

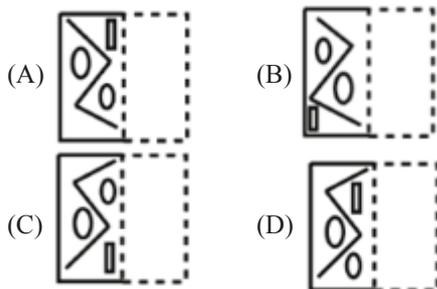
SSC CHSL / GENERAL INTELLIGENCE & REASONING ABILITY

Q.1. A figure of transparent sheet with a pattern is given below. Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.

Question Figure



Answer Figure



Q.2. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

Question Figure:

G J 7 5 3 f g Q

Answer Figure :

- (A) Q g f 3 2 7 L G
- (B) Q g f 3 5 7 f Q
- (C) Q g f 3 2 L G
- (D) Q g f 3 2 7 L G

Q.3. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pairs.

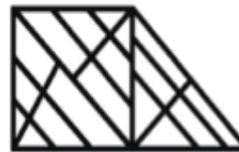
12 : 156

- (A) 6 : 52
- (B) 14 : 210
- (C) 8 : 68
- (D) 16 : 218

Q.4. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- (A) 173
- (B) 193
- (C) 191
- (D) 189

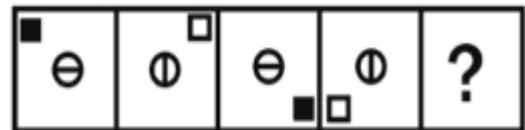
Q.5. How many triangles are present in the given figure?



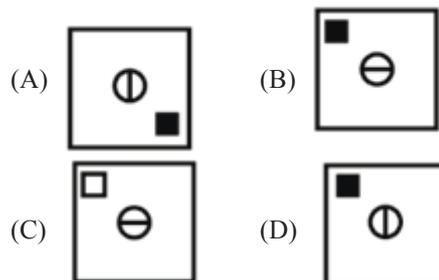
- (A) 30
- (B) 27
- (C) 28
- (D) 29

Q.6. Select the figure that will come next in the following figure series.

Question Figure



Answer Figures:



Q.7. In a code language, CARNIVAL is written as LPYAJYTG. How will DISTANCE be written as in that language?

- (A) RQGBDAMY
- (B) RPGBCZLY
- (C) RQBCALY
- (D) SQHBCALZ

Q.8. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(8, 27, 64)

- (A) (49, 64, 81)
- (B) (216, 343, 529)
- (C) (343, 512, 729)
- (D) (125, 636, 864)

Q.9. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

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KSOE : MQQC :: ACZN : ?

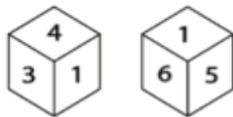
- (A) CABL (B) CABK
(C) DAOL (D) CBBL

Q.10. 'Heart' is related to 'Circulation' in the same way as 'Lungs' are related to '_____'.
(A) Excretion (B) Respiration
(C) Oxygen (D) Ribs

Q.11. Which number will replace the question mark (?) in the following series?
25, 42, 67, 101, 145, ?
(A) 200 (B) 202
(C) 199 (D) 201

Q.12. Three friends A, B and C have different amounts of rupees with them. If B takes ₹7 from A, then B will have an equal amount as C has. B and C together have total ₹157. How many rupees does C have?
(A) 82 (B) 81
(C) 80 (D) 83

Q.13. Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number opposite to the face having 1.



- (A) 2 (B) 4 (C) 3 (D) 5

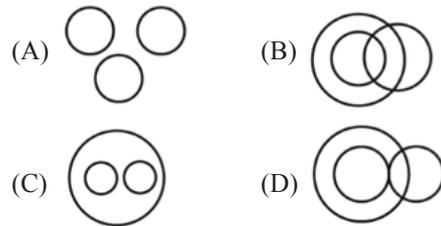
Q.14. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(4, 41, 5)
(A) (7, 81, 9) (B) (6, 85, 8)
(C) (2, 21, 4) (D) (5, 61, 6)

Q.15. If FINANCIAL is coded as 695153913, then how will LUCRATIVE be coded as?
(A) 433922945 (B) 333912955
(C) 343912945 (D) 333912945

Q.16. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pairs.
Exercise : Fitness

- (A) Hobby : Internet
(B) Harmony : War
(C) Treatment : Recovery
(D) Education : Institute

