35 basis points to 6.25 per cent with immediate effect in its December 2022 Monetary Policy.
- Repo rate is the rate at which Reserve Bank of India (RBI) lends money to commercial banks in the event of any shortfall of funds.

4. Ans. D.

- Voice phishing is a form of phishing that occurs over voice-based media, comprising voice over IP (VoIP) or plain old telephone service (POTS).
- It uses speech synthesis software to leave voicemails notifying the victim of suspicious activity in a bank or credit account.

5. Ans. A.

- Eliud Kipchoge EGH is a Kenyan long-distance runner who competes in the marathon and formerly specialized at the 5000-metre distance.
- He is regarded as the greatest marathon runner of all time and is the 2016 Rio Olympics and 2020 Tokyo Olympic marathon champion and the world record holder in the marathon with a time of 2:01:09 set at the 2022 Berlin Marathon.

6. Ans. B.

- Hurricane Ian formed over the central Caribbean Sea in September 2022, as a tropical storm, the ninth tropical storm of the 2022 season and hit Florida.



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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- Its top maximum sustained winds of 155 mph had been recorded hours before landfall, when Category 4 hurricane was 2 mph shy of reaching Category 5 classification, the strongest classification on the Saffir-Simpson Hurricane Wind Scale.

7. Ans. D.

- Reserve Bank of India (RBI) removed the Central Bank of India from the Prompt Corrective Action (PCA) framework on complying with parameters like net non-performing assets (net NPAs) and capital ratios.
- RBI had placed Central Bank under PCA in June 2017 due to high net NPAs and negative return on assets.
- Central Bank was the last of the public sector lenders to come out of PCA as Indian Overseas Bank and UCO Bank were removed from the framework last September.

8. Ans. A.

- KLEMS stands for Capital (K), Labour (L), Energy (E), Materials (M) and Services (S).
- It refers to broad categories of intermediate inputs that are consumed by industries in their production of goods and services.

9. Ans. A.

- Special Drawing Rights (SDR) were created in 1969 by the International Monetary Fund (IMF).
- It is neither a currency nor a claim on the IMF and is a potential claim on the freely usable currencies of IMF members.
- It can be exchanged for these currencies and serves as the unit of account of the IMF and some other international organizations.
- The SDR basket of currencies includes US dollar, Euro, Japanese yen, pound sterling and the Chinese renminbi.

10. Ans. B.

- Kumbhalgarh fort is also known as the Great Wall of India and is a Mewar fortress on the westerly range of Aravalli Hills, just about 48 km from Rajsamand city of Rajasthan.
- It is a World Heritage Site included in Hill Forts of Rajasthan and was built during the 15th century by Rana Kumbha.
- Chief architect who built this fort was named as Mandan, who documented his style of work in his text, Rajvallabh.

11. Ans. B.

- 2022 Nobel Peace Prize winners Ales Bialiatski is from Belarus, human rights organization Memorial is from Russia and human rights organization Center for Civil Liberties from Ukraine.
- Centre for Civil Liberties was founded for the purpose of advancing human rights and democracy in Ukraine and has taken a stand to strengthen



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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Ukrainian civil society and pressure the authorities to make Ukraine a full-fledged democracy.

- Memorial was established in 1987 by human rights activists in former Soviet Union who wanted to ensure that the victims of communist regime's oppression would never be forgotten.
- Ales Bialiatski was one of the initiators of the democracy movement that emerged in Belarus in the mid-1980s and has devoted his life to promoting democracy and peaceful development in his home country.

12. Ans. C.

- Reserve Bank of India (RBI) has approved the appointment of Rama Subramaniam Gandhi as non-executive (part time) chairman of Yes bank for a period of three years.
- R Gandhi also had a three-year secondment to the Securities and Exchange Board of India (SEBI) and held the charge of Director of the Institute for Development and Research in Banking Technology (IDRBT), Hyderabad.
- Yes Bank headquarters: Mumbai

13. Ans. A.

- Austrian Capital, Vienna has topped the Global Liveability Report, 2022, with a 99.1 rating.
- It replaced Auckland (New Zealand) which topped in 2021 Global Liveability Report.
- Vienna was ranked at 12th position in 2021 since most of its museums and restaurants were closed due to Covid-19.
- It rebounded to 1st place, which it also held in 2018 and 2019.
- In the index New Delhi, has been ranked 112<sup>th</sup>, Mumbai at 117<sup>th</sup> position, Chennai at 142<sup>nd</sup> and Ahmedabad at 146<sup>th</sup> positions.

14. Ans. A.

- Government has extended the tenure of the Foreign Trade Policy 2015-20 by another six months till March 2023, instead of replacing it with a new policy by September 30 as it had envisaged, citing requests from industry bodies.
- Foreign Trade Policy (FTP) 2015-2020 was introduced for the facilitation of foreign trade by reducing the cost and time of transaction and raising the competitive bar for Indian Exports.

