

**Q:1** What should come in place of the question mark (?) in the following question?

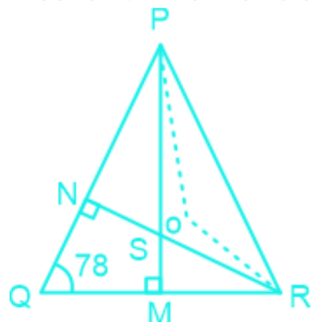
$$1.45\% \text{ of } 260 + 1.75\% \text{ of } 370 = ?$$

1. 8.975
2. 10.245
3. 15.650
4. 11.350

**Q:2** Find the ratio of the area of a square whose diagonal is  $16\sqrt{2}$  cm and the circumference of a circle with a diameter of 126 cm.

1. 63 : 54
2. 94 : 102
3. 64 : 99
4. 54 : 88

**Q:3** In triangle PQR,  $\angle Q = 78^\circ$ , PM is perpendicular to QR, RN is perpendicular to PQ, PM and RN intersect at S, and the bisector of  $\angle SPR$  and  $\angle SRP$  meet at O. Find the value of  $\angle ROP$ .

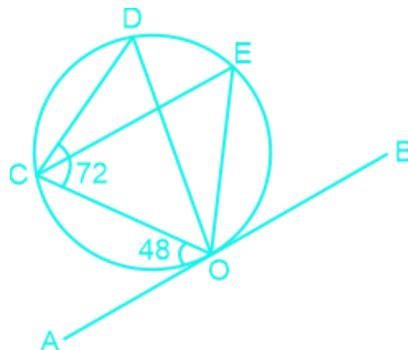


1.  $150^\circ$
2.  $141^\circ$
3.  $120^\circ$
4.  $115^\circ$

**Q:4**  $\sqrt{x^2 + y^2 + z^2} = 27$ , and  $xy + yz + zx = 116$ , then find the value of  $(x + y + z)$ , where  $(x + y + z) < 0$ .

1.  $\pm 31$
2.  $\pm 32$
3.  $-32$
4.  $-31$

**Q:5** In the given figure AB is tangent with point O on it,  $\angle DCO = 72^\circ$  and  $\angle AOC = 48^\circ$  then, find the measure of  $\angle DOB + \angle CEO$ .



1.  $45^\circ$
2.  $150^\circ$
3.  $120^\circ$
4.  $75^\circ$

**Q:6** Let p be the least number which when divided by 27 and 20, the remainder is 10. Find the least number to be subtracted from p to make it a perfect square.

1. 21
2. 30
3. 50
4. 10

**Q:7** Find the value of  $\frac{\sec\theta}{\sec\theta-1} + \frac{\sec\theta}{\sec\theta+1} - \cot^2\theta$ .

1.  $\sin^2\theta$
2.  $\operatorname{Cosec}^2\theta + 1$
3.  $1 - \tan^2\theta$
4. 1

**Q:8** Two people A and B start from city P and Q respectively, towards each other. After crossing each other, they completed their journey in 3.6 hours and 6.4 hours respectively. If speed of A is 48 km/hr then what is the speed of B?

1. 30 km/hr
2. 40 km/hr
3. 36 km/hr
4. 30 km/hr

**Q:9 Directions:** The given pie chart represent the data of a hospital. The percentage of diseases spread among males, females, and children is given in the pie chart. And, the table given below shows the ratio between males, females, and children to the diseases spread among them. The total number of patients visiting

the hospital is 49500.

Examine the given data carefully and answer the following questions.

Diseases

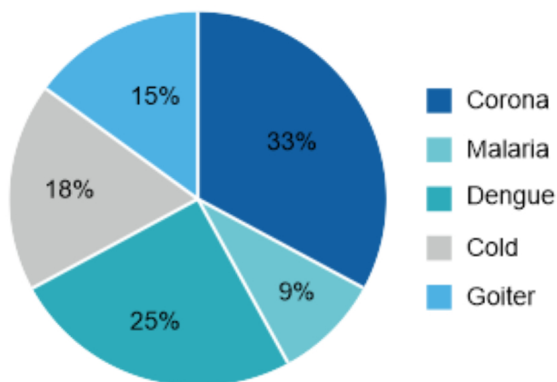


Table:

Disease	Male	Female	Children
Corona	4	3	4
Cold	3	2	1
Goitre	1	2	2
Malaria	1	1	1
Dengue	3	1	1

If the number of male dengue patients is increased by 125 and the number of Corona children patients increased by 105 then, find the value of one-fifth of their average.

- 542.20
- 115.3
- 1022
- 864.5

**Q:10** A number 17% more than x is equal to another number 35% lesser than y. What is the value of  $(y + x)/(y - x)$ ?

- 2.5
- 3.5
- 5
- 7

**Q:11** A train speeds past a pole in 30 seconds and speeds past a 100 meter long platform in 40 seconds. Its length in meters is -

- 300 m
- 320 m
- 375 m

- 410 m

**Q:12** If the ratio of the present age of a boy and his father is 2 : 5. What will be the ratio of their age after 8 years, if the present age of his father is 55 years?

- 21 : 10
- 10 : 21
- 20 : 21
- 21 : 20

**Q:13** 10 men or 12 women or 15 children can finish a certain work in 62 days. Then 2 men, 3 women, and 1 child take how many days to complete the work?

- 120 Days
- 90 Days
- 80 Days
- 60 Days

**Q:14** The marked price of an article is Rs. 900 and two successive discounts of 20% and 10% are given on the marked price. Then find the selling price of the article.

- Rs. 648
- Rs. 252
- Rs. 558
- Rs. 342

**Q:15** What will be the interest on Rs.5000 for 1.5 years at the ratio of 20% compounded semi-annually?

- Rs 1655
- Rs 1331
- Rs 2555
- None of these

**Q:16** Fresh fruits contains 80% water and dry fruits contains 30% water. What quantity of dry fruit can be prepared from 70kg of fresh fruits in kg?

- 18
- 25
- 20
- 14

**Direction 17 – 18 :** A user made six calls in a day and table given below shows the duration (minutes) of phone calls and charges of the phone call.





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English

Phone calls	Duration (min)	Charges
1st	56	15 paisa/min
2nd	64	0.75 paisa/s
3rd	48	10 paisa/min
4th	36	0.5 paisa/s
5th	72	0.45 paisa/s
6th	66	12 paisa/min

**Q:17** What is the total charged paid by user for 2<sup>nd</sup> and 5<sup>th</sup> calls together?

1. Rs. 5628
2. Rs. 4824
3. Rs. 7236
4. Rs. 6432

**Q:18** Find the difference between the charges paid by the customer for the 1<sup>st</sup> call and 6<sup>th</sup> call?

1. 42 paisa
2. 32 paisa
3. 48 paisa
4. 36 paisa

**Q:19** In an election 80% of the voters casted their votes, out of which 5% votes of casted votes were declared invalid, a candidate got 50% of the total valid votes that is 3800. Find the total votes enrolled in that election.

1. 8,000
2. 10,000
3. 7,000
4. 5,000

**Q:20** Three numbers are in the ratio of 2 : 3 : 4 and their HCF is 12. Then find the LCM of these numbers.

1. 144
2. 96
3. 112
4. 148

**Q:21** If  $(a/b)^2 + (b/a)^2 = 1$  Find the value of  $(a/b)^{12}$ .

1. - 1
2. 1

3. a/b
4. 0

**Q:22** A and B invested in the ratio 5 : 7 in a scheme. A got an additional 20% income from the profit as he was operating that scheme. If the total profit is Rs. 9000 then what was the profit of A (including his additional profit)?

1. Rs. 4940
2. Rs. 5120
3. Rs. 4390
4. Rs. 4800

**Q:23** A joker has a box that is in the shape of a tetrahedron of the side  $3\sqrt{2}$  cm. find the volume of the tetrahedron.

1.  $9 \text{ cm}^3$
2.  $10 \text{ cm}^3$
3.  $11 \text{ cm}^3$
4.  $12 \text{ cm}^3$

**Q:24** The ratio of salaries of Manisha and Rishabh is 11 : 13. If the salary of each is increased by Rs. 5000, the new ratio becomes 49 : 57. What is Manisha's salary?

1. Rs 40000
2. Rs 44000
3. Rs 48000
4. Rs 42000

**Q:25** Let  $x = 27^{1/6} - \sqrt{6\frac{3}{4}}$  and  $y = \frac{\sqrt{45} + \sqrt{605} + \sqrt{245}}{\sqrt{80} + \sqrt{125}}$ , then the value of  $x^2 + y^2$  is?

1. 221/9
2. 227/9
3. 221/36
4. 223/36

**Q:26** In each of the questions below are given three statements followed by three Conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the Conclusions and then decide which of the given Conclusions logically follows from the given statements disregarding commonly known facts.



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English

**Statements:**

Some Rivers are Sea.

No Sea is Ocean.

All Canals are Oceans.

**Conclusions:**

I. All Canals are Sea.

II. Some Rivers are Oceans.

III. Some canals are River is a possibility.

1. Only I follows

2. Only II follows

3. Only III follows

4. Only I and II follow

**Q:27** Select the option which is related to the fifth letter cluster in the same way as the fourth letter cluster is related to the third and the second letter cluster is related to the first.

HEQI : IERI :: EGOD : EHOE :: UCNS : ?

1. USDW

2. SAWQ

3. UDOT

4. RFDE

**Q:28** If 'K+L' means 'K is the son of L',

'K#L' means 'K is the sister L',

'K&L' means 'K is the brother of L',

'K@L' means 'K is the wife of L'.

Then which of the following expression shows L is the aunt of M if L is female?