Q.17. Select the Venn diagram that best illustrates the relationship between the following classes. Mobile phones, Electronic devices, Laptops



Q.18. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
(A) DFHJ (B) VXZB
(C) BDGJ (D) JLNP

Q.19. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.
t s m _ _ n q _ _ s m m n _ _ s t _ m m n _ q s

- (A) mnstnqsn (B) mmstmqtn
(C) mnstnqmn (D) nmstnqns

Q.20. Which of the following sequence of signs will correctly solve the given equation by replacing the question marks?
1105 ? 65 ? 835 ? 25 ? 5 = 727

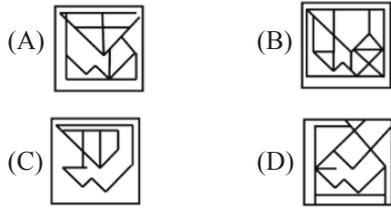
- (A) ÷, +, -, × (B) +, ÷, -, ×
(C) +, -, ×, ÷ (D) ×, -, +, ÷

Q.21. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
(A) Energy (B) Vitamins
(C) Carbohydrates (D) Protein

Q.22. Select the option in which Figure-X is embedded. (Rotation is not allowed)



Figure-X



Q.23. Arrange the following activities in a logical and meaningful order.

1. Marriage hall booking
2. Deciding marriage day
3. Inviting guests
4. Marriage ceremony
5. Invitation cards printing

- (A) 2, 1, 3, 5, 4 (B) 2, 1, 3, 4, 5
 (C) 2, 1, 5, 3, 4 (D) 1, 2, 3, 5, 4

Q.24. A + B means 'A is the mother of B'

A – B means 'A is the husband of B'

A × B means 'A is the son of B'

A ÷ B means 'A is the brother of B'

If $Q \div U \times K \times H - D + J$, then how is K related to J?

- (A) Brother (B) Paternal uncle
 (C) Father (D) Sister

Q.25. Two 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 equipment are screw-drivers. All machines are equipment.

Conclusions:

- I. Some screw-drivers are equipment.
- II. Some screw-drivers are machines.
- III. All equipment are machines.

- (A) Only conclusions I and III follow.
 (B) Only conclusions I and II follow.
 (C) Only conclusions II and III follow.
 (D) All conclusions follow.

SSC CHSL / GENERAL AWARENESS

Q.26. The 'Pattachitra' style of painting is one of the oldest and most popular art forms of _____.

- (A) Rajasthan (B) Odisha
 (C) Assam (D) West Bengal

Q.27. In which city has India's first HIV treatment centre and clinic for the lesbian, gay, bisexual, transgender and queer (LGBTQ) community been inaugurated?

- (A) Bhopal (B) Mumbai
 (C) Bengaluru (D) Kolkata

Q.28. The currency of Japan is _____.

- (A) Renminbi (B) Dollar
 (C) Euro (D) Yen

Q.29. The first session of the first Lok Sabha commenced on _____.

- (A) 13th May 1952
 (B) 15th August 1951
 (C) 15th August 1947
 (D) 26th January 1950

Q.30. Which of the following is the capital of the Union Territory Dadra and Nagar Haveli?

- (A) Port Blair (B) Daman
 (C) Silvassa (D) Kavaratti

Q.31. Which one of the following is the joint Army exercises between France and India?

- (A) Sampriti (B) Garuda Shakti
 (C) Khanjar (D) Shakti

Q.32. With which of the following sports was Narender Hirwani associated?

- (A) Football (B) Cricket
 (C) Hockey (D) Boxing

Q.33. In August 2018, _____ became the first Indian to win the 'Best Actor' award at the Norwegian national awards held in Haugesund, Norway.

- (A) Adil Hussain (B) Nasiruddin Shah
 (C) Irrfan Khan (D) Nawazuddin Siddique

The Centre has approved 445 crore rupees for the implementation of Jal Jeevan Mission in Chhattisgarh during 2020-21.

