Q1. Four latter-cluster have been given out of which three are alike in same manner while one is different choose the odd one
(a) BDYW
(b) CDXW
(c) EFVU
(d) DFWV

Q2. Select the word from given options that is similar to the given words and Hence belong to the same group.
Croak: Cackle :: Quack :?
(a) Sound
(b) Squeak
(c) Speak
(d) Gallup

Q3. Select the option in which the words share the same relationship as that shared. By the given pair of words
Sun Temple : Odisha
(a) Mahabodhi Temple : Gujarat.
(b) Ajanta Caves : Tamilnadu
(c) Elora Caves : Maharashtra.
(d) Elephanta Caves : Madhya Pradesh.

Q4. Select the option that is related to the third term in the same ways as the Second term is related to the first term?
\[
\frac{7}{50} : \frac{9}{80} :: \frac{11}{122} : ?
\]
(a) 15/225
(b) 168
(c) 13/168
(d) 15/226
Q5. Select the option that is related to the fifth number in the same way as the second number is related to the first number and fourth number is related to third number?
(a) 254
(b) 255
(c) 256
(d) 257

Q6. Select the letter that can replace the question mark in the following series.
E, Y, V, P, M, ?, D
(a) E
(b) F
(c) H
(d) G

Q7. Study the given pattern carefully and select the number that can replace the question mark (?) in

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(a) 8
(b) 5
(c) 3
(d) 2

Q8. Select the option in which the numbers share the same relationship as that shared by the given pairs of numbers.
80 : 110
(a) 35 : 55
(b) 48 : 78
(c) 24 : 50
(d) 17 : 35

Q9. In a Code language CUPE is coded as 952562 then TAPE is coded as?
(a) 20122556
(b) 4001265
(c) 40012565
(d) 40012562
Q10. A cube is made by folding the given sheet. In the cube so formed, what would be the symbol on the opposite of ☆?

(a) □
(b) △
(c) ☆
(d) ★

Q11. Select the number that can replace the question mark in the following series.
1, 2, 6, 24, 120, ?
(a) 600
(b) 840
(c) 720
(d) 180

Q12. In the following equation, two sign and two numbers need to be interchanged to make it correct select the appropriate sign and numbers from the given alternatives
6 × 4 + 2 – 2 + 1 = 14.
(a) + and ×, 2 and 4
(b) × and +, 2 and 6
(c) × and -, 6 and 2
(d) + and ×, 6 and 4
Q13. Select the venn diagram that best represents the relationship between the following classes. Fiber, Cotton, Jute
(a)  
(b)  
(c)  
(d)  

Q14. Select the option that is correct for the bracketed number with respect to their Conclusion in the given series
3, 10, 29, (66), 127, 218, (343), 514
(a) Both the bracketed numbers are correct
(b) The first bracketed number is correct and second bracketed number is incorrect
(c) Both the bracketed numbers are incorrect.
(d) First bracketed number is incorrect and second bracketed number is correct.

Q15. Three statements are given followed by four Conclusion I, II, III, IV, you have to consider these statements to be true, even if they seem at variance, from Commonly known facts. Decide which of the given Conclusion logically follows from the given statement.
Statement:
I. All Rabbits are Crows.
II. All Crows are thrusts.
III. All thrusts are swan.
Conclusions:
I. All Rabbits are swans
II. All swans are crows.
III. All thrusts are Rabbits.
IV. All crows are swans.
(a) All Conclusions follow.
(b) Only Conclusions I and IV follow
(c) Only Conclusions II and III follow
(d) Only Conclusions I and II follow.
Q16. In a code language, RAJASTHAN is coded as NXHZSPEYM. How will TAMILNADU be written as in that language.
(a) JXBVLJKXP
(b) PXKJMJXBU
(c) PXKHLJXBT
(d) JXBLLJXKP

Q17. Select the Combination of letters that when sequentially placed in the gaps of the given
a_ c d _ e d _ b _ ab_ d_e
(a) a b e c a
(b) b e c a e
(c) c e b a e
(d) a e c e b a