15. Ans. C.

- Switzerland is the most innovative economy in the world in 2022 for the 12th year in a row, followed by United States, Sweden, United Kingdom, and Netherlands.
- India was ranked 40th position out of 132 in Global Innovation Index (GII) 2022 rankings released by World Intellectual Property Organization (WIPO).
- Global Innovation Index (GII) is published annually and has been a leading reference for measuring an economy's innovation performance.



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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- Theme for Global Innovation Index 2022: **“What is the future of innovation-driven growth?”**

16. Ans. B.

- Windfall tax is a tax levied by governments against certain industries when economic conditions allow those industries to experience significantly above average profits.
- They are primarily levied on companies in the targeted industry that have benefited the most from economic windfall, most often commodity-based businesses.

17. Ans. C.

- NAVIC stands for Navigation with Indian Constellation.
- It is an autonomous regional satellite navigation system that provides accurate real-time positioning and timing services and covers India and a region extending 1,500 km around it, with plans for further extension.

18. Ans. A.

- India has been ranked as the world's second-largest cement producer.
- It accounts for more than 7% of the global installed capacity and has a lot of potential for development in the infrastructure and construction sector and the cement sector is expected to largely benefit from it.
- China is the first cement production of the world.

19. Ans. B.

- Two-wheeler vehicles manufacturer, Hero with headquarters at New Delhi has been declared as the Title Sponsor of the ISL since its inaugural season in 2014.
- Most recently, the company renewed its deal with the ISL in January 2020 in a three-year agreement reportedly worth ₹160 crore.
- Indian Super League (ISL) is the topflight of professional men's football in India, for the 2022-23 season.

20. Ans. A.

- Meghalaya has been adjudged as the best performer among smaller states having population of less than 1 crore in developing startup ecosystem for budding entrepreneurs, according to the ranking of states and Union territories by the Department for Promotion of Industry and Internal Trade (DPIIT).
- DPIIT ranking is an annual report which pegs the country's states and UTs according to their startup ecosystems.

21. Ans. C.

$$\frac{22}{7} \times r^2 = 616$$

$$\Rightarrow r^2 = 196$$

$$\text{So, } 16\frac{1}{3}(b + 5) = 196$$



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A Foundation Batch (Batch 1) (Hindi)

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$$\Rightarrow \frac{49}{3}(b + 5) = 196$$

$$\Rightarrow b + 5 = 12$$

$$\Rightarrow b = 7$$

35% of the length of rectangle = 7 cm

So, the length of rectangle =  $\frac{7}{0.35} = 20$  cm

Area of rectangle = length  $\times$  breadth =  $7 \times 20 = 140$  cm<sup>2</sup>

22. Ans. A.

$$15m \times 20 = 20w \times 30$$

$$\Rightarrow m = 2w$$

$$\Rightarrow 40m = 80w$$

Let the work was stopped for  $x$  days.

Then,  $80w \times 3 + 30w \times (21 - 3 - x) = 20w \times 30$

$$\Rightarrow 240 + 540 - 30x = 600$$

$$\Rightarrow 30x = 780 - 600$$

$$\Rightarrow 30x = 180$$

$$\Rightarrow x = 6$$

23. Ans. D.

By approximation, we get:

$$\sqrt{289} + 45 \times 6 + \frac{288}{16} = ?^2 - 18.93$$

$$\Rightarrow 17 + 270 + 18 = ?^2 - 19$$

$$\Rightarrow 305 = ?^2 - 19$$

$$\Rightarrow ?^2 = 305 + 19 = 324$$

$$\Rightarrow ? = 18$$

24. Ans. B.

By approximation, we get:

$$(120\% \text{ of } 750) \div \left(\frac{72}{4}\right) = ?\% \text{ of } 125$$

$$\Rightarrow \frac{120}{100} \times 750 \times \left(\frac{4}{72}\right) = \frac{?}{100} \times 125$$

$$\Rightarrow 50 = \frac{?}{4} \times 5$$

$$\Rightarrow ? = \frac{50 \times 4}{5} = 40$$

25. Ans. B.

A quadratic equation with roots  $a$  and  $b$  is given by  $(x - a)(x - b) = 0$

