

Lockdown 2.0 Study Plan

Day 12



Direction (1 – 5) : In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The jobless rate among formerly incarcerated people in the United States stands at nearly five times the level for the general population—that’s higher than the total unemployment rate (###Q1###) the Great Depression. Black women bear the outsized (###Q2###) of incarceration, according to the study, which places their rate of unemployment at 43.6 per cent, compared to the 6.4 per cent unemployment rate for Black women in the general population. The toll of imprisonment extends far beyond formerly (###Q3###) individuals, according to the study, given that women are likely to be the primary caregivers for their families. And the (###Q4###) of services for Black women after incarceration only compounds the difficulties. Race and gender, the report notes, plays a significant role in not only who finds employment after incarceration, but also (###Q5###) finds jobs that pay livable incomes. Whereas Black women are least likely to find work, White men are most successful in finding employment after prison. And White men are also most likely to find full-time positions.

1. higher than the total unemployment rate

- _____
- A. over
- B. in
- C. after
- D. during

2. Black women bear the outsized

- _____
- A. Brunt
- B. Exoneration
- C. Absolution
- D. Advantage

3. The toll of imprisonment extends far beyond formerly _____

- A. Immured

- B. Incarcerated
- C. Independent
- D. Kept

4. And the _____

- A. Dearth
- B. Abundance
- C. Opulence
- D. Luxury

5. employment after incarceration, but also _____

- A. Whose
- B. Which
- C. That
- D. Who

Direction (6 – 10) : Read the following passage and fill in each blank with words chosen from options given.

Silence is much more than the absence of sound; it is the _____ (1) pre-existing entity in which God creates. It is the source to which all words return to _____ (2) true meaning. Silence is the womb of the tangible world. In the Christian Biblical version of Creation, God ‘spoke’ and the world came into being. With the pronouncing of the Word, speech became primary, but silence remained _____ (3). The heart of Christian meditation is to return to this primordial state of being. It is a journey from words into the creative word of God; this word is _____ (4) by silence. By its very nature, silence is _____ (5), often purposeless and for that reason very frightening.

6. Select the most appropriate option to fill in blank No.1

- A. autonomous
- B. enormous
- C. disastrous
- D. acrimonious

7. Select the most appropriate option to fill in blank No. 2

- A. abstain
- B. attain
- C. detain



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D. blain

8. Select the most appropriate option to fill in blank No. 3

- A. ambrosial
- B. celestial
- C. primordial
- D. altricial

9. Select the most appropriate option to fill in blank No. 4

- A. open
- B. show cased
- C. picturised
- D. enveloped

10. Select the most appropriate option to fill in blank No. 5

- A. adaptable
- B. equitable
- C. irritable
- D. unexploitable

11. If $\sin\theta = 2/3$, find the value of $\sec\theta$ and $\cot\theta$.

- A. $\sqrt{5}/2, 2/\sqrt{5}$
- B. $2/\sqrt{5}, 3/5$
- C. $3\sqrt{5}/5, \sqrt{5}/2$
- D. $3/5, 3\sqrt{5}/5$

12. What is the value of $\sec 30^\circ + \tan 60^\circ$?

- A. $5/\sqrt{3}$
- B. $(\sqrt{6} + 1)/\sqrt{3}$
- C. $(\sqrt{3} + 2)/\sqrt{3}$
- D. $(1 + \sqrt{3})/2$

13. If $A = 2\sin 16^\circ \cdot \sin 28^\circ$ and $B = \cos 62^\circ \cdot \cos 74^\circ$, then which of the following is true?

- A. $A = 2B$
- B. $2A = B$
- C. $A^2 = 2B^2$
- D. $2A^2 = B^2$

14. Find the value of $\cos^2 5^\circ + \cos^2 9^\circ + \cos^2 13^\circ + \dots + \cos^2 81^\circ + \cos^2 85^\circ$.

- A. $23/2$

- B. $21/2$
- C. $25/2$
- D. 21

15. In a Δ , $a^2 + c^2 = 9b^2$. Find the value

of $\frac{b^2}{ac \sec B}$.

- A. $\frac{1}{4}$
- B. 8
- C. $\frac{16}{1}$
- D. 3

16. If $\sec \theta (\cos \theta + \sin \theta) = \sqrt{2}$, then what is the value of $(2 \sin \theta) / (\cos \theta - \sin \theta)$?

