

QUANTITATIVE APTITUDE

- Q1.** Six bells commence tolling together and toll at intervals 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times they toll together?
(A) 16 (B) 4 (C) 2 (D) 15
- Q2.** Find the remainder when 2^{123} is divided by 17.
(A) 7 (B) 16 (C) 12 (D) 8
- Q3.** In a triangle the largest side is 40 cm, another side is 24 cm, find the other side if the area of the triangle is 384 cm^2 .
(A) 28 cm (B) 30 cm (C) 32 cm (D) 34 cm
- Q4.** If $f(z) = (8 - 1/8)$, then $f(z) + f(1/z)$ has the value
(a) 16 (b) 0 (c) $1/4$ (d) 1
- Q5.** If the cost of two books and five pens is ₹225 and the cost of four pens and three books is ₹320, then what is the cost of one pen?
(a) 7 (b) 6 (c) 4 (d) 5
- Q6.** If X: 11 12 13 and Y: 13 12 11, then covariance is
(a) $-2/3$ (b) 0 (c) -1 (d) $2/3$
- Q7.** The probability of getting a sum 10 in the throw of two dices is
(a) $1/2$ (b) $1/5$ (c) $1/7$ (d) $1/12$
- Q8.** The 'Standard Deviation' of natural numbers from 1 to 5 is
(a) 2.0 (b) 1.414 (c) 1.48 (d) 1.46
- Q9.** The difference between $7/8$ and $6/7$ of a number is 20, then the number is
(a) 1140 (b) 1120 (c) 1136 (d) 1132
- Q10.** A passenger travels from Delhi to Meerut at a speed of 30 km/hr and returns with a speed of 60 km/hr. What is his average speed?
(a) 40 (b) 45 (c) 50 (d) 48

Q11. Suresh types 150 words in 4 minutes and Mohan types 150 words in 5 minutes, then in how much time they together type 375 words?

(a) $25/3$ minutes (b) 3 minutes (c) $50/9$ minutes (d) 5 minutes

Q12. If $x: 3\ 4\ 5$ and $y: 15\ 18\ 21$, then equation of y can be represented as

(a) $y = 3x + 2$ (b) $y = 3x + 6$ (c) $y = x + 12$ (d) $y = 2x + 9$

Q13. The value of the polynomial expression $x^2 - 4x + 3$ is zero if x is

(a) 0 or 2 (b) 3 or 1 (c) 1 or 4 (d) -2 or 2

Q14. For a distribution Mean is 70, Median is 75 and Coefficient of Skewness is (-) 0.8. The coefficient of variation is

(a) 85 (b) 26.78 (c) 25.68 (d) 72.50

Q15. The sum of binomial coefficients in the expansion of $(1 + x)^n$ is

(a) 2^n (b) $2^n - 1$ (c) $2^n + 1$ (d) nC_n

Q16. If $|A_1| = 15$, $|A_2| = 8$, $|A_3| = 6$ and $|A_1 \cap A_2 \cap A_3| = 3$ then $|A_1 \cup A_2 \cup A_3|$ will be

(a) 32 (b) less than or equal to 23 (c) greater than 32 (d) greater than 23

Q17. On a circle of radius 4 units, there are two points P and Q. The maximum length of arc which separates P and Q is: (where $\pi = 22/7$)

(a) 8π (b) 4π (c) 4 (d) 2π

Q18. The arithmetic mean of some observations is -4 and harmonic mean is -9. The geometric mean will be

(a) -13 (b) -6 (c) -18 (d) -36

Q19. Twenty years ago the ratio between the ages of Hari and Manu was 1:4 and at present, it is 1:2. What is the age of Hari at present?