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- Q.34.** The hill station of Chail is located in _____.
- (A) Uttar Pradesh (B) Arunachal Pradesh
(C) Himachal Pradesh (D) Madhya Pradesh
- Q.35.** The border between India and Bhutan adjoins _____ Indian states.
- (A) Five (B) Two
(C) Three (D) Four
- Q.36.** Rusting of iron is an example of _____.
- (A) evaporation (B) combustion
(C) corrosion (D) condensation
- Q.37.** Which one of the following is an Audio Tool?
- (A) Avidemus (B) Blender
(C) Dscaler (D) Ardour
- Q.38.** With which of the following sports is the term 'Cox' associated?
- (A) Javelin Throw (B) Boat Racing
(C) Boxing (D) Long Jump
- Q.39.** The 'i-help' initiative to promote digital electoral literacy has been launched in which of the following states?
- (A) Arunachal Pradesh (B) Bihar
(C) Chhattisgarh (D) Assam
- Q.40.** _____ was the network that became the basis for the Internet.
- (A) SSID (B) Clusters
(C) ARPANET (D) HTTP
- Q.41.** India won a total of _____ medals at the Special Olympics World Summer Games held in Abu Dhabi from 14 to 21 March 2019.
- (A) 368 (B) 312
(C) 252 (D) 441
- Q.42.** Who among the following wrote the book 'The Namesake'?
- (A) Arundhati Roy
(B) Jhumpa Lahiri
(C) Siddhartha Mukherjee
(D) Amitav Ghosh
- Q.43.** The present day city of Bhopal was built by which of the following Pratihara rulers?
- (A) Mihir Bhoja (B) Vijayasena
(C) Mahendra Bhoja (D) Rajyapala
- Q.44.** _____ gas gives an orange glow when electricity is passed through it. It is generally used in fluorescent lighting.
- (A) Neon (B) Nitrogen
(C) Hydrogen (D) Oxygen
- Q.45.** Who decides the admissibility of Questions in Lok Sabha?
- (A) Deputy Speaker (B) Speaker
(C) Prime Minister (D) Vice President
- Q.46.** _____ are stable, negatively charged particles found in all atoms.
- (A) Protons (B) Electrons
(C) Photons (D) Neutrons
- Q.47.** From which Indian state did 'Warli Art' originate?
- (A) Madhya Pradesh (B) Rajasthan
(C) Maharashtra (D) Kerala
- Q.48.** Which of the following rivers originates in Amarkantak Hill in Madhya Pradesh?
- (A) Narmada (B) Periyar
(C) Ravi (D) Gomti
- Q.49.** _____ is the final value of all the finished goods and services produced within a country's borders in a specific time period.
- (A) Government revenue
(B) Gross Domestic Product
(C) Gross National Product
(D) Net National Product
- Q.50.** The Vikramashila University was founded by _____.
- (A) Dharmapala
(B) Bimbisara
(C) Ashoka
(D) Chandragupta-I

SSC CHSL / NUMERICAL ABILITY

Q.51. A dealer buys an article marked at ₹20000 with two successive discounts of 20% and 5%. He spends ₹1000 for its repair and sells it for ₹20000. What is his profit/loss percent (correct to two decimal places)?

- (A) 25.64% loss (B) 25.64% profit
(C) 23.46% profit (D) 23.64% loss

Q.52. A and B can complete a piece of work in 15 days and 10 days respectively. They got a contract to complete the work for ₹35000. The share of A (in ₹) in the contracted money will be:

- (A) 7000 (B) 10000
(C) 14000 (D) 15000

Q.53. The sum of salaries of A and B is ₹43000. A spends 95% of his salary and B spends 80% of his salary. If their savings are the same, what is A's salary (in ₹)?

- (A) 8000 (B) 34400
(C) 10600 (D) 35000

Q.54. The chord of the contact of tangents drawn from point on the circle $x^2 + y^2 = a^2$ to the circle $x^2 + y^2 = b^2$ touches the circle $x^2 + y^2 = c^2$ such that $b^p = a^m c^n$ where $m, n, p \in \mathbb{N}$, and m, n, p are prime to each other, then the value of $2m + n + 2p - 3$ is:

- (A) 5 (B) 4
(C) 6 (D) 2

Q.55. If $2(\operatorname{cosec}^2 39^\circ - \tan^2 51^\circ) - \frac{2}{3} \sin 90^\circ - \tan^2 56^\circ y + \tan^2 34^\circ = \frac{y}{3}$, then the value of y is:

- (A) $-\frac{2}{3}$ (B) -1
(C) 1 (D) $\frac{2}{3}$

Q.56. In triangle ABC, the length of BC is less than twice the length of AB by 3 cm. The length of the AC exceeds the length of AB by 3 cm. The perimeter of the triangle is 34 cm. The length (in cm) of the smaller side of the triangle is:

- (A) 10 (B) 7
(C) 9 (D) 8

Q.57. Two students, A and B, appeared for an examination. A secured 8 marks more than B and the marks of the latter was 55% of the sum of their marks. The sum of the marks obtained by A and B is:

- (A) 75 (B) 100
(C) 90 (D) 80

Q.58. The simplified value of

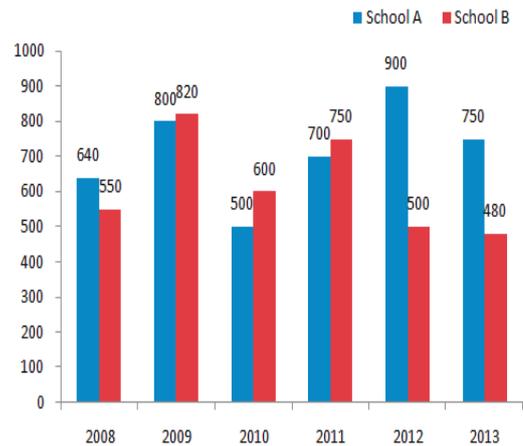
$$\left(3\frac{1}{5} + \frac{3}{5}\right) \div \frac{1\frac{3}{5}}{1\frac{1}{7}} \div \left\{\frac{5}{7} + \left(\frac{1}{7} \div \frac{1}{3}\right)\right\}$$

- (A) $\frac{19}{7}$ (B) $\frac{19}{16}$
(C) $\frac{19}{8}$ (D) $\frac{19}{64}$

Q.59. The ratio between the speeds of two trains is 2: 5. If the first train covers 350 km in 5 hours, then the speed (in km/h) of the second train is:

- (A) 180 (B) 175
(C) 165 (D) 150

Q.60-64. The given Bar Graph presents the number of students of two schools for six years.



Q.60. In which year, the absolute difference between the numbers of students in two schools is the highest?

- (A) 2012 (B) 2011
(C) 2013 (D) 2010

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- Q.61.** What is the average number of students from school B during the six year period (correct to two decimal places)?
 (A) 656.17 (B) 664.37
 (C) 616.67 (D) 660.17
- Q.62.** In which year, the percentage increase in students in school B is the highest in comparison to its previous year?
 (A) 2010 (B) 2013
 (C) 2009 (D) 2011
- Q.63.** What is the ratio of students taken for all years together from School B to that from school A?
 (A) 370: 429 (B) 415: 401
 (C) 401: 415 (D) 429: 370
- Q.64.** $3^{\sqrt{x}} + 4^{\sqrt{x}} = 5^{\sqrt{x}}$, then the value of x is
 (A) 2 (B) 4
 (C) 16 (D) 8
- Q.65.** If $(x - 8)^3 + (2x + 16)^3 + (2x - 13)^3 = 3(x - 8)(2x + 16)(2x - 13)$, then what is the value of x?
 (A) 1 (B) -1
 (C) 0 (D) 0.7
- Q.66.** If an 8-digit number $30x558y2$ is divisible by 88, then the value of $(6x + 6y)$ is:
 (A) 30 (B) 35
 (C) 42 (D) 66
- Q.67.** If each side of a rectangle is increased by 22%, then its area will increase by:
 (A) 48.84% (B) 50%
 (C) 44% (D) 46.65%
- Q.68.** A person purchased a vehicle for ₹489828 and sold it for ₹589828. What is the profit percent he earned on this vehicle (correct to two decimal places)?
 (A) 25% (B) 15%
 (C) 18.65% (D) 20.42%
- Q.69.** If $\operatorname{cosec} \theta = 3x$ and $\cot \theta = \frac{3}{x}$, ($x \neq 0$) then the value of $6\left(x^2 - \frac{1}{x^2}\right)$ is
 (A) $\frac{1}{4}$ (B) 1
 (C) $\frac{2}{3}$ (D) $\frac{1}{2}$
- Q.70.** If $\cos x = -\frac{1}{2}$ and $\pi < x < \frac{3\pi}{2}$, then the value of $2 \tan^2 x - 3 \operatorname{cosec}^2 x$ is:
 (A) 10 (B) 8
 (C) 2 (D) 4
- Q.71.** Two numbers are in the ratio 3: 4. On increasing each of them by 30, the ratio becomes 9: 10. The sum of the numbers is:
 (A) 35 (B) 30
 (C) 32 (D) 25
- Q.72.** In a ΔABC , the bisectors of $\angle B$ and $\angle C$ meet at O with in the triangle. If $\angle A = 110^\circ$, then the measure of $\angle BOC$ is
 (A) 110° (B) 55°
 (C) 145° (D) 84°
- Q.73.** If $x = 2 + \sqrt{3}$ then the value of $x^3 + x^{-3}$ is:
 (A) $-52\sqrt{3}$ (B) $52\sqrt{3}$
 (C) -52 (D) 52
- Q.74.** There are two circles of radius 5 cm and 3 cm respectively. The distance between their centres is 10 cm. The length (in cm) of a transverse common tangent is:
 (A) 9 (B) 8
 (C) 10 (D) 6
- Q.75.** The average age of fifteen persons is 32 years. If two more persons are added, then the average is increased by 3 years. The new persons have age difference of 7 years. The age (in years) of the younger among the new persons is:
 (A) 50 (B) 58
 (C) 54 (D) 61

