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SSC CGL 2nd Dec 2022 Shift-4

General Intelligence and Reasoning

- 1. 'A @ B' means 'A is the husband of B'.
 - 'A & amp; amp; amp; amp; B' means 'A is the father of B'.
 - 'A # B' means 'B is the son of A'.

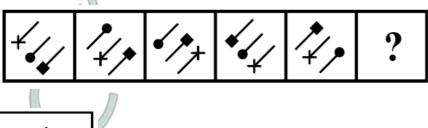
If K # L & Damp; amp; amp; M @ N # P, then how is P related to K?

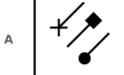
- **A** Father
- B Son's son's son
- C Son's son
- **D** Son

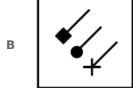
Answer: B

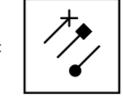


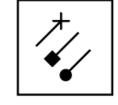
2. Select the figure among the given options that can replace the question mark (?) in the following series.











Answer: C

3. In the following question below are given some statements followed by some conclusions based on those statements. Taking 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 conclusion logically follows the given statements.

Statements:

- I. All A are R.
- II. All R are C.

Conclusions:

- I. All A are C.
- II. Some R are A.
- III. No C is R.
- A Both conclusions II and III follows
- B All conclusion follows
- C Both conclusions I and III follows
- **D** Both conclusions I and II follows

Answer: D

4. Which of the following numbers will replace the question mark (?) in the given series?

29, 33, ?, 113, 369

- **A** 54
- **B** 51
- **C** 49
- **D** 55

Answer: C

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5. By interchanging the given two signs which of the following equation will be not correct? - and \times



B
$$7 \times 8 + 4 \div 2 - 6 = 11$$

C
$$11 + 6 \times 3 - 8 \div 2 = 5$$

D
$$5-6\times 3+16 \div 4=31$$

Answer: A

6. Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All tomatoes are peas.

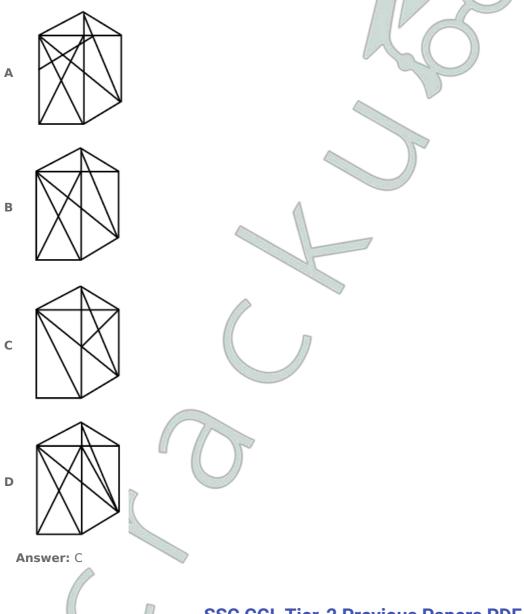
Some peas are potatoes.

All potatoes are fruits.

Conclusions:

- I. Some tomatoes are potatoes.
- II. Some fruits are potatoes.
- III. Some peas are fruits.

A	Only conclusions I and III follow.	
В	Only conclusions I and II follow.	
С	Only conclusions II and III follow.	
D	All conclusions follow.	
1	Answer: C	
	7. Which letter-cluster will replace the question mark (?) to complete the given series? MBTN, KCSP, IDRR, ?, EFPV	
A	GEQS	
В	GEQU	
C	GEQT	
D	GERT	
1	Answer: C	
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	8. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. LMR, PUA, TCJ, XKS, ?	
A	SMR	
В	BSB	
С	CMQ	
D	ARA	
A	Answer: B	
9. Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word) Knife: Cut:: Ladle:?		
A	Slice	
В	Spread	
С	Serve	
D	Chop Answer: C	
1	O. Select option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).	
	(x)	



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- 11. Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word) Hen: Coop
- A Bee : Hive
- B Cow: Hay
- C Horse: Field
- **D** Elephant : Leaves

Answer: A

- 12. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number. 687 : 612 :: 713 : ? :: 621 : 546
- **A** 662
- **B** 638
- **C** 674