So, the required equation =  $\left(x - \left(-\frac{7}{2}\right)\right)(x - 4) = 0$

$$\Rightarrow \left(x + \frac{7}{2}\right)(x - 4) = 0$$

$$\Rightarrow (2x + 7)(x - 4) = 0$$



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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$$\Rightarrow 2x^2 - 8x + 7x - 28 = 0$$

$$\Rightarrow 2x^2 - x - 28 = 0$$

26. Ans. E.

I.  $2x^2 - 11x - 63 = 0$

$$\Rightarrow 2x^2 - 18x + 7x - 63 = 0$$

$$\Rightarrow 2x(x - 9) + 7(x - 9) = 0$$

$$\Rightarrow (x - 9)(2x + 7) = 0$$

$$\Rightarrow x = 9, -7/2$$

II.  $5y^2 + 18y + 16 = 0$

$$\Rightarrow 5y^2 + 10y + 8y + 16 = 0$$

$$\Rightarrow 5y(y + 2) + 8(y + 2) = 0$$

$$\Rightarrow (y + 2)(5y + 8) = 0$$

$$\Rightarrow y = -2, -8/5$$

III.  $4z^2 + 19z + 22 = 0$

$$\Rightarrow 4z^2 + 8z + 11z + 22 = 0$$

$$\Rightarrow 4z(z + 2) + 11(z + 2) = 0$$

$$\Rightarrow (z + 2)(4z + 11) = 0$$

$$\Rightarrow z = -2, -11/4$$

Smaller root of equation (I) =  $-\frac{7}{2}$

Larger root of equation (III) =  $-2$

$$\text{Required product} = \left(-\frac{7}{2}\right) \times (-2) = 7$$

27. Ans. D.

I.  $2x^2 - 11x - 63 = 0$

$$\Rightarrow 2x^2 - 18x + 7x - 63 = 0$$

$$\Rightarrow 2x(x - 9) + 7(x - 9) = 0$$

$$\Rightarrow (x - 9)(2x + 7) = 0$$

$$\Rightarrow x = 9, -7/2$$

II.  $5y^2 + 18y + 16 = 0$

$$\Rightarrow 5y^2 + 10y + 8y + 16 = 0$$

$$\Rightarrow 5y(y + 2) + 8(y + 2) = 0$$

$$\Rightarrow (y + 2)(5y + 8) = 0$$

$$\Rightarrow y = -2, -8/5$$

III.  $4z^2 + 19z + 22 = 0$

$$\Rightarrow 4z^2 + 8z + 11z + 22 = 0$$

$$\Rightarrow 4z(z + 2) + 11(z + 2) = 0$$

$$\Rightarrow (z + 2)(4z + 11) = 0$$

$$\Rightarrow z = -2, -11/4$$

$$\text{Required sum} = 9 - \frac{8}{5} = \frac{37}{5}$$

28. Ans. A.

I.  $2x^2 - 11x - 63 = 0$



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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$$\Rightarrow 2x^2 - 18x + 7x - 63 = 0$$

$$\Rightarrow 2x(x - 9) + 7(x - 9) = 0$$

$$\Rightarrow (x - 9)(2x + 7) = 0$$

$$\Rightarrow x = 9, -7/2$$

$$\text{II. } 5y^2 + 18y + 16 = 0$$

$$\Rightarrow 5y^2 + 10y + 8y + 16 = 0$$

$$\Rightarrow 5y(y + 2) + 8(y + 2) = 0$$

$$\Rightarrow (y + 2)(5y + 8) = 0$$

$$\Rightarrow y = -2, -8/5$$

$$\text{III. } 4z^2 + 19z + 22 = 0$$

$$\Rightarrow 4z^2 + 8z + 11z + 22 = 0$$

$$\Rightarrow 4z(z + 2) + 11(z + 2) = 0$$

$$\Rightarrow (z + 2)(4z + 11) = 0$$

$$\Rightarrow z = -2, -11/4$$

$$\frac{m}{n} = \frac{-\frac{11}{4}}{-2} = \frac{11}{8}$$

29. Ans. B.

$$x^2 - 9x + 8 = 0$$

$$\Rightarrow x^2 - 8x - x + 8 = 0$$

$$\Rightarrow x(x - 8) - 1(x - 8) = 0$$

$$\Rightarrow (x - 8)(x - 1) = 0$$

$$\Rightarrow x = 8, 1$$

Larger root = 8

Present age of Sohan's son = 8 years

Present age of Mohan = 8 + 16 = 24 years

Let the present age of Sohan be  $y$  years.

Then,  $24 + 6 = y - 4$

$$\Rightarrow y = 30 + 4 = 34 \text{ years}$$

30. Ans. C.

Let the number of males in village A be  $6x$ .

So, the number of females in village A =  $4x$

Number of males in village B =  $\frac{6x}{2} \times 5 = 15x$

Number of females in village B =  $4x + 560$

$15x + 4x + 560 = 260\%$  of  $(6x + 4x)$

$$\Rightarrow 19x + 560 = 26x$$

$$\Rightarrow 7x = 560$$

$$\Rightarrow x = 80$$

Number of males in village A =  $6 \times 80 = 480$

31. Ans. C.

Step I: The number which is odd, written in reverse order.