SSC CHSL / ENGLISH LANGUAGE

Q.76. Select the most appropriate passive form of the given sentence.

The surgeon successfully operated upon the patient.

- (A) The patient was successfully operated upon by the surgeon.
 (B) The surgeon has been successfully operated upon by the patient.
 (C) The patient is successfully operated upon by the surgeon.
 (D) The patient is being successfully operated upon by the surgeon.

Q.77. Select the correctly spelt word.

- (A) opportunity (B) oppurtunity
 (C) oppertunity (D) oportunity

Q.78. Select the most appropriate synonym of the given word.

RESOLUTE

- (A) determined (B) uncertain
 (C) hesitant (D) unsure

Q.79. Identify the segment which contains the grammatical error.

Lack of formal education did not prevent Lincoln to become a great leader.

- (A) to become (B) did not prevent
 (C) a great leader (D) Lack of

Q.80. Select the most appropriate antonym of the given word.

ASCENT

- (A) descent (B) nascent
 (C) crescent (D) recent

Q.81. Select the wrongly spelt word.

- (A) extract (B) extension
 (C) explanation (D) eligible

Q.82. Select the most appropriate word for the group of words.

An official pardon

- (A) regicide (B) amnesia
 (C) redemption (D) amnesty

Q.83-87. 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 blank.

As the rains receded I got a strange job. Our neighbour, a (A) _____ merchant decided to become a politician. But he was (B) _____ so he wanted me to (C) _____ him everywhere he went and read and write (D) _____ him. For my work I was to be paid decent (E) _____.

Q.83. Select the most appropriate option to fill in blank (A)

- (A) prosperous (B) affluent
 (C) populous (D) ambitious

Q.84. Select the most appropriate option to fill in blank (B)

- (A) illegible (B) illogical
 (C) illegitimate (D) illiterate

Q.85. Select the most appropriate option to fill in blank (C)

- (A) coincide (B) coexist
 (C) accompany (D) attend

Q.86. Select the most appropriate option to fill in blank (D)

- (A) from (B) for
 (C) through (D) on

Q.87. Select the most appropriate option to fill in blank (E)

- (A) wages (B) bonus
 (C) prize (D) reward

Q.88. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Little did she know that I was out of job once again.
 B. But all the money soon vanished into the bottomless pit of household needs.
 C. I returned home with my pockets full of my earnings.
 D. However, my grandmother was happy that I had become responsible.

- (A) CDAB (B) BCDA
 (C) DBAC (D) CBDA

The world's largest electric plane 'eCaravan' took its first successful flight, that lasted for about 30 minutes.

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Q.89. Fill in the blank with the most appropriate word.

I had _____ pain in the stomach after taking lunch.

- (A) heavy (B) huge
(C) acute (D) strict

Q.90. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. But when their short racing careers are over, greyhounds are adopted as household pets.
B. Greyhound racing is a popular spectator sport in the United States.
C. They worry that the greyhounds would need a large space to run to get sufficient exercise.
D. Unfortunately, many people hesitate to adopt a retired racing greyhound as a pet.

- (A) DBCA (B) BDAC
(C) DACB (D) BADC

Q.91. Identify the segment which contains the grammatical error.

Pleasure cannot derive from giving pain to innocent people.

- (A) from giving (B) Pleasure cannot derive
(C) pain to (D) innocent people

Q.92. Select the most appropriate word for the group of words.

One who walks on foot

- (A) pediatrician (B) pauper
(C) protagonist (D) pedestrian

Q.93. Fill in the blank with the most appropriate word.

All organizations seek sincere and _____ employees.

- (A) industrious (B) inert
(C) inactive (D) industrial

Q.94. Select the most appropriate meaning of the given idiom.

Pass the hat

- (A) to collect money (B) to avoid work
(C) to play a game (D) to sell something

Q.95. Identify the most appropriate option to substitute the underlined segment. If no

substitution is required, select No substitution.