Answer: B

- 13. Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
- **A** (405 -400 -395)
- **B** (620 615 -610)
- **C** (700 -690 -685)
- **D** (550 -545 -540)

Answer: C

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- 14. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation. 25 * 5 * 10 * 2 * 13
- $\mathbf{A} \div, +, -,$
- $\mathbf{B} \quad \div, \times, -, =$
- $c \div, -, +, =$
- **D** $\times, +, -, =$

Answer: A

- 15. In a certain code language, 'feel at home' is coded as '424', 'check the laundry' is coded as '537' and 'open the door' is coded as '434'. How will 'the kite is flying' be coded in that language?
- **A** 3426
- **B** 2315
- **C** 4362
- **D** 3251

Answer: A

16. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.

s d w 9 7 3 q a N

s d w 673ba

s d w 973 q a B

s d w 6 L 3 b a

s d w 6 7 3 q \mathbf{e}

Answer: B

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17. By interchanging the given two signs which of the following equation will be not correct? - and \div



B
$$35-5+8 \div 4 \times 3 = 3$$

C
$$20 \times 8 - 4 \div 2 + 7 = 50$$

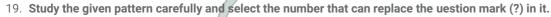
D
$$10 + 8 \times 6 - 4 \div 2 = 20$$

Answer: C



- **A** ISTEU
- **B** ISTUE
- C SITEU
- **D** ISSEU

Answer: C

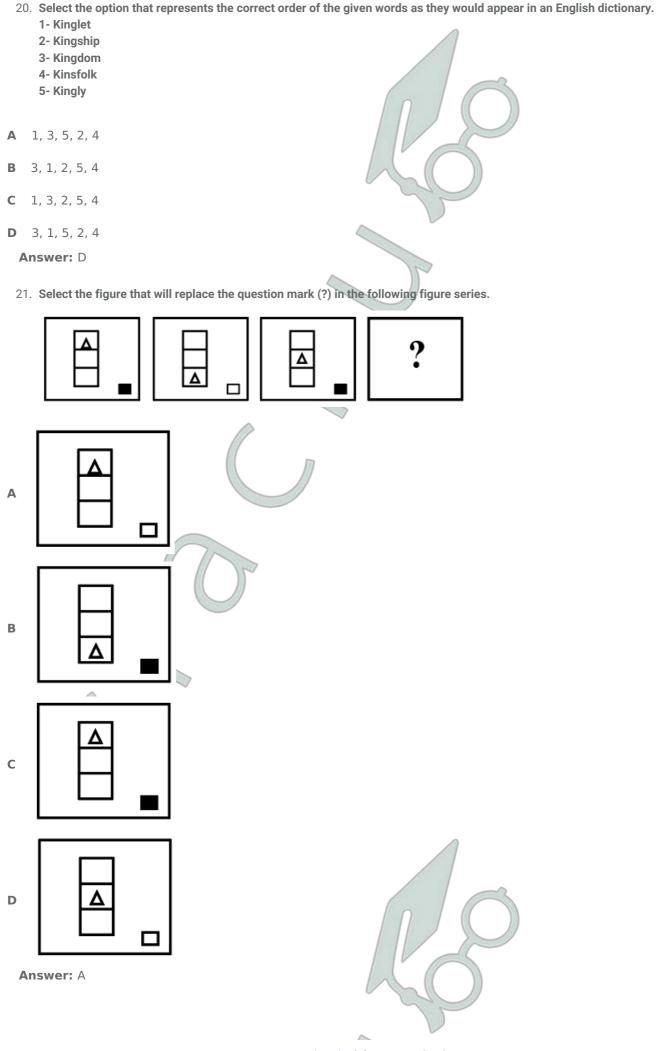


First row: 18, 9, 27 Second row: 40, 36, 140 Third row: 40, 13, ?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers nto its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / ultiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- **A** 53
- **B** 54
- **C** 45
- **D** 25

Answer: D



22. A paper is folded and cut as shown below. How will it appear when unfolded? Answer: A

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23. Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the one that is different.