1. M + K # D & L

2. M @ K & L + D

3. M + K & L + D

4. None of these

**Q:29** Find the wrong term in the given series.

BB, CX, EA, HW, LM

1. LM

2. FA

3. CX

4. ZB

**Q:30** Find the odd one out.

1. DFR

2. JLL

3. VXZ

4. HJQ

**Q:31** Select the set in which the numbers are related in the same way as the numbers of the following sets.

182 : 36 :: 323 : 96 :: 648 : ?

1. 131

2. 172

3. 512

4. 123

**Q:32** Which of the following sequence represents the correct dictionary order of the following words?

1. Insurer

2. Insider

3. Insulate

4. Instinct

5. Issuances

1. 2, 3, 5, 4, 1

2. 2, 4, 5, 3, 1

3. 2, 5, 4, 3, 1

4. 2, 4, 5, 1, 3

**Q:33** If 'A©B' means 'A is the son of B', 'A@B' means 'A is the mother of B', 'A%B' means 'A is the daughter of B', 'A#B' means 'A is the brother of B'. How is Y related to Q in the expression 'T@Q#P%X©Y' (if Y is male)?

1. Grandfather

2. Father

3. Mother

4. Grandmother

**Q:34** If RGAD is coded as 41718, then how would MIRK be coded?

1. 1118913

2. 1115913

3. 1118921

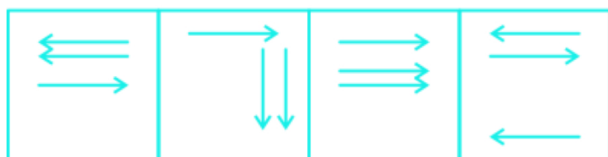
4. 1117924

**Q:35** Select the figure from the given options that can replace the question mark (?) in the following series.

### Question Figures



### Answer Figures



A

B

C

D

1. A
2. B
3. C
4. D

**Q:36** Select the option that is embedded in the given figure (rotation is NOT allowed).



1.



2.



3.



4.

**Q:37** Which of the following numbers will replace the question mark (?) in the given series?

214, 304, 376, 432, 474, ?

1. 496
2. 563
3. 619
4. 504

**Q:38** Which of the following interchanges signs would make the given equation correct?

$85 \div 17 + 8 - 5 \times 2 = 37$

1.  $\div, \times$
2.  $+, -$
3.  $+, \times$
4.  $\times, \div$

**Q:39** Find the wrong number in the series.

$P_5 @ R, P_4 \# S, P_3 \% T, P_2 \$ W, P_1 * V$

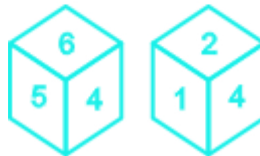
1.  $P_2 \$ W$
2.  $P_5 \$ R$
3.  $P_4 \# S$
4.  $P_1 * V$

**Q:40** Select the correct combination of mathematical signs to sequentially replace the \* signs and to balance the given equation.

$24 * 40 * 5 * 10 * 2 * 12$

1.  $\div, +, \times, -, =$
2.  $+, \div, -, \times, =$
3.  $\times, +, -, \div, =$
4.  $+, =, -, \times, \div$

**Q:41** Which digit will appear on the face opposite to the face with the number 3?



1. 2
2. 6



3. 4

4. 1

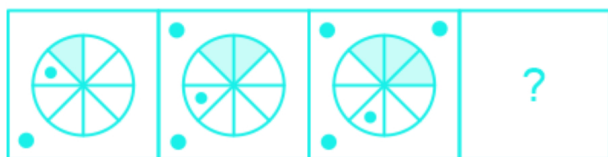
**Q:42** Words given on the left side of (::) are related to each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

Mary Kom : Boxing :: Yuvraj Singh : Cricket ::  
Mirabai Chanu : ?

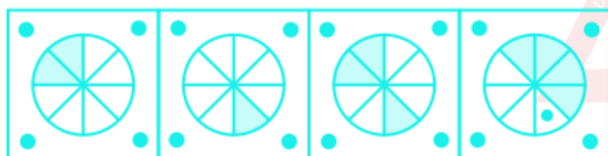
1. Football
2. Weightlifter
3. Chess
4. Hockey

**Q:43** Select the figure from the given options that can replace the question mark (?) in the following series.

Question Figures



Answer Figures



A

B

C

D

1. A
2. B
3. C
4. D

**Q:44** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

2	5	3
3	6	5
1	2	1
14	65	?

1. 11
2. 9

3. 35

4. 22

**Q:45** Find the odd one out.

1. 111A
2. 222G
3. 333D
4. 444H

**Q:46** In certain code language 'Happy and you' is written as 'ra ks bn', 'Make it Happy' is written as 'ks uc yf', and 'Before you make' is written as 'bn yf xq'. How will 'Before' be written in that language?

1. uc
2. yf
3. xq
4. ra

**Q:47** Select the correct mirror image from the given combination when the mirror is placed at PQ as shown below.



1. eY4ML
2. 9Y4ML
3. eY4MJ
4. LM4Ye

**Q:48** If '+' means '-', '-' means 'x', 'x' means '÷', and '÷' means '+', then what will be the value of the following expression?

$$75 \times 15 + 10 \div 17 - 2 = ?$$

1. 29
2. 30
3. 32
4. 24

**Q:49** Words given on the left side of (::) are related to each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

BA : Fine Arts :: B Tech : Engineer :: B.ed : ?



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English

1. Yoga
2. Education
3. Sports
4. Chess

**Q:50 Directions:** In each of the questions below are given three statements followed by three Conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the Conclusions and then decide which of the given Conclusions logically follows from the given statements disregarding commonly known facts.

**Statements:**

Some ears are eyes.  
Some eyes are noses.  
No tongue is eye.

**Conclusions:**

- I. All noses are tongue is a possibility.
  - II. No ear is tongue.
  - III. All ears are tongue.
1. Only I and III follow
  2. None follows
  3. Only I and II follow
  4. Only III follows

**Q:51 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'.**

At this hour of the pandemic, the only choice we have is to handle situations with wisdom that can help us calm our nerves.

1. can to help us
2. can helped us
3. No Improvement
4. can helping us

**Q:52 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'.**

The people of this village have done many mischiefs.

1. done many a mischiefs
2. No Improvement
3. committed many mischiefs

4. made many mischiefs

**Q:53 Fill in the blank with the most appropriate word.**

Have you ever \_\_\_\_\_ for a job in the Edu-tech company?

1. allowed
2. applied
3. altered
4. appointed

**Q:54 Fill in the blank with the most appropriate word.**

All the employees should express \_\_\_\_\_ candid views in the meeting without any fear.

1. his
2. its
3. our
4. their

**Q:55 Select the correct passive form of the given sentence.**

Radha introduced me to her friends last week.

1. I was being introduced to Radha's friends last week.
2. I was introduced to Radha's friends last week.
3. I had been introduced to Radha's friends last week.
4. I am introduced to Radha's friends last week.

**Q:56 Select the correct indirect form of the given sentence.**

The farmer said to the reporter, "The rainfall has been heavy till now."

1. The farmer told the reporter that the rainfall has been heavy till now.
2. The farmer told the reporter that the rainfall has been heavy till then.
3. The farmer told the reporter that the rainfall had been heavy till now.
4. The farmer told the reporter that the rainfall had been heavy till then.

**Q:57 Select the most appropriate ANTONYM of the given word.**

PUBLICISE

1. Promulgate



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English

2. Withhold
3. Silence
4. Disseminate

**Q:58 Select the most appropriate ANTONYM of the given word.**

ABERRATION

1. Regularity
2. Commonality
3. Particularity
4. Normality

**Q:59 Select the INCORRECTLY spelt word.**

1. Abundent
2. Accelerate
3. Accent
4. Accentuate

**Q:60 Select the INCORRECTLY spelt word.**

1. Acceptance
2. Accessibility
3. Accessible
4. Accessory

**Q:61 Select the most appropriate SYNONYM of the given word.**

DERIVE

1. Contain
2. Attain
3. Sustain
4. Obtain

**Q:62 Select the most appropriate SYNONYM of the given word.**

CATASTROPHE

1. Clumsy
2. Disease
3. Rustic
4. Calamity

**Q:63 Select the most appropriate meaning of the given idiom.**

Flogging a dead horse

1. Repeating our request
2. Making him see reason
3. Beating about the bush

4. Wasting time in useless effort

**Q:64 Select the most appropriate meaning of the given idiom.**

Under a cloud

1. Experiencing cloudy weather
2. Enjoying favourable luck
3. Under suspicion
4. Under observation

**Q:65 Select the word which means the same as the group of words given.**

Hard to understand

1. Credulous
2. Depraved
3. Plaque
4. Abstruse

**Q:66 Select the word which means the same as the group of words given.**

A remedy of all diseases

1. Panacea
2. Inertia
3. Replica
4. Amnesia

**Direction 67 – 71 : In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.**

Depression is classified as a mood

\_\_\_\_\_ (1) \_\_\_\_\_. It may be  
\_\_\_\_\_ (2) \_\_\_\_\_ as feelings of sadness, loss, or  
anger that interfere \_\_\_\_\_ (3) \_\_\_\_\_ a  
person's everyday activities. People experience  
depression in different ways. It may interfere with  
your \_\_\_\_\_ (4) \_\_\_\_\_ work, resulting in lost time  
and lower \_\_\_\_\_ (5) \_\_\_\_\_.

**Q:67 Select the most appropriate option to fill in the blank number (1).**

1. virus
2. disorder
3. jumble
4. bug

**Q:68 Select the most appropriate option to fill in the blank number (2).**





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English

1. describe
2. describing
3. described
4. describes

**Q:69** Select the most appropriate option to fill in the blank number (3).

1. with
2. on
3. into
4. upon

**Q:70** Select the most appropriate option to fill in the blank number (4).

1. order
2. usual
3. common
4. daily

**Q:71** Select the most appropriate option to fill in the blank number (5).

1. capacity
2. fertility
3. productivity
4. ability

**Q:72** Given below are four jumbled sentences. Select the option that gives their correct order.

A: Festivals in India revolve around Lord's birthdays, traditional myths, seasonal changes, relationships, and much more.