Q18. Select the set in which the numbers are related in the same way as are the numbers of the followings set.
(8, 72, 27)
(a) (1, 15, 16)
(b) (16, 80, 15)
(c) (27, 45, 25)
(d) (64, 82, 27)

Q19. Which one of the given options would be a logical sequence of the following words?
1. JODHPUR
2. WEST RAJASTHAN
3. RAJASTHAN
4. ASIA
5. INDIA
(a) 5 4 3 2 1
(b) 4 1 4 5 3
(c) 5 4 2 1 3
(d) 4 5 3 2 1

Q20. The following Venn diagram gives data regarding the sports team of ABC school. The ‘circle’ represents ‘Junior (Under 14 yrs.)’; the ‘Triangle’ represents ‘Swimmers’, the ‘Rectangle’ represents ‘Cyclists and the ‘Square’ represents ‘Athletes’. The numbers given in the diagram represents number of persons of that particular category. How many Cyclists are both good Athletes and Swimmers?

(a) 9
(b) 10
(c) 5
(d) 8
Q21. Select the Answer Fig. that will come next in the following problem Fig. series.

\[
\begin{array}{ccc}
* & @ & \triangle \\
# & @ & \ast \\
\$ & @ & \# \\
+ & \triangle & \$ \\
\end{array}
\]

(a) $\triangle @+$

(b) $\Box @\$$

(c) $\odot @\triangle$

(d) $\odot \$ @ \triangle$

Q22. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

(a) [Image]

(b) [Image]

(c) [Image]

(d) [Image]
Q23. Select the option in which the given figure (X) is embedded.

(a)

(b)

(c)

(d)

Q24. Find the total number of triangles in the given figure below-

(a) 24
(b) 25
(c) 26
(d) 27
Q25. The sequence of folding a piece of paper and the manner in which the folded paper has cut is shown in the following figures. How would this paper look when unfolded?

(a)
(b)
(c)
(d)

Q26. In the human body, the appendix is attached to :-
(a) the large intestine
(b) the small intestine
(c) the gall bladder
(d) the stomach

Q27. Which one of the following does not have sex chromosome?
(a) Monkey
(b) Tiger
(c) Butterfly
(d) Lizard

Q28. The Gupta gold coins were known as :-
(a) Dramma
(b) Karsapana
(c) Dinar
(d) Niska
Q29. The temple of Angkorwat in Cambodia was dedicated to :-
(a) Buddha  
(b) Tara  
(c) Shiva  
(d) Vishnu

Q30. India has borrowed the concept of Fundamental Rights from the Constitution of :-
(a) UK  
(b) USA  
(c) Russia  
(d) Ireland

Q31. Which part of Rig-Veda gives an account of the origin of the Universe?
(a) Second Mandala  
(b) Fourth Mandala  
(c) Ninth Mandala  
(d) Tenth Mandala

Q32. In how many articles of Indian Constitution, Directive principles of the state policy are mentioned?
(a) From Article 36-51  
(b) From Article 36-52  
(c) From Article 36-53  
(d) From Article 36-54

Q33. In which one of the following antibody formations takes place?
(a) RBCs  
(b) Blood Platelets  
(c) Blood Plasma cells  
(d) Donnan’s membrane

Q34. Who has become the first Indian cricketer to bowl three maidens in single T20?
(a) Jaspreet Bumrah  
(b) Deepti Sharma  
(c) Bhuvneshwar Kumar  
(d) Jhoolan Goswami

Q35. The transitional zone between two distinct communities is known as
(a) Ecotype  
(b) Ecade  
(c) Ecosphere  
(d) Ecotone
Q36. The maximum biodiversity is found in :-
(a) tropical rain forests
(b) temperate forests
(c) coniferous forests
(d) arctic forests

Q37. The neighbouring country of India which has the largest area is
(a) Bangladesh
(b) China
(c) Pakistan
(d) Nepal