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A Foundation Batch (Batch 1) (Hindi)

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The number which is even, 1<sup>st</sup> and 2<sup>nd</sup> digits are interchanged then 3<sup>rd</sup> and 4<sup>th</sup> digits are interchanged and at last 4<sup>th</sup> and 5<sup>th</sup> digits are interchanged.

Step II: Each digits written in ascending order in each number.

Step III: Multiplication of 1<sup>st</sup> and last digit, and then written remaining digits of each number.

Step IV: Addition of 1<sup>st</sup> and last digit of each number.

Step V: Addition of 2 in each number which is in step IV and then written in ascending order.

Input: 649572 835133 735248 423162 173527 846241

Step I : 465927 331538 372584 241326 725371 142648

Step II : 245679 133358 234578 122346 123577 124468

Step III: 184567 83335 163457 62234 72357 82446

Step IV : 8 13 8 10 14 14

Step V : 10 10 12 15 16 16

Hence, required number is 10.

32. Ans. D.

Step I: The number which is odd, written in reverse order.

The number which is even, 1<sup>st</sup> and 2<sup>nd</sup> digits are interchanged then 3<sup>rd</sup> and 4<sup>th</sup> digits are interchanged and at last 4<sup>th</sup> and 5<sup>th</sup> digits are interchanged.

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Step IV : 8 13 8 10 14 14

Step V : 10 10 12 15 16 16

Hence, required answer is 30.

33. Ans. D.

Step I: The number which is odd, written in reverse order.

The number which is even, 1<sup>st</sup> and 2<sup>nd</sup> digits are interchanged then 3<sup>rd</sup> and 4<sup>th</sup> digits are interchanged and at last 4<sup>th</sup> and 5<sup>th</sup> digits are interchanged.

Step II: Each digits written in ascending order in each number.

Step III: Multiplication of 1<sup>st</sup> and last digit, and then written remaining digits of each number.

Step IV: Addition of 1<sup>st</sup> and last digit of each number.

Step V: Addition of 2 in each number which is in step IV and then written in ascending order.



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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Input: 649572 835133 735248 423162 173527 846241  
Step I : 465927 331538 372584 241326 725371 142648  
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Step III: 184567 83335 163457 62234 72357 82446  
Step IV : 8 13 8 10 14 14  
Step V : 10 10 12 15 16 16

Hence, option D is correct.

34. Ans. B.

Step I: The number which is odd, written in reverse order.

The number which is even, 1st and 2nd digits are interchanged then 3rd and 4th digits are interchanged and at last 4th and 5th digits are interchanged.

Step II: Each digits written in ascending order in each number.

Step III: Multiplication of 1<sup>st</sup> and last digit, and then written remaining digits of each number.

Step IV: Addition of 1<sup>st</sup> and last digit of each number.

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Input: 649572 835133 735248 423162 173527 846241

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Step III: 184567 83335 163457 62234 72357 82446

Step IV : 8 13 8 10 14 14

Step V : 10 10 12 15 16 16

Hence, required answer is 72357.

35. Ans. E.

I.S is not the shortest. P is shorter than only two persons.

(not S) < \_ < P < \_ < \_

II. Q is taller than S and shorter than P.

S < Q < P

Taking both together:

S < Q < P < \_ < \_

Here we get Q is the second shortest.

Both the statements I and II taken together are sufficient to answer the question.

Hence, option (E) is the answer.

36. Ans. E.

I. 'beautiful feather fly' is written as 'lm on pk' and 'fly in sky' is written as 'ty lm mu'.

From this statement, we have

Fly = lm

II. 'sky is beautiful' is written as 'pk ty hk' and 'birds in sky' is written as 'ty gy mu'.



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

START FREE TRIAL

From this statement, we have

Sky = ty

And, from both the statements together, we have

Beautiful = pk

In = mu

Is = hk

Feather = on

Birds = gy

Both the statements are necessary to answer the question.

Hence, option (E) is the answer.

37. Ans. A.

B: Sore

C: Sour

D: Sore

38. Ans. E.

39. Ans. D.

Mark the errors:

A: is stating a fact. So, the main verb "belong" should be in simple present tense. Since the subject, "tea garden workers", is plural, the verb should also be in plural. It should be "belong", instead of "belonging".

D: The sentence is talking about "time zone" and to start the day earlier. In this context, it should be about saving wasted "time", rather than "place".

40. Ans. A.

B does not make a pair with anyone.

41. Ans. C.

A-E is the correct pair.

BD forms contextual pair but is grammatically incorrect. Here, 'week' should be replaced with 'weeks'

C' and 'F' too can be connected together to make a contextually meaningful sentence but because of the usage of 'their' in 'E', the sentence thus formed will be grammatically incorrect.



**SBI & IBPS 2023**

A Foundation Batch (Batch 1) (Hindi)

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