- **A** MKI
- **B** GED
- C YWU
- D SQO

Answer: B

- 24. If A × B means that A is the father of B, A B means that A is the mother of B, A ÷ B means that A is the brother of B then which of the following expression shows that P is the father of R?
- A $P \times Q + R$
- $\mathbf{B} \quad P \div Q \times R$
- $P \times R \div Q$
- **D** $P \times Q R$

Answer: A

- 25. Select the set in which the numbers are related in the same way as are the numbers of the following set.

 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

 (3, 2, 35) (1, 4, 65)
- **A** (3, 2, 31)
- **B** (7, 2, 351)
- **C** (5, 4, 41)
- **D** (6, 8, 224)

Answer: B

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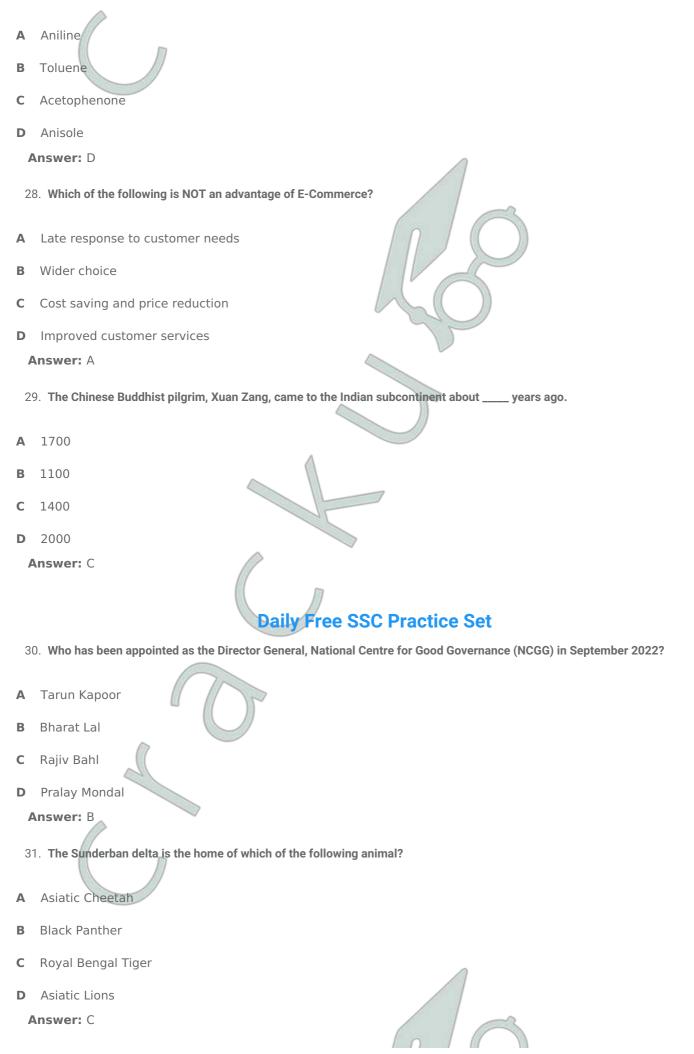
General Awareness

- 26. Roshan Kumari is an exponent of which Indian classical dance form?
- A Kathakali
- **B** Odissi
- C Kathak
- **D** Bharatanatyam

Answer: C

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27. Which of the following is an organic compound with the formula CH30C6H5 used as a perfume, fragrance and solvent?



32. Sultan Mahmud of Ghazni was a contemporary of which Chola king? Rajadhiraja Rajaraja I Rajendra II Rajendra I Answer: D SSC CGL Free Online Coaching 33. Which of the following statements is correct? Water is a biotic resource. Water a non-renewable resource Water is a cyclic resource. Water has only one state. Answer: C 34. Dadabhai Naoroji was a Soldier Doctor **British Officer** Businessman Answer: D 35. Which of the following players is associated with boxing? Lovlina Borgohain Archana Kamat Monica Batra Hima Das Answer: A SSC CHSL Previous Question papers (download pdf) 36. According to census 2011, which is the least populous state in India? Nagaland Sikkim Arunachal Pradesh