Q38. The term ‘Regur’ is used for
(a) Alluvial soil
(b) Black soil
(c) Laterite soil
(d) Yellow soil

Q39. Oxbow Lake is a feature formed by
(a) River erosion in youthful stage
(b) Transportation action of the river
(c) River erosion in mature stage
(d) Deposition in old stage of a river

Q40. How many part-time members are there in Niti Aayog?
(a) 3
(b) 5
(c) 6
(d) 2

Q41. Which of the following is not an electromagnetic wave?
(a) γ-rays
(b) Cosmic rays
(c) Microwave
(d) Radio wave

Q42. Which one of the following is not a digestive enzyme in the human system?
(a) Trypsin
(b) Gastrin
(c) Ptyalin
(d) Pepsin
Q43. National Agricultural Cooperative Marketing Federation is known as-
(a) NIAM
(b) NAFED
(c) MARKFED
(d) NACMF

Q44. In which city is Aishbagh Stadium situated?
(a) Indore
(b) Gwalior
(c) Bhopal
(d) Jabalpur

Q45. Sugarcane is a type of _____.
(a) Creeper
(b) Tree
(c) Shrub
(d) Grass

Q46. Which of the following committee is related to the Selling of Oil and ONGC fields to private companies?
(a) Vasudev Committee
(b) K. Santhanam Committee
(c) Sushil Modi Committee
(d) Rajiv Kumar Committee

Q47. Who has been re-elected as Nigeria’s President?
(a) Muhammadu Buhari
(b) Ellen Johnson Sirleaf
(c) Aja Fatoumata Jallow
(d) Joice Mujuru

Q48. The ‘SAANS’ campaign has been launched by which union ministry?
(a) Ministry of Environment, Forest and Climate Change
(b) Ministry of Human Resource Development
(c) Ministry of Health and Family Welfare
(d) Ministry of Jal Shakti

Q49. Which country’s team has won the 2019 Davis Cup title?
(a) Canada
(b) Spain
(c) Switzerland
(d) USA
Q50. Which country has launched Kounotori 8, the World’s Biggest Transport Space Ship?
(a) Turkey
(b) USA
(c) China
(d) Japan

Q51. Let $x$ be the least number which when divided by 9, 13, 17 & 38 leaves a remainder of 7 in each case, but when $x$ is divided by 11 it leaves remainder 8. The sum of digits of $x$ is
(a) 36
(b) 27
(c) 34
(d) 41

Q52. What is the simplified value of \[
2 \left( 1 - \frac{1}{\frac{1}{16} + \frac{1}{2 + \frac{1}{3 + \frac{1}{4}}} \right) \times \frac{15}{16} \div \frac{34}{11} \text{ of } 7 \frac{1}{2} \text{ is}
\]
(a) $\frac{134}{544}$
(b) $\frac{121}{544}$
(c) $-\frac{134}{544}$
(d) $-\frac{121}{544}$

Q53. A seller sells 3 items A, B and C at a profit of 12%, 16% and 20% respectively. Overall profit from A and B is 15% whereas overall from all the 3 items is 16.25%. If the total number of items sold is 80 then find the individual number of items A, B and C sold?
(a) 15, 45, 20
(b) 45, 20, 15
(c) 12, 36, 32
(d) 30, 40, 10

Q54. The diagonals of three faces of a cuboid are 13, $\sqrt{281}$ and 20 linear units. Then the total surface area of the cuboid is
(a) 650 square units
(b) 658 square units
(c) 664 square units
(d) 672 square units
Q55. If the average of 42 innings of a batsman is 30. If highest and lowest innings are excluded then the average of remaining 40 innings is 28. If the difference between highest and lowest innings is 100 runs. Find his highest and lowest score.

(a) 100,40
(b) 125,15
(c) 110,30
(d) 120,20

Q56. After giving a discount of 10% on the marked price of an article a trader loses 1%. By what per cent should he increase the marked price in order to gain 8%, while the discount percentage remains the same?