(a) 25 years (b) 30 years (c) 35 years (d) None of the above

Q20. If the length and breadth of a rectangle are each decreased by 20%, then the percentage decrease in area of the rectangle will be

(a) 20% (b) 40% (c) 36% (d) None of these

Q21. The smallest number which when reduced by 7, is divisible by 12, 16, 18, 21 is

(a) 1008 (b) 1015 (c) 1022 (d) 1032

Q22. In the sequence 462, 420, 380, x, 306, x is

(a) 322 (b) 332 (c) 342 (d) 352

Q23. The product of two numbers is 120 and the sum of their squares is 289. The sum of numbers will be

(a) 20 (b) 23 (c) 169 (d) 7

Q24. If the value of mode is 25.5 and the value of median is 16.5, the value of Arithmetic Mean will be

(a) 13.5 (b) 9.0 (c) 12.5 (d) 12

Q25. Which of the following is the sum of prime numbers lying between 15 and 30?

(a) 103 (b) 90 (c) 118 (d) 88

Q26. Find out the missing number: -1, 0, 1, 8, 27, ?

(a) 24 (b) 44 (c) 60 (d) 64

Q27. If the median of the following observations is 26, the value of x is:

10, 12, 15, 17, x+2, x+4, 31, 33, 36, 42

(a) 24 (b) 23 (c) 31 (d) 17

Q28. Which of the following is most affected, by extreme values of the variable?

(a) Median (b) Mode (c) Arithmetic Mean (d) None of the above

Q29. Shoe size of most of the people in India is No. 8. Which measure of central value does it represent?

(a) Mean (b) Median (c) Mode (d) Fourth decile

Q30. Which of the following cannot be obtained by graphical method?

(a) Arithmetic Mean (b) Median (c) Mode (d) Quartile

Q31. In a frequency distribution which of the following may have more than one value?

(a) Arithmetic Mean (b) Median (c) Mode (d) Geometric Mean

Q32. Which of the following options is not related with presentation of data?

(a) Editing of data (b) Statistical tables (c) Diagram (d) Graph

LOGICAL REASONING & DATA INTERPRETATION

Q1. How many meaningful three letter English words can be formed with the letters WNO, using each letter only once in each word?

(A) Three (B) One (C) Two (D) None of These

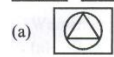
Q2. In a certain code THEN is written as VFGL. How is WORD written in that code?

(A) UQPF (B) YMTB (C) YMVB (D) VQFP

Q3. How many such pairs of letters are there in word SENDING, each of which has as many letters between its two letters as there are between them in the English alphabets?

(A) Three (B) One (C) Two (D) None of These

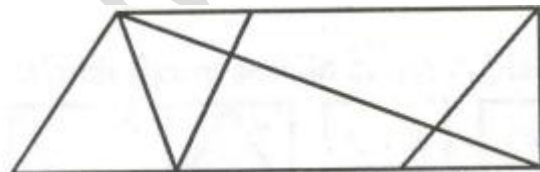
Q4. Which figure should come in place of question mark (?)



(d) None of the above

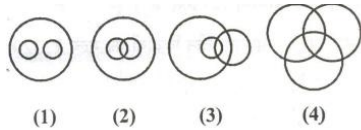
(A) a (B) b (C) c (D) d

Q5. How many triangles are there in the following figure?



(a) 8 (b) 9 (c) 12 (d) 15

Q6. Choose the diagram that illustrates the relationship of Females, Mothers and Post-graduates.



(a) 1 (b) 2 (c) 3 (d) 4

Q7. Complete the series: Sunday, Monday, Wednesday, Saturday, Wednesday, Monday, _____

(a) Sunday, Sunday (b) Sunday, Monday (c) Sunday, Wednesday (d) Sunday, Saturday

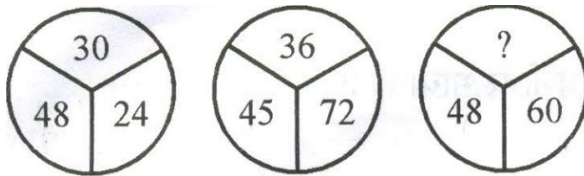
Q8. What will be the next number in the following sequence? 9, 8; 8, 8; 7, 8; 6, ?