B: Festivals are celebrated irrespective of religion or caste in the country, bringing people closer and creating a strong bond of humanity.

C: The rich and vibrant festivals of India are a testimony to our diverse tradition and culture.

D: Right from childhood, infants in India are part of every festival celebration in the house.

1. BDAC
2. CABD
3. DABC
4. ADBC

**Q:73** Given below are four jumbled sentences. Select the option that gives their correct order.

A: The time spent only enjoying is appreciated only at that moment or maybe some days or may be

some months.

B: The way he utilizes it makes the time worth being remembered.

C: Time is very important in a student's life.

D: The time spent making your career is remembered throughout your life.

1. CBDA
2. BDAC
3. CABD
4. BDCA

**Q:74** In the sentence identify the segment which contains the grammatical error.

Mr. Sharma with his daughter and younger brother were present at the airport to welcome the guest.

1. welcome the guest.
2. and younger brother were
3. present at the airport to
4. Mr. Sharma with his daughter

**Q:75** In the sentence identify the segment which contains the grammatical error.

If you will finish your homework on time I will allow you to play the game.

1. your homework on
2. time I will allow
3. If you will finish
4. you to play the game

**Q:76** On 29th November, the Union Cabinet chaired by the Prime Minister approved the PM JANMAN scheme for the welfare of \_\_\_\_\_.

1. Transgenders
2. Tribals
3. Schedule Caste
4. Other Backward Caste

**Q:77** Which of the following is the highest award (in the order of precedence) for military services in India?

1. Ashok Chakra
2. Kirti Chakra
3. Param Vir Chakra
4. Veer Chakra

**Q:78** Which of the following tissues can be



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English

found lining some internal cavities and organs?

1. Muscle tissue
2. Epithelial tissue
3. Connective tissue
4. Nervous tissue

**Q:79** Name the largest burial site of the Harappan Civilisation found in the Rohtak district.

1. Farmana Khas
2. Bhirrana
3. Madina
4. Rakhigarhi

**Q:80** Central Sector Scheme to provide Drones to \_\_\_\_\_ was approved by the Union Cabinet for Agricultural purposes.

1. Women SHGs
2. Farmers
3. Anganwadi workers
4. Gram Sabha

**Q:81** Among the options provided, which National Park is the largest protected area within the Eastern Himalayan sub-region?

1. Bandipur National Park
2. Keibul Lamjao National Park
3. Dudhwa National Park
4. Namdapha National Park

**Q:82** Atanu Das is associated with which of the following sports?

1. Archery
2. Sprinter
3. Wrestler
4. Cricket

**Q:83** What was the capital city of Akbar during the last years of his rule?

1. Fatehpur Sikri
2. Allahabad
3. Agra
4. Lahore

**Q:84** Which among the following Militant groups signed a Peace Agreement with the Government

of India and Manipur for the first time in North East's history?

1. UNLF
2. MNRF
3. MCP-M
4. KIA

**Q:85** \_\_\_\_\_ soils are also known as 'regur'.

1. Alluvial
2. Black
3. Desert
4. Mountain

**Q:86** What is the currency of Myanmar?

1. Kyat
2. Riel
3. Euro
4. Baht

**Q:87** On which of the following river Nagarjuna Sagar Dam is situated?

1. Godavari
2. Krishna
3. Cauvery
4. Mahanadi

**Q:88** What is the highest allowable number of nominated members in the Lok Sabha?

1. 2
2. 0
3. 1
4. 23

**Q:89** What is the male part of the plant?

1. Petals
2. Stamen
3. Carpels
4. Sepals

**Q:90** Under which Article can the Parliament amend the Constitution?

1. Article 374
2. Article 368
3. Article 74
4. Article 269



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English

**Q:91** Which of the following festivals is associated with Arunachal Pradesh?

1. Pongal
2. Ugadi
3. Wangala
4. Solung

**Q:92** The five-year plan was introduced in India in which year?

1. 1951
2. 1947
3. 1955
4. 1958

**Q:93** Who among the following is India's first Minister of Industry and Supply?

1. Shyama Prasad Mukherjee
2. Chakravarti Rajagopalachari
3. Abul Kalam Azad
4. Jagjivan Ram

**Q:94** A Tripartite MoU was signed between National Geospatial Programme-DST, NIGST, Survey of India and \_\_\_\_\_ to establish a Center of Excellence to foster Geospatial Innovation and Research.

1. IIT Kanpur
2. IIT Madras
3. IIT Kharagpur
4. IIT Tirupati

**Q:95** Which of the following is NOT an example of non-uniform motion?

1. A man running a 800 m race
2. The rotation of the blades of a ceiling fan
3. A car moving on a crowded street
4. A person jogging in a park

**Q:96** What is the Gini coefficient used for?

1. To measure profit and loss
2. To measure income inequality
3. To measure distribution of income
4. To measure income equality

**Q:97** Who started the Mahad Satyagraha in Maharashtra in 1927?

1. Surya Sen
2. Ram Prasad Bismil
3. Jawaharlal Nehru
4. B.R. Ambedkar

**Q:98** Which of the following is a radioactive element?

1. Polonium
2. Carbon
3. Tungsten
4. Zinc

**Q:99** Which of the following temple is a UNESCO world heritage site?

1. Lingaraja temple, Bhubaneswar
2. Sun temple, Konark
3. Jagannath temple, Puri
4. Gangaikonda Cholapuram temple, Thanjavur

**Q:100** What is the IUCN status of the recently discovered Saurauia Punduana plant from Manipur?

1. Vulnerable
2. Endangered
3. Critically Endangered
4. Near Threatened



### Answer Key

1. (2)	2. (3)	3. (2)	4. (4)	5. (3)
6. (1)	7. (2)	8. (3)	9. (4)	10. (2)
11. (1)	12. (2)	13. (1)	14. (1)	15. (1)
16. (3)	17. (2)	18. (3)	19. (2)	20. (1)
21. (2)	22. (4)	23. (1)	24. (2)	25. (4)
26. (3)	27. (3)	28. (1)	29. (1)	30. (4)
31. (3)	32. (2)	33. (1)	34. (1)	35. (1)
36. (2)	37. (4)	38. (3)	39. (1)	40. (2)
41. (3)	42. (2)	43. (4)	44. (3)	45. (2)
46. (3)	47. (1)	48. (1)	49. (2)	50. (2)
51. (3)	52. (3)	53. (2)	54. (4)	55. (2)
56. (4)	57. (2)	58. (4)	59. (1)	60. (1)
61. (4)	62. (4)	63. (4)	64. (3)	65. (4)
66. (1)	67. (2)	68. (3)	69. (1)	70. (4)
71. (3)	72. (2)	73. (1)	74. (2)	75. (3)
76. (2)	77. (3)	78. (2)	79. (1)	80. (1)
81. (4)	82. (1)	83. (3)	84. (1)	85. (2)
86. (1)	87. (2)	88. (2)	89. (2)	90. (2)
91. (4)	92. (1)	93. (1)	94. (4)	95. (2)
96. (2)	97. (4)	98. (1)	99. (2)	100. (3)

### Answers and Solutions

**Q:1** The correct answer is **Option 2** i.e. **10.245**.

$$\Rightarrow 1.45\% \text{ of } 260 + 1.75\% \text{ of } 370 = ?$$

$$\Rightarrow 1.45(260)/100 + 1.75(370)/100$$

$$\Rightarrow 377/100 + 647.5/100$$

$$\Rightarrow 3.77 + 6.475$$

$$\Rightarrow 10.245$$

**Q:2** The correct answer is **option 3** i.e. **64 : 99**.

Diagonal of square =  $\sqrt{2}a$

$$\Rightarrow \sqrt{2}a = 16\sqrt{2}$$

$$\Rightarrow a = 16$$

Area of square =  $(a)^2 = (16 \times 16) = 256$

Diameter of circle = 126

Radius = 63

Circumference of circle =  $2\pi r = 2 \times 22/7 \times 63 = 396$

Ratio =  $256/396 = 64 : 99$

**Q:3** The correct answer is **option 2** i.e. **141°**.

QMSN is a quadrilateral,

$$\Rightarrow \angle QNM + \angle QMN = 180^\circ \text{ then,}$$

$$\Rightarrow \angle QNM + \angle MSN = 180^\circ$$

$$\Rightarrow 78^\circ + \angle MSN = 180^\circ$$

$$\Rightarrow \angle MSN = 102^\circ$$

$$\Rightarrow \angle MSN = \angle RSP = 102^\circ \text{ [vertically opposite angles]}$$