- A. $3\sqrt{2}$
- B. $3/\sqrt{2}$
- C. $1/\sqrt{2}$
- D. $\sqrt{2}$

17. The distance between the tops of two building 38 metres and 58 metres high is 52 metres. What will be the distance (in metres) between two buildings?

- A. 46
- B. 42
- C. 44
- D. 48

18. If $\operatorname{cosec}^2 \theta = 625 / 576$, then what is the value of

$\left[\frac{\sin \theta - \cos \theta}{\sin \theta + \cos \theta} \right]^2$?

- A. 1
- B. $31/17$
- C. $17/31$
- D. $14/25$



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19. What is the simplified value of $(\sec A + \cos A)(\sec A - \cos A)$?

- A. $2 \tan^2 A$
- B. $2 \sin^2 A$
- C. $\sin^2 A \tan^2 A$
- D. $\sin^2 A + \tan^2 A$

20. ΔDEF is right angled at E. If $\angle F = 45^\circ$, then what is the value of $2 \sin F \times \cot F$?

- A. $\sqrt{2}$
- B. 2
- C. $1/\sqrt{2}$
- D. $1/2$

21. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

1, 1, 2, 6, 24, ?, 720

- A. 100
- B. 104
- C. 108
- D. 120

22. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

5760, 960, ?, 48, 16, 8

- A. 120
- B. 160
- C. 192
- D. 240

23. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

ICE, JDF, KEG, LFH, ?

- A. MIG
- B. MHG
- C. MGI
- D. HHI

24. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

7, 8, 11, 16, 23, ?

- A. 36

- B. 40
- C. 34
- D. 32

25. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

AC, DG, HL, ?, SY

- A. QU
- B. MR
- C. NS
- D. NU

26. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

365, 364, 355, 330, 281, ?

- A. 280
- B. 200
- C. 180
- D. 120

27. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

9, 16, 25, 36, _____, 64

- A. 56
- B. 49
- C. 80
- D. 72

28. In each of the following questions, choose the correct alternative from the given ones that will complete the series.

480, ?, 24, 8, 4

- A. 98
- B. 96
- C. 104
- D. 88

29. Choose the correct alternative from the given ones that will complete the series.

A, Z, B, Y, C, X, ?, ?

- A. EV
- B. WD
- C. DW



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D. YV

30. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

AZY, EXW, IVU, ?

A. MTS

B. MQR

D. Rajkumari Amrit Kaur

32. Who was the first Muslim president of Indian National Congress?

A. Mohammed Ali Jinnah

B. Badraddin Tayabji

C. Maulana Abdul Kalam Azad

D. Syed Ahmed Khan

33. Who was the first British Governor-General of Bengal?

A. Dalhousie

B. Hastings

C. Clive

D. Canning

34. Who was the first Indian to get selected in ICS?

A. Surendra Nath Bannerjee

B. Ravindra Nath Tagore

C. Satyendra Nath Tagore

D. CR Das

35. Who was the first Deputy Prime Minister of India?

A. L.K. Advani

B. Moraraji Desai

C. Charan Singh

D. Sardar Ballabhbai Patel

36. The first Field Marshal of India was _____.

C. NRQ

D. LST

31. Who was the first Indian Woman President of the 'Indian National Congress'?

A. Annie Besant

B. Sarojini Naidu

C. Sucheta Kripalani

A. A S Vaidya

B. K.M. Cariappa

C. Sunderji

D. S.H.F.J. Manekshaw

37. Who was the first recipient of the Jnanpith Award?

A. Dr. K.V. Puttappa

B. G. Sankara Kurup

C. Thakazhi Sivasankara Pillai

D. M.T. Vasudevan Nair

38. Which Indian became the President of International Court of Justice?

A. Rajendra Singh

B. Indu Mehta

C. Narendra Rathore

D. Nagendra Singh

39. Who was the first Chief Election Commissioner of India?

A. G.V. Mavlankar

B. T. Swaminathan

C. K.V.K. Sundaram

D. Sukumar Sen

40. Who was the first Indian to receive the Ramon Magsaysay award?

A. Indira Gandhi

B. TN Seshan

C. Kiran Bedi

D. Vinoba Bhave



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###ANSWERS###

1. Ans. D.

The Great Depression was a severe worldwide economic depression that took place mostly during the 1930s, beginning in the United States. The timing of the Great Depression varied across nations; in most countries it started in 1929 and lasted until the late-1930s. During is used to denote throughout the course or duration of (a period of time). So for this sentence D is correct.