No sooner was his name called out when he was gone onto the stage to receive the award.

- (A) than he went (B) and he was going
(C) but he went (D) No substitution

Q.96. Select the most appropriate indirect form of the given sentence.

Father said to his daughter, "I will attend your convocation tomorrow."

- (A) Father told his daughter that he will be attending her convocation the next day.
(B) Father told his daughter that he would attend her convocation the next day.
(C) Father told his daughter I will attend her convocation tomorrow.
(D) Father told his daughter that he will attend her convocation tomorrow.

Q.97. Select the most appropriate synonym of the given word.

INTREPID

- (A) invisible (B) cowardly
(C) gallant (D) insecure

Q.98. Select the most appropriate antonym of the given word.

FLEXIBLE

- (A) variable (B) pliant
(C) stiff (D) elastic

Q.99. Identify the most appropriate option to substitute the underlined segment.

If no substitution is required, select No substitution.

I was astonished on the ignorance in the villagers.

- (A) at the ignorance of
(B) on the ignorance by
(C) over the ignorance between
(D) No substitution

Q.100. Select the most appropriate meaning of the given idiom.

As the crow flies

- (A) a long winding path (B) to be directionless
(C) to be uncertain (D) the shortest route

EXPLANATION/REASONING ABILITY

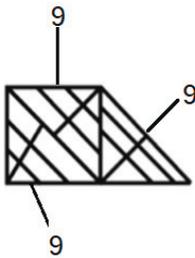
Q.1.(C)

Q.2.(A)

Q.3.(B) $12 \times 13 = 156$
 $14 \times 15 = 210$

Q.4.(A) $13^2 + 4 = 169 + 4 = 173$
 $14^2 - 3 = 196 - 3 = 193$
 $14^2 - 5 = 196 - 5 = 191$
 $14^2 - 7 = 196 - 7 = 189$

Q.5.(B)



Q.6.(B)

Q.7.(C)

-2 -2 -2 -2 | -2 -2 -2 -2
 C A R N | I V A L
 L P Y A | J Y T G

-2 -2 -2 -2 | -2 -2 -2 -2
 D I S T | A N C E
 R Q G B | C A L Y

Q.8.(C) $(8, 27, 64) = 2^3, 3^3, 4^3$

$(343, 512, 729) = 7^3, 8^3, 9^3$

Q.9.(A) $KSOE = +2, -2, +2, -2 = MQQC$

$ACZN = +2, -2, +2, -2 = CABL$

Q.10.(B) Heart is related to Circulation. Similarly, Lungs is related to Respiration.

Q.11.(A) 25, 42, 67, 101, 145, 200
 +17 +25 +34 +44 +55
 +8 +9 +10 +11

Q.12.(A) $B + 7 = C$

$B - C = -7 \dots (I)$

$B + C = 157 \dots (II)$

By solving,

We get-

$C = 82, B = 75$

Q.13.(A) 1 3 4

1 5 6

Q.14.(D) $(4, 41, 5) = 4^2 + 5^2 = 16 + 25 = 41$

$(5, 61, 6) = 5^2 + 6^2 = 25 + 36 = 61$

Q.15.(J) FINANCIAL = 6 9 14 1 14 3 9 1 12 = 695153913

Q.16.(C) Exercise is related to Fitness. Similarly, Treatment is related to Recovery.

Q.17.(C)

Q.18.(C) D (E) F (G) H (I) J

V (W) X (Y) Z (A) B

J (K) L (M) N (O) P

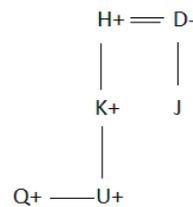
Q.19.(A) t s m m / n n q s / t s m m / n n q s / t s m m / n n q s

Q.20.(A) $1105 \div 65 + 835 - 25 \times 5 = 727$
 $17 + 835 - 125 = 727$
 $727 = 727$

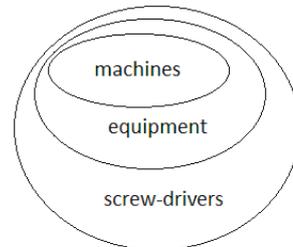
Q.21.(A) We get energy from all three.

Q.22.(B) Q.23.(C)

Q.24.(A)



Q.25.(B)



Treble Olympic gold medalist Bobby Joe Morrow -- who won 100m, 200m and 4x100m relay gold at the 1956 Melbourne Games, has died at the age of 84.