In triangle RSP

$$\text{If } \angle RSP = 102^\circ \text{ then,}$$

$$\Rightarrow \angle ROP = 1/2 \times \angle RSP + 90^\circ$$

$$\Rightarrow \angle ROP = 1/2 \times 102^\circ + 90^\circ$$

$$\Rightarrow \angle ROP = (51^\circ + 90^\circ) = 141^\circ$$

**Q:4** The correct answer is **option 4** i.e. **-31**.

$$\sqrt{x^2 + y^2 + z^2} = 27$$

$$\Rightarrow x^2 + y^2 + z^2 = 729$$

$$\Rightarrow xy + yz + zx = 116$$

$$\Rightarrow (x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$$

$$\Rightarrow (x + y + z)^2 = 729 + 2 \times 116$$

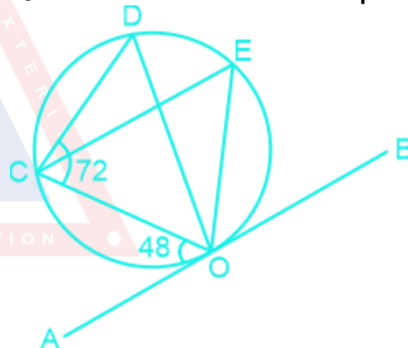
$$\Rightarrow (x + y + z)^2 = 961$$

$$\Rightarrow (x + y + z) = \pm 31$$

$$\text{We know that, } (x + y + z) < 0$$

$$\text{So, } (x + y + z) = -31$$

**Q:5** The correct answer is **option 3** i.e. **120°**.



Given

$$\Rightarrow \angle DCO = 72^\circ \text{ and, } \angle AOC = 48^\circ$$

$$\Rightarrow \angle DCO = \angle DOB = 72^\circ \text{ [alternate segment]}$$

$$\Rightarrow \angle AOC = 48^\circ$$

AB is a straight line

$$\Rightarrow \angle AOC + \angle COD + \angle DOB = 180^\circ$$

$$\Rightarrow 48^\circ + \angle COD + 72^\circ = 180^\circ$$

$$\Rightarrow \angle COD = 60^\circ$$

Now, In triangle COD

$$\Rightarrow \angle DCO + \angle COD + \angle ODC = 180^\circ$$

$$\Rightarrow 72^\circ + 60^\circ + \angle ODC = 180^\circ$$

$$\Rightarrow \angle ODC = 48^\circ$$

$$\Rightarrow \angle ODC = \angle CEO = 48^\circ$$

$$\text{Value of } \angle DOB + \angle CEO = 72^\circ + 48^\circ = 120^\circ$$

**Q:6** The correct answer is **option 1** i.e. **21**.

**Calculations:**

LCM of 27 and 20 = 540

The least number =  $(540k + 10)$

Hence, for the least number value of  $k = 1$

$\Rightarrow 540 \times 1 + 10 = 550$

The value of  $p = 550$

The closest square to 550 = 529 (square of 23)

Therefore, the least number to be subtracted to make it a perfect square =  $550 - 529 = 21$

**Q:7** The correct answer is **option 2** i.e. **Cosec<sup>2</sup>θ + 1**.

$$\begin{aligned} & \frac{\sec\theta}{\sec\theta-1} + \frac{\sec\theta}{\sec\theta+1} - \cot^2\theta \\ &= \frac{\sec^2\theta + \sec\theta + \sec^2\theta - \sec\theta}{\sec^2\theta - 1} - \cot^2\theta \\ &= \frac{2\sec^2\theta}{\tan^2\theta} - \cot^2\theta \\ &= \frac{2\sec^2\theta - 1}{\tan^2\theta} \\ &= \frac{2 - \cos^2\theta}{\sin^2\theta} \\ &= 2\text{Cosec}^2\theta - \cot^2\theta \\ &= 2\text{Cosec}^2\theta - \text{Cosec}^2\theta + 1 \quad \{\text{We know that } 1 + \cot^2\theta = \text{cosec}^2\theta\} \\ &= \text{Cosec}^2\theta + 1 \end{aligned}$$

**Q:8** The correct answer is **option 3** i.e. **36 km/hr**.

**Given:**

Speed of A = 48 km/hr

After crossing each other A and B complete their journey in 3.6 hours and 6.4 hours respectively.

**Concept Used:**

If two objects are moving towards each other with the speeds  $s_1$  and  $s_2$ , after crossing each other they take  $t_1$  and  $t_2$  time to complete their journey, then

$$\frac{s_1}{s_2} = \sqrt{\frac{t_2}{t_1}} \dots (i)$$

**Explanation:**

According to the given question,

$s_1 = 48$  km/hr

$t_1 = 3.6$  hours

$t_2 = 6.4$  hours

Now, using equation (i), we get

$$\begin{aligned} \frac{48}{s_2} &= \sqrt{\frac{6.4}{3.6}} \\ \Rightarrow \frac{48}{s_2} &= \frac{4}{3} \end{aligned}$$

$$\Rightarrow s_2 = 12 \times 3$$

$$\Rightarrow s_2 = 36$$

Hence the speed of B is 36 km/hr.

**Q:9** The correct answer is **option 4** i.e. **864.5**.

Total dengue % = 25%

% of male dengue patients =  $\frac{1}{5} \times 25 = 5\%$

5% of 49500 = 2475

Increased by 125 =  $(2475 + 125) = 2600$

Now,

total Corona % = 33%

% of children corona patients =  $\frac{4}{11} \times 33 = 12\%$

12% of 49500 = 5940

Increased by 105 =  $(5940 + 105) = 6045$

Average =  $(2600 + 6045)/2 = 4322.5$

Value of one-fifth of their average =  $\frac{1}{5} \times 4322.5 = 864.5$

**Q:10** The correct answer is **option 2** i.e. **3.5**

A number 17% more than  $x = (100 + 17)/100 \times x$

$$\Rightarrow 1.17x$$

A number 35% less than  $y = (100 - 35)/100 \times y$

$$\Rightarrow 0.65y$$

Given

$$\Rightarrow 1.17x = 0.65y$$

$$\Rightarrow 9x = 5y$$

$$\Rightarrow y = 1.8x$$

$$\Rightarrow (y + x)/(y - x) = (1.8x + x)/(1.8x - x)$$

$$\Rightarrow 2.8/0.8 = 3.5$$

**Q:11** The correct answer is **Option 1** i.e. **300 m**.

Let  $L$  be the length of the train in km and  $s$  be its speed in km/hr

While passing the pole -

Distance covered =  $L$  km

Time =  $30/3600$  hrs

$$\text{Speed } (s) = L/(30/3600) = 120L \dots (1)$$

While passing the platform,

Distance covered = length of train + length of platform

Distance =  $(L + 0.1)$  km

Time =  $40/3600$  hrs

$$\text{Speed } (s) = (L + 0.1)/(40/3600) = 90L + 9 \dots (2)$$

From eq(1) and (2) -

$$120L = 90L + 9$$

$$30L = 9$$



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$$L = 9/30 = 0.3 \text{ km} = 300 \text{ m}$$

**Q:12** The correct answer is **option 2** i.e. **10 : 21**.

The present age of his father = 55

The ratio of the present age of a boy and his father = 2 : 5

Let,

The present age of a boy =  $2x$

The present age of his father =  $5x = 55 \Rightarrow x = 11$

The present age of a boy =  $(2 \times x) = (2 \times 11) = 22$

After 8 years the age of boy = 30 and, his father's age = 63

The ratio of their age after 8 years =  $30/63 = 10/21$   
 $= 10 : 21$

**Q:13** The correct answer is **option 1** i.e. **120 Days**.

$$\Rightarrow (10M + 12W + 15C) = 62 \text{ Days}$$

LCM of 10, 15, and 15 = 60

Total work =  $62 \times 60$

Efficiency of man =  $60/10 = 6$

Efficiency of women =  $60/12 = 5$

Efficiency of child =  $60/15 = 4$

Now

$$\Rightarrow (2M + 3W + 1C) = x \text{ days}$$

$$\Rightarrow (2 \times 6) + (3 \times 5) + (1 \times 4) = (12 + 15 + 4) = 31 \text{ unit per day}$$

$$\text{So, Required days} = (62 \times 60)/31 = 120 \text{ Days}$$

**Q:14** The correct answer is **option 1** i.e. **Rs. 648**.

Cumulative discount for 2 successive discounts of  $x\%$  and  $y\%$

$$= x + y - xy/100$$

Hence,

Cumulative discount for 2 successive discounts of 20% and 10%

$$= 10 + 20 - 200/100$$

$$= 28\%$$

Marked price = Rs. 900

Hence,

$$SP = 900 \times 0.72 = \text{Rs. 648}$$

**Q:15** The correct answer is **option 1** i.e. **Rs.1655**

Interest rate when compounded semi-annually =  $20/2$

$$\Rightarrow 10\%$$

Time frame:  $1.5 \times 2$

$$\Rightarrow 3$$

$$\text{Amount} = P(1 + r/100)^n$$

Interest = Amount - Principal

$$\Rightarrow 5000(1 + 10/100)^3$$

$$\Rightarrow 5000(1.1)^3$$

$$\Rightarrow 5000 \times 1.331$$

$$\Rightarrow 6655$$

$$\text{Interest} = 6655 - 5000 = \text{Rs.1655}$$

**Q:16** The correct answer is **option 3** i.e. **20**

Quantity of pulp in the fresh fruits = 20%

$$\Rightarrow 20\% \text{ of } 70$$

$$\Rightarrow 14\text{kg}$$

This 14kg will be same for the dry fruit.