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D	Goa
	Answer: B
3	37. Where and when will the fourth edition of the Winter Youth Olympic Games be held?
A	2026, Dakar
В	2023 Buenos Aires
C	2024 Nanjing
D	2024 Gangwon Answer: D
3	38. In August 2022, the "SMILE-75 Initiative" was launched by Ministry of Social Justice & Samp; amp; amp; amp; Empowerment. What is the objective of this scheme?
A	To provide education and training to the weaker sections of the society
В	To accelerate the development of biopharmaceuticals
C	To make our cities/town and municipal areas begging-free.
D	To improve immunisation coverage for children and pregnant women in India
	Answer: C
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3	39. Vetti tax that is mentioned in the inscriptions of the Chola dynasty was taken inform.
A	Cash
В	Land revenue
С	Crops
D	Forced labour Answer: D
4	40. In 2015, the Planning Commission was replaced with the
A	Monetary Policy Committee
В	Competition Commission of India
C	NITI Aayog
D	NaBFID
	Answer: C
4	41. Identify an example of decomposers that are found in the bottom of a pond.
A	Phytoplankton

B Flagellates
C Zooplankton
D Jellyfishes
Answer: B

Latest

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- 42. Who among the following Indian music directors won the Best Original Score at Amsterdam International Film Festival in 2022?
- A Ilaiyaraaja
- **B** A.R.Rahman
- C Santosh Narayanan
- D Harris Jayaraj

Answer: A

- 43. Which of the following is commonly known as Quicklime?
- A $Ca(OH)^2$
- B $CaCL^2$
- C CaO
- D $CaSO^4$

Answer: C

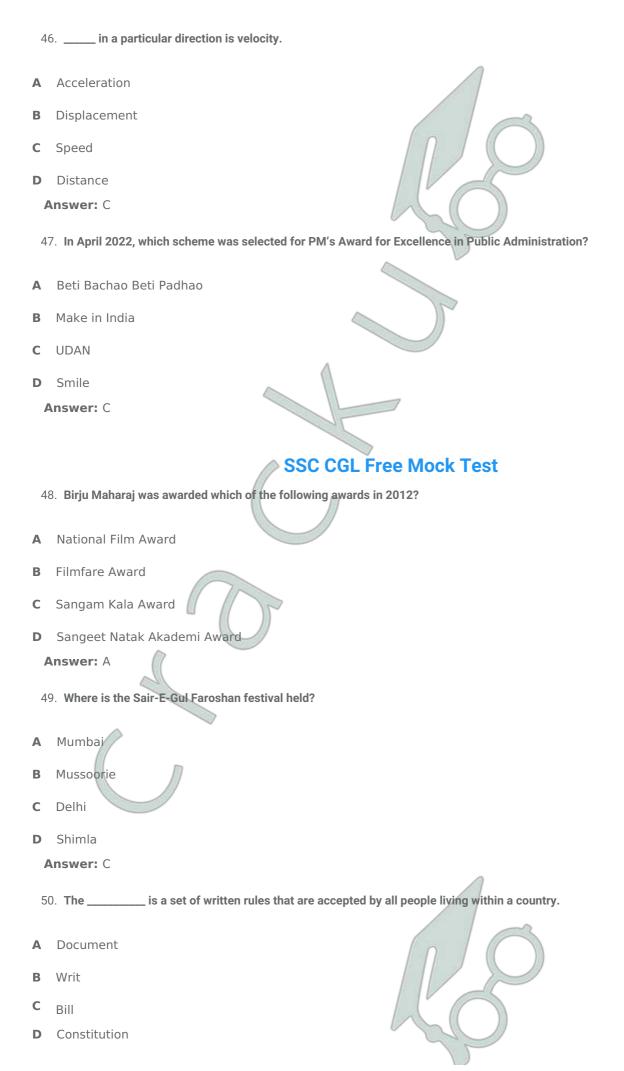
- 44. In which year were the 73^{rd} and 74^{th} amendments passed by the Parliament?
- **A** 1995
- **B** 1992
- **C** 1990
- **D** 1989

Answer: B

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- 45. Which road plan in India was the first attempt for the Road Development Programme between 1943-1963?
- A Poona Road Plan
- **B** Nagpur Road Plan
- C Lucknow Road Plan
- D Bombay Road Plan