(a) 10% (b) $11\frac{1}{9}%$
(c) $12\frac{1}{2}%$ (d) $9\frac{1}{11}%$

Q 57. On selling 140 articles for Rs. 360 a person bears a loss of 36%. How many articles he should sell for Rs. 198 to earn a profit of 54%?

(a) 32 (b) 64
(c) 44 (d) 36

Q58. The radii of the base of two cylinders are in the ratio 8:15 and their heights in the ratio 5:4. The ratio of their curved surface will be:

(a) 5:6
(b) 2:3
(c) 3:5
(d) 3:4

Q59. In ∆PQR, PQ = PR and X is a point on side PR. Such that QX is equal to QR. If PQ= 14.7 cm and QR is 7 cm what is the measure of XR?

(a) 3 cm
(b) $10/3$ cm
(c) $11/3$ cm
(d) $8/3$ cm

Q60. AB is a chord in a circle with centre O. AB is produced to C such that BC is equal to the radius of the circle. C is joined to O and produced to meet the circle at D. If ∠ACD = 32° then the measure of ∠AOD is

(a) 48°
(b) 96°
(c) 108°
(d) 80°
Q61. The sides AB, BC and AC of a ∆ABC are 13 cm, 9 cm and 11 cm respectively. A circle is inscribed in the triangle touching AB, BC and AC at D, E and F respectively. The different between the length of AD and CE is
(a) 3
(b) 4
(c) 5
(d) 2

Q62. In a Rhombus ABCD angle A is equal to 60°, AC and BD intersects at O, which of the following is not true
(a) $3AD^2 = 4OA^2$
(b) $\frac{AC \times BC}{2} = \text{area of ABCD}$
(c) $AD^2 = 4DO^2$
(d) $(OA)^2 = (OB)^2$

Q63. Compound interest on a principal for 2 years and 3 years is 600 and 938 rupees respectively. Find the rate of interest?
(a) 10%
(b) $9 \frac{1}{11} \%$
(c) $9 \frac{1}{3} \%$
(d) 9%

Q64. If $a^\frac{1}{3} + b^\frac{1}{3} + c^\frac{1}{3} = 0$, then find the value of $(a+b+c)^6$ is equal to
(a) $81 \cdot abc$
(b) $729a^2b^2c^2$
(c) $729 \cdot abc$
(d) $81a^2b^2c^2$

Q65. 60% of $(x-y) = 45\% (x+y)$ & $y = k\%$ of $x$, then 21% of $K$ is equal to
(a) 1
(b) 6
(c) 7
(d) 3

Q66. The ratio of two numbers is 3:5. If eight is added to the first and seven to the second, then the ratio becomes 2:3. What will be the ratio if 10 is added to both of them.
(a) 7:9
(b) 5:7
(c) 9:14
(d) 2:3
Q67. \(2\sin^2\beta + 4\cos(\alpha + \beta)\sin \alpha \sin \beta + \cos 2(\alpha + \beta) =\)
(a) \(\cos \beta\)
(b) \(\cos 2\alpha\)
(c) 1
(d) \(\cos 2\beta\)

Q68. For any real \(\theta\), the maximum value of
\(\cos^2(\cos \theta) + \sin^2(\sin \theta)\) is
(a) 1
(b) \(1 + \sin^2 1\)
(c) \(1 - \cos^2 1\)
(d) \(1 + \cos^2 1\)

Q69. Consider the following for real number \(\alpha, \beta, \gamma\) and \(\delta\).