Quantity of pulp in the dry fruits = 70%

$$\Rightarrow 70\% \text{ of dry fruit} = 14\text{kg}$$

$$\Rightarrow \text{Dry fruit} = 20\text{kg}$$

**Q:17** The correct answer is **option 2** i.e. **Rs. 4824**.

Total charged paid by user for 2<sup>nd</sup> call =  $64 \times$

$$(0.75 \times 60) = \text{Rs. 2880}$$

Total charged paid by user for 5<sup>th</sup> call =  $72 \times (0.45$

$$\times 60) = \text{Rs. 1944}$$

Hence,

$$\text{Total charges} = (2880 + 1944) = \text{Rs. 4824}$$

**Q:18** The correct answer is **option 3** i.e. **48 paisa**.

Total charges paid by customer for 1<sup>st</sup> call =  $(56 \times 15) = 840 \text{ paisa} = \text{Rs. 8.4}$

Total charges paid by customer for 6<sup>th</sup> call =  $(66 \times 12) = 792 \text{ paisa} = \text{Rs. 7.92}$

Hence,

$$\text{Required difference} = (8.4 - 7.92) = \text{Rs } 0.48 = 48 \text{ paisa}$$

**Q:19** The correct answer is **option 2** i.e. **10,000**

**Given :**

80% of the voters casted their votes

5% votes of casted votes were declared invalid

A candidate got 50% of the total valid votes that is 3800

**Calculations :**

$$\Rightarrow \text{Let the total votes be } 100x$$

$$\Rightarrow \text{casted votes} = 80x$$

$$\Rightarrow \text{Valid votes} = (95/100) \times 80x = 76x$$

A candidate got 50% of total valid votes =  $(50/100) \times 76x$

$$\Rightarrow 3800 = 38x$$



$$\Rightarrow x = 100$$

$$\text{Total votes enrolled} = 100x$$

$$\Rightarrow 100 \times 100$$

$$\Rightarrow 10,000$$

**Q:20** The correct answer is **option 1** i.e. **144**.

Let, the number be  $2x$ ,  $3x$  and  $4x$

So, HCF of  $2x$ ,  $3x$  and  $4x = x$

But, HCF = 12 (Given)

So,  $x = 12$

Numbers =  $(2 \times 12)$ ,  $(3 \times 12)$  and  $(4 \times 12) = 24, 36$  and  $48$

Now,

LCM of 24, 36 and 48

$$\Rightarrow 24 = 2^3 \times 3$$

$$\Rightarrow 36 = 2^2 \times 3^2$$

$$\Rightarrow 48 = 2^4 \times 3$$

$$\text{Hence, LCM of } 24, 36 \text{ and } 48 = 2^4 \times 3^2 = (16 \times 9) = 144$$

**Q:21** The correct answer is **option 2** i.e. **1**.

Assume  $a/b = x$  and solve by making an equation

$$\Rightarrow x^3 + 1 = (x + 1)(x^2 - x + 1)$$

Let  $a/b = x$  and  $b/a = 1/x$  Then by the given question

$$\Rightarrow x^2 + 1/x^2 = 1$$

$$\Rightarrow x^4 - x^2 + 1 = 0$$

Multiply  $(x^2 + 1)$  on both sides

$$\Rightarrow (x^2 + 1)(x^4 - x^2 + 1) = 0$$

$$\Rightarrow (x^2)^3 + 1 = 0$$

$$\Rightarrow x^6 = -1 \text{ Here, } x \text{ is not a real number.}$$

So,

$$\Rightarrow (a/b)^6 = -1$$

$$\Rightarrow (a/b)^{12} = 1$$

**Q:22** The correct answer is **option 4** i.e. **Rs. 4800**

Initial profit = Rs. 9000

A got an additional income of 20% = 20% of 9000

$$\Rightarrow 1800$$

Rest profit =  $9000 - 1800$

$$\Rightarrow 7200$$

$$\text{Profit of A} = 7200 \times 5/(5 + 7)$$

$$\Rightarrow 3000$$

$$\text{Total profit of A} = 3000 + 1800$$

$$\Rightarrow \text{Rs. 4800}$$

**Q:23** The correct answer is **option 1** i.e. **9 cm<sup>3</sup>**.

The side of the tetrahedron is  $3\sqrt{2}$  cm.

The volume of the tetrahedron =  $\sqrt{2}/12 \times \text{side}^3$

$$\text{Volume of the tetrahedron} = \sqrt{2}/12 \times 3\sqrt{2} \times 3\sqrt{2} \times 3\sqrt{2}$$

$$= 9 \text{ cm}^3$$

**Q:24** The correct answer is **option 2** i.e. **Rs 44000**.

Manisha : Rishabh = 11 : 13

After inc. both by Rs 500 the new ratio becomes = 49 : 57

Let the original salary of Manisha and Rishabh be  $11x$  and  $13x$  respectively then,

$$\Rightarrow (11x + 5000) / (13x + 5000) = 49/57$$

$$\Rightarrow 57 \times (11x + 5000) = 49 \times (13x + 5000)$$

$$\Rightarrow 637x - 627x = 5000 (57 - 49)$$

$$\Rightarrow 10x = 5000 \times 8$$

$$\Rightarrow x = 40000/10 = 4000$$

$$\text{Manisha's salary} = 11x = (11 \times 4000) = \text{Rs 44000}$$

**Q:25** The correct answer is **option 4** i.e. **223/36**

$$x = 27^{1/6} - \sqrt{6\frac{3}{4}}$$

$$= \sqrt{3} - \sqrt{\frac{27}{4}}$$

$$= \sqrt{3} - \frac{3}{2}\sqrt{3}$$

$$= \frac{-\sqrt{3}}{2}$$

$$x^2 = 3/4$$

$$y = \frac{\sqrt{45} + \sqrt{605} + \sqrt{245}}{\sqrt{80} + \sqrt{125}}$$

$$y = \frac{3\sqrt{5} + 11\sqrt{5} + 7\sqrt{5}}{4\sqrt{5} + 5\sqrt{5}}$$

$$y = \frac{21\sqrt{5}}{\frac{9}{5}}$$

$$y^2 = 2205/405 = 49/9$$

$$\text{Now, } x^2 + y^2 = 3/4 + 49/9 = (196 + 27)/36 = 223/36$$

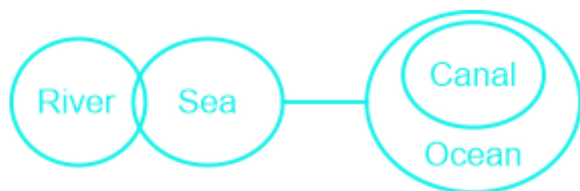
**Q:26** The correct answer is **Option 3** i.e. **Only III follows**

The possible diagram from the above statements-

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### Conclusions:

- I. All Canal is Sea – **False** – all canal is ocean and no sea is ocean, hence no canal is ocean.
  - II. Some River are Ocean – **False** – No direct relation between river and ocean.
  - III. Some Canal are River is a possibility – **True** – No direct relation between canal and river, hence in case of possibility it is true.
- Hence, the correct answer is **Only III follows**.

**Q:27** The correct answer is **Option 3** i.e. **UDOT**

The logic followed here is,  
Consonants increased by 1 while vowels remain the same.

HEQI : IERI :: EGOD : EHOE :: UCNS : ?

H → H + 1 = I

E → E

Q → Q + 1 = R

I → I

Similarly,

EGOD : EHOE

E → E

G → G + 1 = H

O → O

D → D + 1 = E

So, UCNS : ?

U → U

C → C + 1 = D

N → N + 1 = O

S → S + 1 = T

Hence, the correct answer is **UDOT**.

**Q:28** The correct answer is **Option 1** i.e. **M + K # D & L**

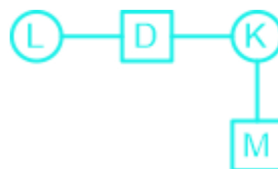
Option 1:

M + K – M is the son of K

K # D – K is the sister of D

D & L – D is the brother of L

Family Tree–



Clearly, L is the aunt of M.

There is no need to solve further options.

Hence, the correct answer is **M + K # D & L**.

**Q:29** The correct answer is **Option 1** i.e. **LM**

Given:

BB, CX, EA, HW, LM

Pattern:

B + 1 = C, B + 1 = C ; opposite letter of C is X

C + 2 = E, X + 2 = Z; opposite letter of Z is A

E + 3 = H, A + 3 = D; opposite letter of D is W

H + 4 = L, W + 4 = A; opposite letter of A is Z

Here, the term **LM** is wrong.

Hence, **LM** is the correct answer.

**Q:30** The correct answer is **Option 4** i.e. **HJQ**.

DFR → D + 2 = F → F + 3 = I (9) ⇔ R

JLL → J + 2 = L → L + 3 = O (15) ⇔ L

VXZ → V + 2 = X → X + 3 = A (1) ⇔ Z

HJQ → H + 2 = J → J + 3 = M (13) ⇔ **N NOT Q**

Hence, **HJQ** is the odd one out.

So, the correct answer is **HJQ**.

**Q:31** The correct answer is **Option 3** i.e. **512**

**Logic:** The following logic is used

(182 : 36)

= 18 × 2 = 36

(323 : 96)

= 32 × 3 = 96

Similarly,

**648 : ?**

64 × 8 = 512

Hence, **512** is the correct answer.

**Q:32** The correct answer is **Option 2** i.e. **2, 4, 5, 3, 1**

The correct dictionary order will be:

2. Insider

4. Instinct

5. Issuances

3. Insulate

1. Insurer

So, **2, 4, 5, 3, 1** represent the correct dictionary order.

Hence, the correct answer is **2, 4, 5, 3, 1**.

**Q:33** The correct answer is **Option 1** i.e. **Grandfather**

After decoding the statement,

T @ Q # P % X © Y

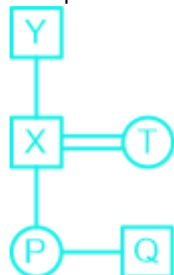
T @ Q → T is the mother of Q

Q # P → Q is the brother of P

P % X → P is the daughter of X

X © Y → X is the son of Y

The possible family tree is,



Clearly, Y is the grandfather of Q.

Hence, the correct answer is **Grandfather**.

**Q:34** The correct answer is **Option 1** i.e. **1118913**.

The logic is followed as follows:

RGAD → DAGR

D = 4

A = 1

G = 7

R = 18

DGAR = 41718

Similarly,

MIRK → KRIM

K = 11

R = 18

I = 9

M = 13

KRIM = 1118913

Hence, the correct answer is **1118913**.

**Q:35** The correct answer is **Option 1** i.e. **A**.



The logic used here is:

1. Single arrow is moving in a clockwise direction along the sides of the square.

2. Double arrow is moving in an anticlockwise direction along the sides of the square.

Hence, the correct answer is **A**.