Answer: B



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Quantitative Aptitude

- 51. O is the incentre of the triangle PQR. If angle PQR = 140 degree, then what is the angle PQR?
- A 70 degree
- B 100 degree
- C 40 degree
- **D** 140 degree

Answer: D

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52. If $X+\stackrel{1}{x}=8$, then find the value of $\stackrel{5}{x^2-8x+2}$

- Δ
- **B** 4
- **C** 0
- **D** 3

Answer: A

- 53. A shopkeeper gives two successive discounts on a watch marked ₹2,750. The first discount given is 10%. If the customer pays ₹2,103.75 for the watch, then what is the second discount?
- **A** 10%
- **B** 12%
- **C** 30%
- **D** 15%

Answer: D

- 54. By selling a car for Rs.2,78,000, a dealer gains 25%. If the profit is reduced to 18%, then the selling price will be:
- A Rs.2,60,432
- **B** Rs.2,62,432
- C Rs.2,72,432
- **D** Rs.2,65,432

Answer: B

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- 55. On simple interest a sum of ₹640 becomes ₹832 in 2 years. What will ₹860 become in 4 years at the same rate of simple interest?
- **A** ₹1,426
- **B** ₹1,250
- **C** ₹1,150
- **D** ₹1,376

Answer: D

- 56. Which of the following statement is correct?
 - I. The value of is $100^2 99^2 + 98^2 97^2 + 96^2 95^2 + 94^2 93^2 + 2^2 1^2$ 5050.
 - II. If $8x + \frac{8}{x} = -16$ and x < 0, then the value of $x^{197} + x^{-197}$ is 2.
- A Only II
- B Both I and II
- C Neither I nor II
- **D** Only I

Answer: D

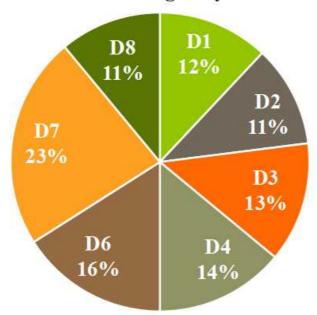
- 57. If the side of an equilateral triangle is 20 cm, then what is its area?
- **A** $110\sqrt{3}cm^2$
- **B** $125\sqrt{3}cm^2$
- **C** $100\sqrt{3}cm^2$
- **D** $200\sqrt{3}cm^2$

Answer: C

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58. The following pie chart shows the spending of a country on tourism in various states during the year 2012. Total spending of the country = ₹49,62,000

Chart showing spending of a country on tourism in various states during the year 2012



The amount spent on state together D1 and D4 exceeds that spent on together D2 and D8 by:

- **A** ₹1,89,760
- **B** ₹1,98,480
- **C** ₹1,78,960
- **D** ₹1,97,890

Answer: B

- 59. If $\sin A = \frac{4}{5}$ and $\sin B = \frac{15}{17}$, what is the value of $\sin(A B)$?
- **A** $-{}^{13}_{85}$
- **B** $-{}^{32}_{45}$
- **C** $^{32}_{45}$
- **D** $^{13}_{85}$

Answer: A

- 60. Ratio between the present ages of A and B is 2:3, respectively. After 5 years, the ratio between their ages will be 3:4. What is B's age at present?
- A 25 years
- **B** 20 years
- C 15 years
- **D** 10 years



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61. Three numbers are in the ratio of 2:3:5 and their LCM is 90. Find their HCF.

A 6

B 9

C 1

D 3

Answer: D

62. We scored the least marks in aggregate of all the subjects?

Name of the student	SUBJECT		
	English	Hindi	Maths
A	54	65	67
В	52	88	78
С	48	48	67
D	41	87	60
E	74	70	55

Δ Δ

B C

C D

D E

Answer: B

63. If $\tan A + \cot A = 2$, then the value of $2(\tan^2 A + \cot^2 A)$ is:

A 2

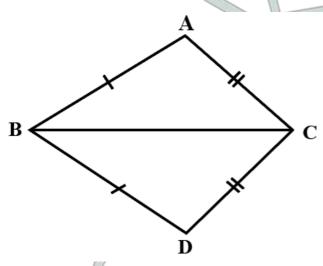
B 1

C 3

D 4

Answer: D

64. In the given figure AB = DB and AC = DC. If $\angle ABD = 58^{\circ}$ and $\angle BDC = (2X-4)^{\circ}, \angle ACB = (x+15)^{\circ}$ and $\angle DCA = 63^{\circ}$.