2. Ans. A.

Brunt- the worst part or chief impact of a specified action

Exoneration- the release of someone from a duty or obligation

Absolution- formal release from guilt, obligation, or punishment

Advantage- a condition or circumstance that puts one in a favourable or superior position

After reading the whole para, it can be concluded that it is about Black women's huge troubles. Hence only brunt is the correct word for the blank.

3. Ans. B.

Immured- enclosed or confined (someone) against their will

Incarcerated- imprisoned

Independent- free from outside control; not subject to another's authority.

Kept- retained or reserved

After reading the whole para, it can be concluded that it is about formerly imprisoned people. Hence B is the correct answer.

4. Ans. A.

Dearth- a scarcity or lack of something

Abundance- a very large quantity of something

Opulence- great wealth or luxuriousness

Luxury- a state of great comfort or elegance, especially when involving great expense

After reading the whole para, it can be concluded that it is about the lack of job for Black women. Hence A is the correct answer.

5. Ans. D.

When using not only . . . but also in a sentence, parallelism should be the goal. It means that the words following both parts of this correlative conjunction (i.e., not only and but also) should belong to the same parts of speech. For example, if a verb follows not only, then a verb should also follow but also. Here 'who' follows not only, so it should also follow but also.

6. Ans. D.

Autonomous- self-governing

Enormous- huge

disastrous - causing great damage

Acrimonious- angry and bitter

The concerned lines state that Silence is a kind of entity where all words return to their true meaning. Option D is hence, the best-fit answer.

7. Ans. B.

Words would attain or get a true meaning in something, thus, option B is the correct answer.

Abstain- restrain oneself from doing or enjoying something

Detain- delay, hold

Blain- an inflamed swelling or sore on the skin

8. Ans. C.

Ambrosial- Pertaining to or worthy of the gods

Celestial- positioned in or relating to the sky

Primordial- existing at or from the beginning of time or primeval.

Altricial- (of a young bird or other animal) hatched or born in an undeveloped state

Even if the speech became primary, silence must have remained primeval, i.e, it must have come even before speech. thus, option C is the best-fit answer.

9. Ans. D.

Picturised- adapt (a story or screenplay) into a film

The concerned context talks about meditation as a journey from words into the creative word of God, and this word is something in relation to silence. Among the



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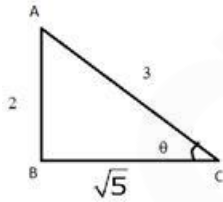
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given options, enveloped/ surrounded conveys the best meaning here.

10. Ans. D.

The concerned sentence mentions that silence is often purposeless, thus another negative word must describe silence as the "purposeless" is connected to the required word with the coordinating conjunction "and". Between "irritable" and "unexploitable", the latter is more appropriate in the given context. Thus, option D is the correct answer.

11. Ans. C.



In right angle triangle ABC, by Pythagoras theorem

$$BC = \sqrt{5}$$

$$\sec\theta = \frac{3}{\sqrt{5}} \text{ or, } \frac{3\sqrt{5}}{5} \quad \cot\theta = \sqrt{5}/2$$

12. Ans. A.

$$\sec 30^\circ + \tan 60^\circ$$

$$= 2/\sqrt{3} + \sqrt{3}$$

$$= 5/\sqrt{3}$$

13. Ans. A.

$$\frac{A}{B} = \frac{2 \sin 16^\circ \cdot \sin 28^\circ}{\cos 62^\circ \cdot \cos 74^\circ} = \frac{2 \cos 74^\circ \cdot \cos 62^\circ}{\cos 62^\circ \cdot \cos 74^\circ} = 2$$

$$\Rightarrow A = 2B$$

14. Ans. B.

$$\cos^2 5^\circ + \cos^2 9^\circ + \cos^2 13^\circ + \dots + \cos^2 81^\circ + \cos^2 85^\circ$$

$$= (\cos^2 5^\circ + \cos^2 85^\circ) + (\cos^2 9^\circ + \cos^2 81^\circ) + \dots + (\cos^2 41^\circ + \cos^2 49^\circ) + \cos^2 45^\circ$$

$$= (\cos^2 5^\circ + \sin^2 5^\circ) + (\cos^2 9^\circ + \sin^2 9^\circ) + \dots + (\cos^2 41^\circ + \sin^2 41^\circ) + \cos^2 45^\circ$$