1. \(\sec \alpha = \frac{1}{4}\)
2. \(\tan \beta = 20\)
3. \(\cosec \gamma = \frac{1}{2}\)
4. \(\cos \delta = 2\)
How many of the above statements are not possible?
(a) one
(b) two
(c) Three
(d) all are possible

Q70. A 12 m long wire is cut into two pieces one of which is bent into a circle and the other into a square enclosing the circle. What is the radius of the circle?
(a) \(\frac{12}{\pi + 4}\)
(b) \(\frac{6}{\pi + 4}\)
(c) \(\frac{3}{\pi + 4}\)
(d) \(\frac{6}{\pi + 2\sqrt{2}}\)

Q71. If \((x-7)^2 + (y + 10)^2 + (z - 6)^2 = 0\), then find the value of \(x+y+z\).
(a) 1
(b) 3
(c) 5
(d) 7

Q72. Find the fourth proportional to \(12x^3, 9ax^2, 8a^3x\).
(a) \(4a^3\)
(b) \(6a^4\)
(c) \(5a\)
(d) \(7a^5\)
Q73. A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹ 800 and ₹ 1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5:3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16. (1 unit in y axis is equal to 100 books)

What is the ratio of royalties earned in the following cases – By X for sale of books in India in 2013 and 2014 and By Y for sale of books abroad in 2015 and 2016?
(a) 62:117
(b) 63:130
(c) 65:138
(d) 64:135

Q74. A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹ 800 and ₹ 1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5:3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16. (1 unit in y axis is equal to 100 books)
What is the total amount of royalty paid (in ₹) to the authors during the years 2012, 2013 and 2016?
(a) 3,16,000  
(b) 2,73,400  
(c) 2,72,000  
(d) 2,71,600  

Q75. A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹ 800 and ₹ 1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5:3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16. (1 unit in y axis is equal to 100 books)

What is the total number of the copies of the book sold in India during 2012-2015?
(a) 2000  
(b) 1600  
(c) 1800  
(d) 1400  

Q76. Given below are four jumbled sentences. Select the option that gives their correct order.
A. To the world as the weapon, Mission Shakti, developed.  
B. Rolled out on the Rajpath during the 71st Republic Day parade.  
C. By the Defence Research and Development Organisation (DRDO),  
D. India on Sunday showcased its anti-satellite (A-SAT) missile capability.  
(a) DACB  
(b) BCDA  
(c) ACBD  
(d) BACD
Q77. In the sentence identify the segment which contains the grammatical error.
Beside clearing India's toughest exam, he acquired a scholarship for higher studies from Oxford University.
(a) he acquired a scholarship
(b) for higher studies from Oxford University
(c) Beside clearing India's toughest exam
(d) No error

Q78. Select the wrongly spelt word.
(a) Believe
(b) Recieve
(c) Relieve
(d) Conceive

Q79. Select the most appropriate meaning of the given idiom.
Curiosity killed the cat
(a) a person who constantly keeps asking questions is avoided by everybody
(b) everybody has a fatal weakness
(c) being inquisitive about other people's affairs may get you into trouble
(d) everyone feels like killing a nagging person

Q80. Select the word which means the same as the group of words given.
Speak or write about in an abusively disparaging manner.
(a) crucify
(b) dignify
(c) basify
(d) vilify

Q81. In the sentence identify the segment which contains the grammatical error.
The prosecution came up with a solid evidence which proved that the victim was shot by the same rifle.
(a) was shot by the same rifle
(b) a solid evidence which proved that
(c) The prosecution came up with
(d) No error

Q82. Improve the bracketed part of the sentence.
(What sort of a person) he is.
(a) What kind of a person
(b) What sort of person
(c) What a sort of person
(d) No improvement
Q83. Select the most appropriate word to fill in the blank.
More than 600 members of eight extremist groups in Assam ________ arms at an official programme on January 23, but eyebrows have been raised with regard to one of them — the National Liberation Front of Bengalis (NLFB).
(a) gave away
(b) gave out
(c) gave up
(d) put out

Q84. Select the antonym of the given word.
Endowment
(a) Disinherit
(b) Bequest
(c) Gift
(d) Shun

Q85. Select the synonym of the given word.
Encumbrance
(a) Incentive
(b) Stimulant
(c) Impediment
(d) Inducement

Directions (86-90) : 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.