- **A** 259
- **B** 325
- **C** 268
- **D** 273

Answer: D

65. Study the given table and answer the question that follows.

The table shows the number of customers for different services in different cities.

City → Services ↓	X	Y	Z
A	250	175	350
В	220	190	240
С	260	200	270
D	245	185	330

In which services is the average number of customers per city the highest?

- A D
- **B** A
- **C** C
- **D** B

Answer: B

66. If $K+\stackrel{1}{K}=3$, then what is the value of $\stackrel{1}{K^3}+K^3$

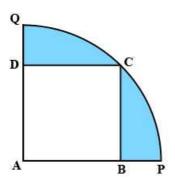


- **B** 10
- **C** 54
- **D** 18

Answer:

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67. In the given figure, a square ABCD is inscribed in a quadrant APCQ. If AB = 16 cm, find the area of the shaded region (take $\pi=3.14$) correct to two place of decimal.





B $163.85cm^2$

C $145.92cm^2$

D $179.68cm^2$

Answer: C





B 80

C 110

D 105

Answer: B

69. Study the table given below and answer the questions that follows.

Countries	Number of Tests	Positive cases	Number of patients for Ventilators
The US	14000	12%	20%
Spain	12000	8%	12.50%
Italy	10000	12%	16%
China	10000	11%	15%

According to the table given above, which country has the maximum number of positive cases?

- A China
- **B** Spain
- C The US
- **D** Italy

Answer: C



- 70. The number of books on Mathematics, Physics and Chemistry in a University library is in the ratio 8 : 5 : 9. There is a proposal to increase these books by 10%, 5% and 5% respectively. What will be the ratio of the number of books after increment?
- A 212:117:47
- **B** 189:115:117
- **C** 37:47:83
- **D** 176:105:189

Answer:

- 71. From the circumcentre L of $\angle XYZ$, perpendicular LM is drawn on side YZ. If $\angle XYZ = 60^{\circ}$, thent the measure of $\angle YLM$ is:
- A 60°
- **B** 120°
- C 180°
- \mathbf{D} 90°

Answer: A

72. Two trains P and Q start from stations S and T towards each other. Train P takes 4 hours 48 minutes and train Q takes 3 hours 20 minutes to reach T and S, respectively, after they meet. If the speed of train P is 45 km/h, what is the speed of train Q?

- **A** 54 km/h
- **B** 55 km/h
- **C** 48 km/h
- **D** 50 km/h

Answer: A

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- 73. The average weight of 49 students in a class is 39 kg. Seven of them whose average weight is 40 kg leave the class and other seven students whose average weight is 54 kg join the class. What is the new average weight (in kg) of the class?
- **A** 39
- **B** 40
- **C** 41
- **D** 42

Answer: C

- 74. Which of the following numbers are divisible by 2, 3 and 5?
- A 2456732
- **B** 5467760
- C 2345760
- **D** 1345678

Answer: C

- 75. If $\frac{1-\cos\theta}{\sin\theta}=\frac{1}{5}$, then what will be the value of $\frac{1+\cos\theta}{\sin\theta}=\frac{1}{5}$?
- **A** 4/5
- **B** 5
- **C** 2/5
- **D** 1/5

Answer: B

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English Comprehension

- 76. Choose the incorrectly spelt word.
- A Dubious
- **B** Nefarious

С	Consumate				
D	Professional				
A	Answer: C				
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7	7. Select the most appropriate synonym of the given word.				
	Remorse				
A	Repentance				
В	Affinity				
С	Slow				
D	Liberate				
A	Answer: A				
7	8. Select the most appropriate ANTONYM of the underlined word in the context of its meaning in the sentence. A few chocolates were <u>left</u> after the Halloween's trick or treat fair.				
A	finished				
В	right				
C D	present				
	Answer: A				
7	9. Select the most appropriate meaning of the given idiom.				
/	To smell a rat				
A	To learn the smell of a rat				
В	To know the smell of a rat				
С	To have reason to know the presence of a rat				
D	To have reason to suspect				
A	Answer: D				
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80. Select the most appropriate word for the underlined word in the given sentence.					
	Rajesh was angry at himself for making a silly mistake during the examination.				
A	with				
B	for above				