$$= 1 + 1 + 1 + \dots \text{ up to 10 times} +$$

$$\left(\frac{1}{\sqrt{2}}\right)^2$$

$$= 10 + \frac{1}{2} = \frac{21}{2}$$

15. Ans. A.

$$\frac{b^2}{ac} \sec B = \frac{b^2}{ac} \times \frac{1}{\cos B}$$

$$= \frac{b^2}{ac} \times \frac{2ac}{a^2 + c^2 - b^2}$$

(Using Cosine

$$\text{Formula: } \cos B = \frac{a^2 + b^2 - c^2}{2ac})$$

$$= \frac{2b^2}{8b^2} = \frac{1}{4}$$

16. Ans. D.

$$\sec\theta(\cos\theta + \sin\theta) = \sqrt{2}$$

$$1 + \tan\theta = \sqrt{2}$$

$$\tan\theta = \sqrt{2} - 1$$

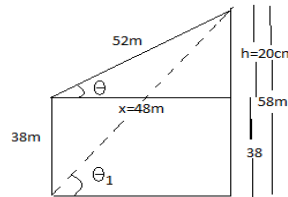
$$\frac{2 \sin\theta}{\cos\theta - \sin\theta}$$

$$\frac{\cos\theta - \sin\theta}{\cos\theta - \sin\theta}$$

Divide both the numerator and denominator by $\cos\theta$

$$\frac{2 \tan\theta}{1 - \tan\theta} = \frac{2(\sqrt{2} - 1)}{2 - \sqrt{2}} = \frac{2}{\sqrt{2}} = \sqrt{2}$$

17. Ans. D.



$$52^2 = x^2 + h^2$$

$$2704 = x^2 + 20^2 = x^2 + 400$$

$$x^2 = 2704 - 400 = 2304$$

$$x = 48 \text{ meter}$$

18. Ans. C.

$$\text{Cosec}^2\theta = \frac{625}{576}$$

$$\text{Cosec}\theta = \frac{25}{24}$$

$$\sin\theta = \frac{1}{\text{cosec}\theta} = \frac{24}{25}$$

$$\cos\theta = \sqrt{1 - \sin^2\theta} = \sqrt{1 - \frac{576}{625}}$$

$$\cos\theta = \frac{7}{25}$$



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$$\Rightarrow \frac{\sin\theta - \cos\theta}{\frac{\sin\theta + \cos\theta}{\frac{24}{25} - \frac{7}{25}}} = \frac{17}{31}$$

19. Ans. D.

$$\begin{aligned} &(\sec A + \cos A) (\sec A - \cos A) \\ &= \sec^2 A - \cos^2 A \\ &= \tan^2 A + 1 - \cos^2 A \\ &= \tan^2 A + \sin^2 A \end{aligned}$$

20. Ans. A.

$$\angle F = 45^\circ$$

$$2 \sin 45^\circ \cot 45^\circ$$

$$\Rightarrow 2 \times \frac{1}{\sqrt{2}} \times 1 = \sqrt{2}$$

21. Ans. D.

The series will be,

$$\begin{aligned} 1 \times 1 &= 1 \\ 1 \times 2 &= 2 \\ 2 \times 3 &= 6 \\ 6 \times 4 &= 24 \\ 24 \times 5 &= \mathbf{120} \\ 120 \times 6 &= 720 \end{aligned}$$

Hence, the correct option is D.

22. Ans. C.

$$5760 \div 6 = 960$$

$$960 \div 5 = \mathbf{192}$$

$$192 \div 4 = 48$$

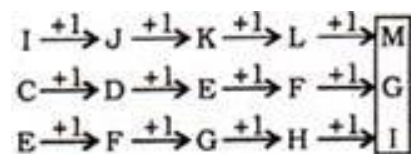
$$48 \div 3 = 16$$

$$16 \div 2 = 8$$

Hence, the correct option is C.

23. Ans. C.

The pattern is :



Hence, the correct option is C.

24. Ans. D.

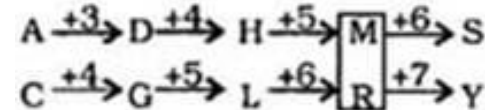
The series will be,

$$\begin{aligned} 7 + 1 &= 8 \\ 8 + 3 &= 11 \\ 11 + 5 &= 16 \\ 16 + 7 &= 23 \\ 23 + 9 &= \mathbf{32} \end{aligned}$$

Hence, the correct option is D.