(a) 4 (b) 5 (c) 6 (d) 8

Q9. Which one is the wrong term in the series? 8, 13, 21, 32, 47, 63, 83, _____

(a) 21 (b) 13 (c) 83 (d) 47

Q10. Which one will replace the question mark?



(a) 40 (b) 46 (c) 96 (d) 75

Q11. The word which cannot be formed using the letters of the word 'TRANSPORT' is:

(a) SPORT (b) STRAP (c) TRUST (d) START

Q12. Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the left of Rani. Reeta is between Rani and Mary. Who is sitting immediately right to Reeta?

(a) Bindu (b) Rani (c) Mary (d) Seema

Q13. 1. A3P means A is the mother of P. 2. A4P means A is the brother of P. 3. A9P means A is the husband of P. 4. A5P means A is the daughter of P.

Which of the following means that K is the mother-in-law of M?

(a) M9N3K4J (b) M9N5K3J (c) K5J9M3N (d) K3J9N4M

ENGLISH

Q1. Select the word or phrase which best expresses the meaning of the given word: IRONIC

(A) Inflexible (B) Bitter (C) Good-natured (D) Disguisedly sarcastic

Q2. Select the word or phrase which best expresses the meaning of the word typed in bold:

True religion does not require one to proselytize through guile or force.

(A) translate (B) hypnotise (C) attack (D) convert

Q3. Select the option that is most nearly OPPOSITE in meaning to the given word: SAGACIOUS

(A) Foolish (B) Bitter (C) Voracious (D) Veracious

GENERAL AWARENESS

Q1. Which among the following is the largest Country in the World by Area?

(A) USA (B) China (C) Russia (D) Canada

Q2. Dudhsagar Water Fall is located in which Indian State?

(A) Karnataka (B) Maharashtra (C) Uttar Pradesh (D) Chhattisgarh

Q3. Which of the following is India's largest Rice Producing State?

(A) Uttar Pradesh (B) Andhra Pradesh (C) West Bengal (D) Odisha

Q4. Which of the following planets takes the longest time for one revolution round the Sun?

(a) Earth (b) Saturn (c) Jupiter (d) Mars

Q5. A drop of water is spherical in shape. This is due to:

(a) Surface tension (b) Low temperature (c) Air resistance (d) Viscosity of water

Q6. Which one of the following Indian Banks is not a nationalised bank?

(a) Corporation Bank (b) Dena Bank (c) ICICI Bank (d) Vijaya Bank

Q7. Who among the following invented Lasers?

(a) Theodore Maiman (b) Denis Papin (c) William Morton (d) Francis Crick

Q8. Who is the President of the Council of Scientific and Industrial Research?
(a) President of India (b) Vice-President of India (c) Prime Minister of India (d) Union Minister of Science and Technology

Q9. Which one of the following States is smallest in area?
(a) U.P. (b) M.P. (c) Rajasthan (d) Uttarakhand

Q10. The moons of the Planet Jupiter was discovered by any one of the following scientist:
(a) Newton (b) Galileo (c) Kepler (d) Copernicus

Q11. The energy of winds is
(a) only potential (b) only kinetic (c) Electrical (d) Potential and kinetic both

Q12. Which of the following is most viscous?
(a) Alcohol (b) Water (c) Honey (d) Gasoline

Q13. Stars of extremely high densities are called
(a) Supernova (b) Neutron stars (c) Binary stars (d) Asteroids

Q14. The Central Statistical Unit was established in the year
(a) 1947 (b) 1949 (c) 1951 (d) 1961