Answer: D

8	5. Parts of the following sentence have been given as options. Select the option that contains a grammatical error.				
	There was no denying the fact / that King Lear confided to / his daughter Cordelia / more than anybody else.				
A	his daughter Cordelia				
В	more than anybody else.				
С	that King Lear confided to				
D	There was no denying the fact				
1	Answer: C				
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8	6. Select the most appropriate option to fill in the blank.				
	The patient was from the hospital.				
A	released				
В	liberated				
С	let out				
D	discharged				
1	Answer: D				
8	7. Rearrange the parts of the sentence in correct order. According to the report, P. the 2021 projections reflect growing Q. recognition of climate change issues R. and the importance of nuclear power in S. reducing emissions from electricity generation				
A	PQRS				
В	QRSP				
C	PSQR				
D	QPRS				
1	Answer: A				
Ω	88. Select the option that expresses the given sentence in active voice.				
O	The keys have been forgotten by Jyoti.				
A	Jyoti has forgotten the keys.				
В	Jyoti will have forgotten the keys.				
С	Jyoti has been forgetting the keys.				
D	Jyoti had forgotten the keys.				
	Answer: A				

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8	9. Select the most appropriate ANTONYM of the given word.
	Polite
A	Decent
В	Rude
C	Civil
D	Sober
	Answer: B
9	0. Select the most appropriate ANTONYM of the underlined word.
	The number of tests conducted dropped further on Saturday with a total of 67,624 tests of which 20% were the less precise rapid antigen tests.
A	Rough
В	Complicated
C	Adequate
D	Inevitable
1	Answer: A
9	 The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Many deadwood beetle species recycle the nutrients of woodlands. Q. Some deadwood beetles are predators or parasitoids to other insect species and restrict population growth of potential pests. R. Others have recently been found to be pollinators. S. Working alongside fungi, bacteria and other invertebrates, they break dow dead wood and return the nutrients back to the soil.
A B	PRQS RPSQ
C	PSQR
D	QPRS
	Answer: C
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9	2. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.
	We live in a populated country of 120 million people.
A	populous
В	dense
С	No substitute

D	congested
	Answer: A
9	3. Parts of the following sentence have been given as options. Select the option that contains an error.
	She, often, accuses him for a lack of morality.
A	No error
В	She often
С	a lack of morality
D	accuses him for
	Answer: A
9	4. Select the correct passive form of the given sentence.
	People speak Cantonese in Hong-Kong.
A	Cantonese was spoken in Hong-Kong.
В	Cantonese was spoken in Hong-Kong by people.
С	Cantonese is spoken in Hong-Kong.
D	Cantonese is being spoken in Hong-Kong.
-	Answer: C
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9	5. Select the most appropriate collocating word to fill in the blank.
	After having understood the ill effects, he said he woulddrinking alcohol.
A	close
В	terminate
С	quit
D	finish
	Answer: C
Ins	tructions [96 - 100]
	the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in ch blank.
exi mc	tle (1) a year ago, Rama Rao went out of work when a gramophone company, of which he was the Malgudi agent, went out of stence. He had put into that agency the little money he had (2) as security. For five years his business brought him (3) oney, just enough to help him keep his wife and children in good comfort. And one day, it was (4) A series of (5) in the order of trade, commerce, banking, and politics was responsible for it.
9	6. Select the most appropriate option to fill in blank number 1.
A B	beyond over

while D about Answer: B 97. Select the most appropriate option to fill in blank number 2. exchanged inherited converted gambled Answer: B 25 SSC CHSL Mocks for just Rs. 149 98. Select the most appropriate option to fill in blank number 3. enough much a few few Answer: A 99. Select the most appropriate option to fill in blank number 4. a bone of contention a snake in the grass a wild goose chase a bolt from the blue Answer: D 100. Select the most appropriate option to fill in blank number 5. circumstances lectures questions instructions Answer: A

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