25. Ans. B.

The relation shown by the above series is as follows:



Thus, ? will be replaced by MR.

Hence, the correct option is B.

26. Ans. B.

$$\begin{aligned} 365 - 364 &= 1 = 1^2 \\ 364 - 355 &= 9 = 3^2 \\ 355 - 330 &= 25 = 5^2 \\ 330 - 281 &= 49 = 7^2 \end{aligned}$$

Therefore the difference between 281 and ? will be (9²)

$$281 - ? = 9^2 = 81$$

$$\rightarrow 281 - ? = 81$$

$$\rightarrow ? = 281 - 81 = 200.$$

Hence, the correct option is B.

27. Ans. B.

$$9 + 7 = 16;$$

$$16 + 9 (=7+2) = 25;$$

$$25 + 11(=9+2) = 36$$

Hence every time the difference between two consecutive terms are increased by 2.

$$\text{Hence } ? = 36 + (11+2) = 36 + 13 = 49$$

&

$$49 + 15(=13+2) = 64$$

$$\text{Therefore } ? = 49$$

Hence, the correct option is B.

28. Ans. B.

If we look the series in reverse order then,

$$8 = 4 \times 2;$$

$$24 = 8 \times 3;$$

→ Multiplier increased by '1' in every next step.

$$\text{Therefore } ? = 24 \times 4 = 96$$

$$\rightarrow 480 = 96 \times 5$$



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Hence '?' = 96

Hence, the correct option is B.

29. Ans. C.

The series can be divided into two different series.

A, B, C, ? & Z, Y, X, ?

Clearly first series is increasing by 1 in every next step and second series is decreasing by 1 in every next step

Therefore A, B, C, ? = D & Z, Y, X, ? = W

IVU = 9 + 22 + 21 = 52

Hence ? : I + 4 = M; V - 2 = T; U - 2 = S

⇒ ? = MTS

MTS = 13+20+19 = 52

Hence, the correct option is A.

31. Ans. B.

- **Sarojini Naidu is the first Indian woman president** of INC in 1925 Kanpur session.

- Sarojini Naidu was the first woman governor of an Indian state (Governor of United Province, now Uttar Pradesh).

- Annie Besant is the first woman president of INC in 1917 Calcutta session

32. Ans. B.

The first Muslim president of Indian National Congress was Badruddin Tyabji. He became President in 1887 Madras INC Session

33. Ans. B.

First Governor-General of Bengal was Warren Hastings.

First Governor-General of India was William Bentinck.

First Viceroy of India- Lord Canning

First Governor-General of independent India was Lord Mountbatten

34. Ans. C.

- Satyendranath Tagore was the first Indian to join the Indian Civil Service.

- Satyendranath was selected for the Indian Civil Service in June, 1863. He completed his probationary training and returned to India in November 1864.

- Satyendranath was posted to Bombay presidency, which then covered

⇒ ?, ? = D, W

Hence, the correct option is C.

30. Ans. A.

AZY = 1 + 26 + 25 = 52: A is 1st letter from starting, Z is 1st and Y is 2nd letter from end.

E = A + 4; X = Z - 2; W = Y - 2

EXW = 5 + 24 + 23 = 52

I = E + 4; V = X - 2; U = W - 2

western parts of present-day Maharashtra, Gujarat and Sindh.

35. Ans. D.

The **Deputy Prime Minister** of India is a member of the Union Cabinet in the Government of India. The first Deputy Prime Minister of India was **Sardar Vallabhbhai Patel**, who was also home minister in Jawaharlal Nehru's cabinet.

36. Ans. D.

- Field Marshal Sam Hormusji Framji Jamshedji Manekshaw was the Chief of the Army Staff of the Indian Army during the Indo-Pakistani War of 1971 and was subsequently the first Indian Army officer to be promoted to the rank of field marshal.

37. Ans. B.

G. Sankara Kurup is the first recipient of the Jnanpith Award

38. Ans. D.

Maharaj Sri Nagendra Singh was an Indian lawyer and administrator who served as President of the International Court of Justice from 1985 to 1988.

39. Ans. D.

SukumarSen (1899–1961) was an Indian civil servant who was the first Chief Election Commissioner of India, serving from 21 March 1950 to 19 December 1958.

40. Ans. D.

In 1958 Vinoba Bhave was the first recipient of the international Ramon Magsaysay Award for Community Leadership. He was awarded the Bharat Ratna posthumously in 1983.

Hence, option D is correct.



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