**Q:36** The correct answer is **Option 2**.

Option figure 2 is embedded in the question figure, as shown below:



Hence, the correct answer is **Option 2**.

**Q:37** The correct answer is **Option 4** i.e. **504**.

**Given series:** 214, 304, 376, 432, 474, ?

The pattern of the series is:

$$214 + 10 \times 9 = 304$$

$$304 + 9 \times 8 = 376$$

$$376 + 8 \times 7 = 432$$

$$432 + 7 \times 6 = 474$$

$$474 + 6 \times 5 = 504$$

Hence, **504** will complete the series.

So, the correct answer is **504**.

**Q:38** The correct answer is **Option 3** i.e. **+ and ×**

**Given equation:**  $85 \div 17 + 8 - 5 \times 2 = 37$

**Option 3: + and ×**

After interchanging the expression becomes:

$$85 \div 17 \times 8 - 5 + 2 = 37$$

$$= 5 \times 8 - 5 + 2$$

$$= 40 - 5 + 2$$

$$= 42 - 5$$

$$= 37 \text{ is equal to } 37.$$

Hence, the correct answer is **+ and ×**.

**Q:39** The correct answer is **Option 1** i.e. **P<sub>2</sub>\$W**

**Given series** = P<sub>5</sub>@R, P<sub>4</sub>#S, P<sub>3</sub>%T, P<sub>2</sub>\$W, P<sub>1</sub>\*V

Logic: P is static, numbers are decreasing by 1, every time a new symbol is used and the last letter is increasing by 1.

So, in this way, 4th term would be P<sub>2</sub>\$U, not P<sub>2</sub>\$W.



Hence, the correct answer is **P<sub>2</sub>\$W**.

**Q:40** The correct answer is **Option 2** i.e. +, ÷, -, ×, =

**Given equation:**  $24 * 40 * 5 * 10 * 2 * 12$

**Option 2:** +, ÷, -, ×, =

$$24 + 40 \div 5 - 10 \times 2 = 12$$

$$= 24 + 8 - 20$$

$$= 32 - 20$$

$$= 12 \text{ is equal to } 12.$$

Hence, the correct answer is +, ÷, -, ×, =.

**Q:41** The correct answer is **Option 3** i.e. 4

Here the common faces with the number 4, are in the same positions. Hence 2 is opposite to 6 and 1 is opposite to 5. Therefore, 3 is opposite to 4.

Hence, the correct answer is 4.

**Q:42** The correct answer is **Option 2** i.e. **Weightlifter**

Mary Kom : Boxing :: Yuvraj Singh : Cricket ::  
Mirabai Chanu : ?

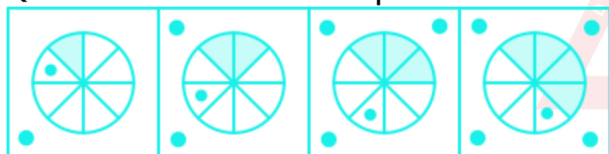
Mary Kom is the sportsperson of Boxing.

Yuvraj Singh is the sports person of Cricket.

Similarly, Mirabai Chanu is a Weightlifter.

Hence, the correct answer is **Weightlifter**.

**Q:43** The correct answer is **Option 4** i.e. **D**.



The logic used here is:

1. Shaded dot that is present outside of the circle is increasing by 1 on the corners of the square.

2. Shaded part of the circle is also increasing by 1 in each step.

3. Shaded dot present inside the circle is moving forward by 1 step in an anticlockwise direction.

So, option 4 has the correct figure.

Hence, the correct answer is **D**.

**Q:44** The correct answer is **Option 3** i.e. **35**

The logic used here is:

1st column: 2, 3, 1, 14

$$2^2 + 3^2 + 1^2 = 4 + 9 + 1 = 14$$

2nd column: 5, 6, 2, 65

$$5^2 + 6^2 + 2^2 = 25 + 36 + 4 = 65$$

3rd column: 3, 5, 1, ?

$$3^2 + 5^2 + 1^2 = 9 + 25 + 1 = 35$$

Hence, **35** is the correct answer.

**Q:45** The correct answer is **Option 2** i.e. **222G**

The logic:

$$111A = 1 \times 1 \times 1 = 1 \text{ (A)}$$

$$222G = 2 \times 2 \times 2 = 8 \text{ (H)}$$

$$333D = 3 \times 3 \times 3 = 27 = 2 \times 7 = 14 = 1 \times 4 = 4 \text{ (D)}$$

$$444H = 4 \times 4 \times 4 = 64 = 6 \times 4 = 24 = 2 \times 4 = 8 \text{ (H)}$$

So, **222G** is the odd one out.

Hence, the correct answer is **222G**.

**Q:46** The correct answer is **Option 3** i.e. **xq**

Here, from the given codes are:

Happy and you — ra ks bn

Make it happy — ks uc yf

Before you make — bn yf xq

Happy- ks

Make- yf

It- uc

You- bn

And- ra

Before- xq

So, 'Before' is coded as 'xq'.

Hence, the correct answer is **xq**.

**Q:47** The correct answer is **Option 1** i.e.

**QY4ML**

The mirror image of the question figure is shown below:

**JM4Y9 QY4ML**

Since the mirror is placed right to the question figure, the right-hand side of the original image will be now the left-hand side of the mirror image.

Hence, **Option 1** is the correct answer.

**Q:48** The correct answer is **Option 1** i.e. **29**

As per the question

$$75 \times 15 + 10 \div 17 - 2 \text{ can be decoded as}$$

$$\begin{aligned}
 &75 \div 15 - 10 + 17 \times 2 \\
 &= 5 - 10 + 34 \\
 &= 39 - 10 \\
 &= 29
 \end{aligned}$$

Hence, the correct answer is **29**.

**Q:49** The correct answer is **Option 2** i.e. **Education**

BA : Fine Arts :: B Tech : Engineer :: B.ed : ?

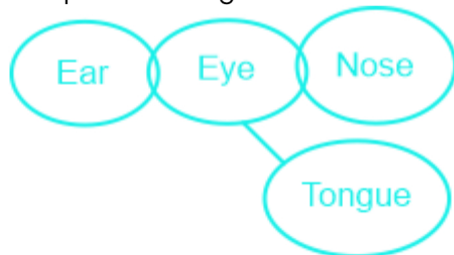
BA is related to Fine Arts and B Tech is related to Engineering.

Similarly, B.ed is related to education and teaching.

Hence, the correct answer is **Education**.

**Q:50** The correct answer is **Option 2** i.e. **None follows**

The possible diagram from the above statements-



**Conclusions:**

I. All noses are tongue is a possibility – **False** – some noses are eye and no eye is the tongue, hence some noses are definitely not a tongue.

II. No ear is tongue – **False** – No direct relation between ear and nose

III. All ears are tongue – **False** – No direct relation between ear and nose

Hence, the correct answer is **None follows**.

**Q:51** The correct answer is option 3 i.e. **No Improvement**.

- The underlined part of the statement is grammatically correct in itself.
- Hence, the chosen option '**No Improvement**' will be the correct choice.

**Correct Sentence:-**

*At this hour of the pandemic, the only choice we have is to handle situations with wisdom that can help us calm our nerves.*

**Q:52** The correct answer is option 3 i.e. **committed many mischiefs**.

- The verb '**Committed**' is used in the case of the noun '**Mistake/Mischiefs**'.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

**Correct Sentence:-**

*The people of this village have committed many mischiefs.*

**Q:53** The correct answer is option 2 i.e. **applied**.  
**Let's have a look at the meaning of the given options:-**

- **applied**- to use a word, a name, etc. to describe somebody/something.
- **allowed**- to give permission for somebody/something to do something or for something to happen.
- **altered**- to make something different in some way, but without changing it completely; to become different.
- **appointed**- to choose somebody for a job or position.

'Applied' which means '**to use a word, a name, etc. to describe somebody/something**' fits in the context appropriately.

**Correct Sentence:-**

*Have you ever applied for a job in the Edu-tech company?*

**Q:54** The correct answer is option 4 i.e. **their**.

- The subject of the given statement is '**Employees**' which is plural hence, the possessive pronoun for this will be '**Their**'.
- The chosen option is '**Their**' hence, it will suit the given blank.

**Correct Sentence:-**

*All the employees should express their candid views in the meeting without any fear.*

**Q:55** The correct answer is option 2 i.e. **I was introduced to Radha's friends last week**.

**Active voice** - Subject + v2 + object + other words.

**Passive voice** - Object + was/were + v3 + by + subject + other words.

As the chosen option follows this structure it will be the correct answer.



**Q:56** The correct answer is option 4 i.e. **The farmer told the reporter that the rainfall had been heavy till then.**

- As the reported speech is in '**Assertive sentence**' we need to make changes according to this.
- There will be a change in the reporting verb and it will be changed into '**Told**'.
- '**That**' will be used at the place of the '**Inverted comma**'.
- The tense of the reported verb will be changed into '**Past Perfect Tense**'.
- '**Now**' will be changed into '**Then**'.

As all the rules are followed by the chosen option it will be correct.

**Q:57** The correct answer is option 2 i.e. **Withhold.**  
Let's have a look at the meaning of the given options:-

- **Publicise**- to attract people's attention to something.
- **Promulgate**- to promote an idea, a belief, a cause, etc. among many people.
- **Withhold**- to refuse to give something to somebody.
- **Silence**- no noise or sound at all.
- **Disseminate**- to spread information, knowledge, ideas, etc. so that it reaches as many people as possible.

As the chosen option expresses the opposite meaning of the given word it will be correct.