The Supreme Court has taken a timely decision by ______ to hear a plea from the Election Commission of India (ECI) to direct political parties to not field candidates with criminal antecedents. The immediate provocation is the finding that 46% of Members of Parliament have criminal records. While the number might be ______ as many politicians tend to be charged ______ relatively minor offences — “unlawful assembly” and “defamation” — the real worry is that the current cohort of Lok Sabha MPs has the highest (29%) proportion of those with serious declared criminal cases compared to its recent ______.
Researchers have found that such candidates with serious records seem to do well ______ their public image, largely due to their ability to finance their own elections and bring substantive resources to their respective parties. Some voters tend to view such candidates through a narrow prism: of being able to represent their interests by hook or by crook. Others do not seek to punish these candidates in instances where they are in contest with other candidates with similar records. Either way, these unhealthy tendencies in the democratic system reflect a poor image of the nature of India’s state institutions and the quality of its elected representatives.

Q86. The Supreme Court has taken a timely decision by ______ to hear a plea
(a) hoping
(b) wishing
(c) thinking
(d) agreeing
Q87. While the number might be ______ as many politicians tend
(a) minimal
(b) inflated
(c) negligible
(d) avoidable

Q88. to be charged ______ relatively minor offences
(a) with
(b) on
(c) for
(d) in

Q89. proportion of those with serious declared criminal cases compared to its recent ______.
(a) ancestors
(b) predators
(c) successors
(d) predecessors

Q90. Researchers have found that such candidates with serious records seem to do well ______ their public image,
(a) instead
(b) in spite
(c) despite
(d) despite of

Q91. Select the synonym of the given word.
Deride
(a) Stimulate
(b) Comfort
(c) Jeer
(d) Inspire

Directions (92-93) : In the following questions, a sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

Q92. We cannot allow them to run away.
(a) They would not be allowed to run away.
(b) They cannot be allowed to run away.
(c) They could not be allowed to run away.
(d) They should not be allowed to run away.
Q93. A massive search operation has been launched by the Army to nab the terrorists.
(a) The Army has launched a massive search operation to nab the terrorists.
(b) The Army had launched a massive search operation to nab the terrorists.
(c) The Army launched a massive search operation to nab the terrorists.
(d) A massive search operation has launched the Army to nab the terrorists.

Q94. Given below are four jumbled sentences. Select the option that gives their correct order.
A. As the space for a public, shared, collectively crafted jurisprudence of citizenship.
B. It has also ushered in the full-blooded emergence of the constitutional commons.
C. Never witnessed before in the history of independent India.
D. The 70th Republic Day has ushered in lyrical constitutionalism of a kind.
(a) ABCD
(b) BDAC
(c) CABD
(d) DCBA

Q95. Select the word with the correct spelling.
(a) Tappistry
(b) Tapestry
(c) Tappestry
(d) Tapistry

Q96. Select the most appropriate meaning of the given idiom.
Every cloud has a silver lining
(a) no one wants a bad situation to be permanent
(b) if one wants rain then one has to bear with dark clouds
(c) every blessing turns into a wide curse
(d) every bad situation has some good aspects to it

Q97. Improve the bracketed part of the sentence.
Mr. Reddy will have to listen to different voices on (his proposal to locate) the State High Court in Kurnool, its legislature in Amaravati, and the government secretariat in Visakhapatnam.
(a) his proposed to locate
(b) his proposal to locating
(c) his proposal for locating
(d) No improvement

Q98. Select the most appropriate word(s) to fill in the blank.
The Constitution allows the _______ of the different practices of various religions until the state succeeds in its endeavour to secure a Uniform Civil Code.
(a) continuance
(b) abandonment
(c) termination
(d) dominance
Q99. Select the antonym of the given word.
Commotion
(a) Maelstrom
(b) Ruction
(c) Tranquility
(d) Kerfuffle

Q100. Select the word which means the same as the group of words given.
Happening in three years
(a) Tercentenary
(b) Tricentennial
(c) Triennial
(d) Sesquicentennial