EXPLANATION/GENERAL AWARENESS

- Q.26.(B)** The 'Pattachitra' style of painting is one of the oldest and most popular art forms of Odisha. The name Pattachitra has evolved from the Sanskrit words patta, meaning canvas, and chitra, meaning picture.
- Q.27.(B)** India's first Human Immunodeficiency Virus (HIV) treatment centre and clinic for the lesbian, gay, bisexual, transgender and queer (LGBTQ) community was inaugurated by the Humsafar Trust in Mumbai.
- Q.28.(D)** The Japanese Yen is the official currency of Japan. It is the third most traded currency in the foreign exchange market after the United States Dollar and the Euro.
- Q.29.(A)** First Session of this Lok Sabha commenced on 13 May 1952.
- Q.30.(C)** Silvassa was the capital of Dadra and Nagar Haveli.
The Union Territories of Daman and Diu, Dadra and Nagar Haveli became a single union territory on January 26, the Home Ministry announced on 19 December 2020.
The Dadra and Nagar Haveli and Daman and Diu (Merger of Union Territories) Bill, 2019 was passed by both Lok Sabha and Rajya Sabha in the just concluded winter session of Parliament. Now the capital of the Dadra and Nagar Haveli and Daman and Diu is Daman.
- Q.31.(D)** Shakti is the joint Army exercises between France and India.
- Q.32.(B)** Narendra Deepchand Hirwani (born 18 October 1968) is a leg spin bowler who played for India.
- Q.33.(A)** In August 2018, Adil Hussain became the first Indian to win the 'Best Actor' award at the Norwegian national awards held in Haugesund, Norway.
- Q.34.(C)** The hill station of Chail is located in Himachal Pradesh.
- Q.35.(D)** The Bhutan–India border is the international border separating Bhutan and India. The border is 699 km long, and adjoins the Indian states of Assam (267 km), Arunachal Pradesh (217 km), West Bengal (183 km), and Sikkim (32 km).
- Q.36.(C)** Rusting of iron is an example of corrosion.
- Q.37.(D)** Ardour is a hard disk recorder and digital audio workstation application that runs on Linux.
- Q.38.(B)** The term 'Cox' associated Boat Racing.
- Q.39.(D)** The 'i-help' initiative to promote digital electoral literacy in Assam has been launched.
- Q.40.(C)** ARPANET was the network that became the basis for the Internet.
- Q.41.(A)** India returned with 368 medals, including 85 gold, at the Special Olympics World Summer Games which was held at Abu Dhabi, UAE from March 14 to 21 2019.
- Q.42.(B)** The Namesake (2003) is the first novel by American author Jhumpa Lahiri.
- Q.43.(A)** The greatest ruler of the Pratihara dynasty was Mihir Bhoja. He recovered Kanauj (Kanyakubja) by 836, and it remained the capital of the Pratiharas for almost a century. He built the city Bhojpal (Bhopal).
- Q.44.(A)** Neon gas gives an orange glow when electricity is passed through it. It is generally used in fluorescent lighting.
- Q.45.(B)** Speaker decides the admissibility of Questions in Lok Sabha
- Q.46.(B)** Electrons are stable, negatively charged particles found in all atoms.
- Q.47.(C)** Warli painting is a style of tribal art mostly created by the tribal people from the North Sahyadri Range in India. This range encompasses cities such as Dahanu, Talasari, Jawhar, Palghar, Mokhada, and Vikramgad of Palghar district. This tribal art was originated in Maharashtra, where it is still practiced today.
- Q.48.(A)** River Narmada emerges from Amarkantak Hill of Maikal Range. Son river is largest of southern tributaries of Ganga that originates near Amarkantak in Madhya Pradesh near the source of Narmada River.
- Q.49.(B)** Gross Domestic Product is the final value of all the finished goods and services produced within a country's borders in a specific time period.
- Q.50.(A)** Vikramashila was founded by Pāla king Dharmapala in the late 8th or early 9th century. It prospered for about four centuries before it was destroyed by Bakhtiyar Khilji along with the other major centres of Buddhism in India around 1193.