**Q:58** The correct answer is option 4 i.e. **Normality.**  
Let's have a look at the meaning of the given options:-

- **Aberration**- a fact, an action or a way of behaving that is not typical, and that may be unacceptable.
- **Regularity**- the fact of something existing or happening repeatedly in a fixed pattern.
- **Commonality**- the state of sharing features or attributes.
- **Particularity**- the quality of being individual.
- **Normality**- the state of being normal.

As the chosen option expresses the opposite meaning of the given word it will be correct.

**Q:59** The correct answer is option 1 i.e. **Abundant.**

Correct Spelling of the misspelt word is : **ABUNDANT**

Let's have a look at the meaning of the given options:-

- **Abundant**- existing in very large quantities; more than enough.
- **Accelerate**- to go faster; to make something go faster or happen more quickly.
- **Accent**- a particular way of pronouncing words that are connected with the country, area or social class that you come from.
- **Accentuate**- to emphasize something or make something easier to notice.

As the chosen option is incorrectly spelt it will be the correct answer.

**Q:60** The correct answer is option 1 i.e. **Acceptance.**  
Let's have a look at the meaning of the given options:-

- **Acceptance**- the act of accepting or being accepted.
- **Accessibility**- able to be reached or easily got.
- **Accessible**- possible to be reached or entered.
- **Accessory**- an extra item that is added to something and is useful or attractive but not of great importance.

As the chosen option is incorrectly spelt it will be the correct answer.

**Q:61** The correct answer is option 4 i.e. **Obtain.**  
Let's have a look at the meaning of the given options:-

- **Derive**- to get something (especially a feeling or an advantage) from something.
- **Contain**- to have something inside or as part of itself.
- **Attain**- to succeed in getting or achieving something, especially after a lot of effort.
- **Sustain**- to keep somebody/something alive or healthy.
- **Obtain**- to get something.

As the chosen option expresses the best meaning of the given word it will be correct.



**Q:62** The correct answer is option 4 i.e. **Calamity**.

**Let's have a look at the meaning of the given options:-**

- **Catastrophe**- a sudden disaster that causes great suffering or damage.
- **Clumsy**- (used about a person) careless and likely to knock into, drop or break things.
- **Disease**- an illness of the body in humans, animals, or plants.
- **Rustic**- typical of the country or of country people; simple.
- **Calamity**- a terrible event that causes a lot of damage or harm.

**As the chosen option expresses the best meaning of the given word it will be correct.**

**Q:63** The correct answer is option 4 i.e. **Wasting time in useless effort**.

The meaning of the given idiom is:-

**Flogging a dead horse**- Wasting time in useless effort.

**As the meaning of the given idiom is the same as the chosen option it will be correct.**

**Q:64** The correct answer is option 3 i.e. **under suspicion**.

The meaning of the given idiom is:-

**Under a cloud**- under suspicion.

**As the meaning of the given idiom is the same as the chosen option it will be correct.**

**Q:65** The correct answer is option 4 i.e. **Abstruse**.

**Let's have a look at the meaning of the given options:-**

- **Credulous**- having or showing too great a readiness to believe things.
- **Depraved**- morally bad.
- **Plaque**- a flat piece of stone or metal, usually with names and dates on it, that is fixed on a wall in memory of a famous person or event.
- **Abstruse**- difficult to understand.

**As the chosen option expresses the meaning of the given group of words it will be the correct answer.**

**Q:66** The correct answer is option 1 i.e. **Panacea**.

**Let's have a look at the meaning of the given**

**options:-**

- **Panacea**- something that will cure all diseases or solve all problems and difficulties; a universal remedy.
- **Inertia**- a lack of energy; an inability to move or change.
- **Replica**- an exact copy of something.
- **Amnesia**- Loss of memory.

**As the chosen option expresses the meaning of the given group of words it will be the correct answer.**

**Q:67** The correct answer is option 2 i.e. **disorder**.

**Let's have a look at the meaning of the given options:-**

- **disorder**- an illness in which the mind or part of the body is not working properly.
- **virus**- a living thing, too small to be seen without a special instrument (microscope), that causes disease in people, animals and plants.
- **jumble**- to mix things together in a confused and untidy way.
- **bug**- an illness that is not very serious and that people get from each other.

**'Disorder'** which means **'an illness in which the mind or part of the body is not working properly'** fits the given blank appropriately.

**Hence, the chosen option will be correct.**

**Q:68** The correct answer is option 3 i.e. **described**.

- The given statement will be written in the passive voice as the subject of the statement is not the doer.
- **'Be + Past Participle'** is the correct form of the passive voice.
- The chosen option is a past participle hence.

**Hence, the chosen option will be correct.**

**Q:69** The correct answer is option 1 i.e. **with**.

- when **interfere** is followed by **in**, it means to get involved in something that doesn't concern you; when followed by **with**, it means to prevent something from being done.
- The statement is showing prevention hence, **'With'** will be the correct choice.

**Hence, the chosen option will be correct.**



Date : 10th Dec 2023

Weekly SSC Mock Test

English

Q:70 The correct answer is option 4 i.e. **daily**.  
Let's have a look at the meaning of the given options:-

- **daily**- done, made or happening every day.
- **order**- the way in which people or things are arranged in relation to each other.
- **usual**- happening or used most often.
- **common**- happening or found often or in many places; usual.

'Daily' which means 'done, made or happening every day' fits the given context appropriately.  
Hence, the chosen option will be correct.

Q:71 The correct answer is option 3 i.e. **productivity**.  
Let's have a look at the meaning of the given options:-

- **productivity**- the quality, state, or fact of being able to generate, create, enhance, or bring forth goods and services.
- **fertility**- the state or quality of being fertile.
- **capacity**- the amount that a container or space can hold.
- **ability**- the mental or physical power or skill that makes it possible to do something.

'Productivity' which means 'able to generate' fits the given context appropriately.  
Hence, the chosen option will be correct.

Q:72 The correct answer is option 2 i.e. **CABD**.  
▪ **Statement C** is independent and defines the theme of the paragraph '**Festivals**' hence, it will be the opening statement.  
▪ Only the chosen option starts with '**C**' hence, it will be our correct choice.  
▪ Now we have the final arrangement i.e. **CABD**.

The chosen option is the same as the final arrangement hence, it will be correct.

**Correct Arrangement:-**

The rich and vibrant festivals of India are a testimony to our diverse tradition and culture. Festivals in India revolve around Lord's birthdays, traditional myths, seasonal changes, relationships, and much more. Festivals are celebrated irrespective of religion or caste in the country, bringing people closer and creating a strong bond of humanity. Right from childhood, infants in India are part of every festival celebration in the house.

Some common rules that help while solving the Para Jumbles:-

- Read the paragraph **carefully** and try to **comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
- Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
- Try to **identify the mandatory pairs**. Two sentences can be connected through various connectors.
- If a statement starts with **Pronoun**, find the **noun** for which the pronoun is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Q:73 The correct answer is option 1 i.e. **CBDA**.

- **Statement C** is independent and defines the theme of the paragraph '**Time**' hence, it will be the opening statement.
- **Statement B** contains the pronoun '**He**' that is being used for the **student** hence, it will come after C.
- **Statement D and A** both talks about the time hence, they will come respectively.
- Now we have the final arrangement i.e. **CBDA**.

The chosen option is the same as the final arrangement hence, it will be correct.

**Correct Arrangement:-**

Time is very important in a student's life. The way he utilizes it makes the time worth being remembered. The time spent making your career is remembered throughout your life. The time spent only enjoying is appreciated only at that moment or maybe some days or may be some months.

Some common rules that help while solving the Para Jumbles:-

- Read the paragraph **carefully** and try to **comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
- Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
- Try to **identify the mandatory pairs**. Two sentences can be connected through various connectors.
- If a statement starts with **Pronoun**, find the **noun** for which the pronoun is used, both the



statements containing **noun** and **pronoun** will form a pair respectively.

**Q:74** The correct answer is option 2 i.e. **and younger brother were**.

- The error lies in **option 2** because of the wrong use of '**Subject-verb agreement**'.
- We need to replace '**Were**' with '**Was**' for making the statement grammatically correct.

**Grammatical concept:-**

- **Subjects** and **verbs** must **AGREE** with one another in number (**singular or plural**). Thus, if a **subject** is singular, its **verb** must also be singular; if a **subject** is plural, its **verb** must also be plural.
- If two or more nouns are connected with a preposition, only the first noun is considered as the subject of the statement.
- The subject of the statement will be '**Mr. Sharma**' which is '**singular**' hence, we need to use a singular verb here.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

**Correct Sentence:-**

Mr. Sharma with his daughter **and younger brother** **was** present at the airport to welcome the guest.

**Q:75** The correct answer is option 3 i.e. **If you will finish**.

- The error lies in **option 3** because of the wrong use of '**Tense**'.
- We need to replace '**Will finish**' with '**Finish**' for making the statement grammatically correct.

**Grammatical concept:-**

- A conditional refers to a possible condition and its probable result.
- In these sentences – the 'if clause is kept in the simple present, and the main clause is kept in the simple future'.
- Structure:- If ... **Simple Present** ..., ... **Simple Future**.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

**Correct Sentence:-**

**If you finish** your homework on time I will allow you to play the game.

**Q:76** Correct answer is **Option 2** i.e. **Tribals**.

The Union Cabinet chaired by Prime Minister Narendra Modi approved Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (PM JANMAN). The total outlay of the scheme is 24,104 crore. It will focus on 11 critical interventions through 9 line Ministries.

**Q:77** The correct answer is **option 3** i.e. **Param Vir Chakra**.

- The **Param Vir Chakra** is the highest award (in the order of precedence) for military service in India.
- It is India's highest military decoration awarded to those who display distinguished acts of valour during wartime.
- It was introduced on 26th January 1950 and has mostly been awarded posthumously.

**Q:78** The correct answer is **option 2** i.e. **Epithelial tissue**.

- **Epithelial tissue** also referred to as epithelium, refers to the sheets of cells that cover exterior surfaces of the body, line some internal cavities, organs, and passageways, and form certain glands.
- **Connective tissue**, as its name implies, binds the cells and organs of the body together and functions in the protection, support, and integration of all parts of the body.
- **Muscle tissue** is excitable, responding to stimulation and contracting to provide movement, and occurs in three major types: skeletal (voluntary) muscle, smooth muscle, and cardiac muscle in the heart.
- **Nervous tissue** is also excitable, allowing the propagation of electrochemical signals in the form of nerve impulses that communicate between different regions of the body.

**Q:79** The correct answer is **option 1** i.e. **Farmana Khas**.

- The **Farmana Khas** or Daksh Khera archaeological site has been found in the Mehram block of Rohtak district in the northern Indian state of Haryana, which is spread over an area of 18.5 hectares.
- It is 15 km from Rohtak and 60 km from Delhi.



**Q:80** Correct answer is **Option 1** i.e. **Women SHGs**.

The Union Cabinet approved the Central Sector Scheme for providing Drones to the Women Self Help Groups (SHGs). The scheme aims to provide drones to 15,000 selected Women SHGs during 2023-26 for providing rental services to farmers for Agriculture purpose.

**Q:81** The correct answer is **option 4** i.e. **Namdapha National Park**.

- **Namdapha National Park** is the largest protected area in the Eastern Himalayan biodiversity hotspot and is located in Arunachal Pradesh in Northeast India.
- It is also the largest national park in India in terms of area.
- It is located in the Eastern Himalayan sub-region and is recognized as one of the richest areas in biodiversity in India.
- The park harbours the northernmost lowland evergreen rainforests in the world at 27 N latitude.

**Q:82** The correct answer is **option 1** i.e. **Archery**.

- Atanu Das born on 5 April 1992 is an Indian **Archer**.
- In 2008 he made his international debut.
- Atanu won a bronze medal in the 2013 World Cup Mixed Team event organized in Colombia.
- Some other personalities from Archery are Deepika Kumari, Ankita Bhakat, Atanu Das, Abhishek Verma, Jyothi Surekha, and Abhinav Bindra.
- **Sprinter**– Hima Das
- **Wrestlers**– Vinesh Phogat, Bajrang Punia, Ravi Kumar, Anshu Malik
- **Cricketer**– Abishek Nayar, Shefali Verma, Yashasvi Jaiswal.

**Q:83** The correct answer is **Option 3** i.e. **Agra**.

- Akbar shifted his capital several times, initially his capital was in Agra, which he then shifted to Fatehpur Sikri after the victory at Gujarat in 1573.
- However, Fatehpur Sikri was soon abandoned due to lack of water supply and

Akbar moved his capital to Lahore in 1585.

- Finally, Akbar shifted his capital back to **Agra** in 1599 due to it being centrally located from his empire, and from where he resigned until his death.

**Q:84** Correct answer is **Option 1** i.e. **UNLF**.

In a historic development, the Government of India and Manipur signed a Peace Agreement with the United National Liberation Front (UNLF). It is the oldest valley based Armed group of Manipur. The agreement will usher a new era of peace in North East and Manipur. The UNLF was formed in 1964 and has been operating within and outside Indian Territory.

**Q:85** The correct answer is **option 2** i.e. **Black**.

- **Black soils** are known as 'regur' soil.
- They are derivatives of trap lava and are spread mostly across interior Gujarat, Maharashtra, Karnataka, and Madhya Pradesh on the Deccan lava plateau and the Malwa Plateau.
- Black soil is very suitable to grow cotton.

**Q:86** The correct answer is **option 1** i.e. **Kyat**.

- **Kyat** is the currency of Myanmar.
- Myanmar shares a border with India.
- It also shares a border with Bangladesh, China, Laos and Thailand.
- **Riel** is the currency of Cambodia.
- **Euro** is the currency of European countries like Austria, Belgium, Croatia, Finland, France, Greece, Ireland etc.
- **Baht** is the currency of Thailand.

**Q:87** The correct answer is **option 2** i.e. **Krishna**.

- Nagarjuna Sagar Dam is a masonry dam situated across the **Krishna River** at Nagarjuna Sagar which straddles the border between Nalgonda district in Telangana and Guntur district in Andhra Pradesh.
- The dam is a source of electricity generation for the national grid and provides irrigation water to the districts of Palnadu, Guntur, Nalgonda, Prakasam, Krishna and parts of West Godavari.

**Q:88** The correct answer is **option 2** i.e. **0**.

- The maximum number of nominated members to Lok Sabha is 0.
- In January 2020, the Anglo-Indian reserved seats in the Parliament and State Legislatures of India were discontinued by the 104th Constitutional Amendment Act, 2019.
- Earlier, the maximum number of nominated members to Lok Sabha is 2.

**Q:89** The correct answer is **option 2** i.e. **Stamen**.

- Most flowers have four main parts: Sepals, Petals, Stamens and Carpels.
- The **Stamens** are the male part whereas the **Carpels** are the female part of the flower.
- However, most flowers are Hermaphrodites which contain both male and female parts.

**Q:90** The correct answer is **option 2** i.e. **Article 368**.

- Part XX **Article 368** of the Constitution of India grants constituent power to make formal amendments and empowers the Parliament to amend the Constitution by way of addition, variation or repeal of any provision according to the procedure laid down therein, which is different from the procedure for ordinary legislation.
- This procedure ensures the sanctity of the Constitution of India and keeps a check on arbitrary power of the Parliament of India.

**Q:91** The correct answer is **option 4** i.e. **Solung**

- The **Solung** festival is a popular agriculture festival celebrated by the **Adi tribe** in the state of Arunachal Pradesh.
- The festival is celebrated at the beginning of September every year, after the sowing of the seeds, to seek a good harvest and prosperity.
- Solung festival last for five days and are divided into three parts: **Sopi-Yekpi, Binnayat and Ekop**.

States	Festivals
Tamil Nadu	Pongal
Meghalaya	Wangala
Andhra Pradesh	Ugadi

**Q:92** The correct answer is **option 1** i.e. **1951**.

- The first Indian Prime Minister, Jawaharlal Nehru, presented the first Five Year Plan to the Parliament of India and needed urgent attention.
- The First Five-Year Plan was launched in **1951** and mainly focused on the development of the primary sector, including investment in dams and irrigation.
- The First Five-Year Plan was based on the Harrod Domar model and emphasized increasing savings.

**Q:93** The correct answer is **Option 1** i.e. **Shyama Prasad Mukherjee**.

- **Shyama Prasad Mukherjee** was the first Minister of Industry and Supply in Union Cabinet.
- He was born in a Bengali Hindu family on 6 July 1901 in Kolkata.
- He was strongly opposed to Article 370.
- He founded the Bharatiya Jana Sangh, the predecessor to the Bharatiya Janata Party, in 1951.
- The Kolkata Port has been renamed Shyama Prasad Mukherjee Port.

**Q:94** Correct answer is **Option 4** i.e. **IIT Tirupati**.

A Tripartite MoU was signed between National Geospatial Programme-DST, NIGST, Survey of India and IIT Tirupati to establish a Center of Excellence to foster Geospatial Innovation and Research. It will cater to emerging technology solution requirements of the Geospatial domain in the country.

**Q:95** The correct answer is **option 2** i.e. **The rotation of the blades of a ceiling fan**.

- **Non-Uniform motion** is defined as the motion of an object in which the object travels with varied speed and it does not cover the same



distance in equal time intervals.

Examples are a car moving on a crowded street, a man running a 500 m race, etc.

- **Uniform motion** is defined as the motion of an object in which the object travels in a straight line and its velocity remains constant along that line as it covers equal distances in equal intervals of time, irrespective of the duration of the time. Examples of Uniform motion are the Movement of the hands of a watch, the Rotation and revolution of the earth, the Movement of the blades of a ceiling fan, etc.

**Q:96** The correct answer is **option 2** i.e. **To measure income inequality**.

- 'The Gini coefficient provides an index to **measure income inequality**'.
- It is a way of comparing how the distribution of income in a society compares with a similar society in which everyone earned exactly the same amount.

**Q:97** The correct answer is **option 4** i.e. **B.R. Ambedkar**

- Mahad Satyagraha is also known as Chavdar Tale Satyagraha. It was founded by **B.R. Ambedkar on 20 March 1927**.
- It aimed to allow untouchables to use water in a public tank in Mahad, Maharashtra.
- This day (20 March) is observed as Social Empowerment Day in India.

**Q:98** The correct answer is **option 1** i.e. **Polonium**.

- **Polonium** is a naturally-occurring element that releases a huge amount of energy, many sources cite polonium as the most radioactive element.
- Polonium has applications in heaters in space probes, and antistatic devices, as sources of neutrons and alpha particles.
- There are 38 radioactive elements on the periodic table. They either have no stable naturally occurring isotope or else are entirely artificial (all artificial elements have no stable isotopes).

**Q:99** The correct answer is **Option 2** i.e. **Sun temple, Konark**.

- The Sun Temple, Konark is a UNESCO world heritage site.
- Sun Temple (Black Pagoda), located in Odisha was declared a UNESCO world heritage site in 1984.
- The temple at Konark is a monumental representation of the sun God Surya's chariot, with twelve pairs of wheels drawn by seven horses evoking its movement across the heavens.

**Q:100** Correct answer is **Option 3** i.e. **Critically Endangered**.

The Saurauia Punduana plant native to Bhutan and Tibet has been found for the first time in Manipur's Tamenglong district. It is categorised as Critically Endangered by the International Union for Conservation of Nature (IUCN) Red List.