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Q.68.(D) % Profit = $\frac{589828 - 489828}{489828} \times 100$

= 20.42%

Q.69.(C)

$$9x^2 - \frac{9}{x^2} = (\operatorname{cosec}^2 \theta - \cot^2 \theta)$$

$$9 \left(x^2 - \frac{1}{x^2} \right) = 9$$

$$6 \left(x^2 - \frac{1}{x^2} \right) = \frac{6}{9} = \frac{2}{3}$$

Q.70.(C) $\cos x = -\frac{1}{2}$

$x = 240^\circ$

$$2 \tan^2 x - 3 \operatorname{cosec}^2 x = 2 \times \tan^2 (240^\circ) - 3 \operatorname{cosec}^2 (240^\circ)$$

$$= 2 \times 3 - 3 \times (4/3)$$

Q.71.(A) $(3x + 30) : (4x + 30) = 9 : 10$

$$30x + 300 = 36x + 270$$

$$6x = 30$$

$$x = 5$$

$$\text{Sum of the numbers} = 7 \times 5 = 35$$

Q.72.(C) $\angle BOC = 90^\circ + \frac{110^\circ}{2} = 145^\circ$

Q.73.(D)

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

$$\frac{1}{x} = \frac{1}{2 + \sqrt{3}} = 2 - \sqrt{3}$$

$$x + \frac{1}{x} = 2 + \sqrt{3} + 2 - \sqrt{3} = 4$$

$$x \cdot \frac{1}{x} = (2 + \sqrt{3})(2 - \sqrt{3}) = 1$$

$$\left(x + \frac{1}{x} \right)^3 = x^3 + \frac{1}{x^3} + 3x \times \frac{1}{x} \left(x + \frac{1}{x} \right)$$

$$64 = x^3 + \frac{1}{x^3} + 3 \times 1 \times 4$$

$$x^3 + x^{-3} = 52$$

Q.74.(D) Required length = $\sqrt{10^2 - (5+3)^2}$
= 6 cm

Q.75.(C) $17 \times 35 - 15 \times 32 = x + x + 7$

$$595 - 480 = 2x + 7$$

$$115 - 7 = 2x$$

$$x = 54$$

EXPLANATION/ENGLISH LANGUAGE

Q.76.(A) The patient was successfully operated upon by the surgeon.

Kindly, refer to the rules of Voice.

Q.77.(A) The correct word is 'opportunity'.

Q.78.(A) **Resolute** (adj.): decided, firm, fixed.

For other options:

Hesitant (N): unsure, or slow in acting or speaking.

Q.79.(A) 'Prevent' takes the preposition 'from' with it, so 'from becoming' should be there.

Q.80.(A) Ascent (n): an upward slope or path that one may walk or climb.

For other options:

Nascent (adj.): developing

Crescent (adj.): growing, increasing, or developing.

Q.81.(C) The correct word is 'explanation'.

Q.82.(D) For other options:

Regicide (n): the action of killing a king.

Amnesia (n): a partial or total loss of memory.

Redemption (n): the action of regaining or gaining possession of something in exchange for payment, or clearing a debt.

Q.83.(A) Prosperous (adj.): successful in material terms.

For other options:

Affluent and ambitious can't be taken as right answer as 'an' is given before the blank.

Populous (adj.): having a large population

Q.84.(D) Further 'read and write' is mentioned and for that purpose the politician wanted help, it means he was 'illiterate'.

For other options;

Illegible (adj.): not clear enough to be read.

Illegitimate (adj.): not authorized by the law.

Q.85.(C) Accompany (v): Guide (as per the context)

For other options:

Coincide (v): occur at the same time.

Q.86.(B)

Q.87.(A) Among the given options, 'paid' is appropriate to 'wages' only.

Q.88.(D) The correct rearrangement is CBDA.

Q.89.(C) Acute (adj.): severe.

Q.90.(D) The correct rearrangement is BADC.

Q.91.(B) It is a general statement so it should be 'Pleasure is not derived'

Q.92.(D) For other options:

Pediatrician (n): a medical practitioner specializing in children and their diseases.

Pauper (n): a very poor person.

Protagonist (n): the leading character or one of the major characters in a play, film, novel, etc.

Q.93.(A) Industrious (adj.): hard working.

For other options:

Inert (adj.): lacking the ability or strength to move.

Industrial (adj.): related to industry.

Q.94.(A)

Q.95.(A) 'No sooner..... Than.....' is the correct structure.

Q.96.(B) Father told his daughter that he would attend her convocation the next day.

Kindly, refer to the rules of narration.

Q.97.(C) Intrepid (adj.): fearless; adventurous, gallant.

Q.98.(C) Stiff (adj.): firm, rigid, hard to move.

For other options:

Pliant (adj.): easily bent.

Q.99.(A) 'Astonished' is followed by 'at' in case of something.

Q.100.(D)