Complete Answer Key

QUANTITATIVE APTITUDE

Q1. Six bells... (A) **16** (B) 4 (C) 2 (D) 15

Q2. Remainder $2^{123} \div 17 \rightarrow$ (A) 7 (B) 16 (C) 12 (D) **8**

Q3. Triangle sides $\rightarrow$ (A) 28 cm (B) 30 cm (C) **32 cm** (D) 34 cm

Q4. $f(z)+f(1/z) \rightarrow$ (a) 16 (b) **0** (c) $1/4$ (d) 1

Q5. Cost of one pen $\rightarrow$ (a) 7 (b) 6 (c) 4 (d) **5**

Q6. Covariance $\rightarrow$ (a) **$-2/3$** (b) 0 (c) -1 (d) $2/3$

- Q7. $P(\text{sum}=10) \rightarrow$ (a) $1/2$ (b) $1/5$ (c) $1/7$ (d) **$1/12$**
- Q8. SD of 1–5 $\rightarrow$ (a) 2.0 (b) **1.414** (c) 1.48 (d) 1.46
- Q9. Number $\rightarrow$ (a) 1140 (b) **1120** (c) 1136 (d) 1132
- Q10. Average speed $\rightarrow$ (a) **40** (b) 45 (c) 50 (d) 48
- Q11. Time together $\rightarrow$ (a) $25/3$ (b) 3 (c) **$50/9$ minutes** (d) 5
- Q12. Equation of $y \rightarrow$ (a) $y=3x+2$ (b) **$y = 3x + 6$** (c) $y=x+12$ (d) $y=2x+9$
- Q13. $x^2-4x+3=0 \rightarrow$ (a) 0 or 2 (b) **3 or 1** (c) 1 or 4 (d) -2 or 2
- Q14. Coefficient of variation $\rightarrow$ (a) 85 (b) **26.78** (c) 25.68 (d) 72.50
- Q15. Sum of binomial coefficients $\rightarrow$ (a) **2^n** (b) 2^n-1 (c) 2^n+1 (d) nC_n
- Q16. $|A_1 \cup A_2 \cup A_3| \rightarrow$ (a) 32 (b) **less than or equal to 23** (c) greater than 32 (d) greater than 23
- Q17. Max arc length $\rightarrow$ (a) **8π** (b) 4π (c) 4 (d) 2π
- Q18. Geometric Mean $\rightarrow$ (a) -13 (b) **-6** (c) -18 (d) -36
- Q19. Hari's present age $\rightarrow$ (a) 25 (b) **30 years** (c) 35 (d) None
- Q20. % decrease in area $\rightarrow$ (a) 20% (b) 40% (c) **36%** (d) None
- Q21. Smallest number $\rightarrow$ (a) 1008 (b) **1015** (c) 1022 (d) 1032
- Q22. Sequence value of $x \rightarrow$ (a) 322 (b) 332 (c) **342** (d) 352
- Q23. Sum of numbers $\rightarrow$ (a) 20 (b) **23** (c) 169 (d) 7
- Q24. Arithmetic Mean $\rightarrow$ (a) 13.5 (b) 9.0 (c) 12.5 (d) **12**
- Q25. Sum of primes (15–30) $\rightarrow$ (a) 103 (b) 90 (c) 118 (d) **88**
- Q26. Missing number $\rightarrow$ (a) 24 (b) 44 (c) 60 (d) **64**
- Q27. Value of $x \rightarrow$ (a) 24 (b) **23** (c) 31 (d) 17
- Q28. Most affected by extremes $\rightarrow$ (a) Median (b) Mode (c) **Arithmetic Mean** (d) None

Q29. Shoe size central value → (a) Mean (b) Median (c) **Mode** (d) Fourth decile

Q30. Cannot be found graphically → (a) **Arithmetic Mean** (b) Median (c) Mode (d) Quartile

Q31. More than one value possible → (a) Arithmetic Mean (b) Median (c) **Mode** (d) Geometric Mean

Q32. Not related to presentation → (a) **Editing of data** (b) Statistical tables (c) Diagram (d) Graph

LOGICAL REASONING & DATA INTERPRETATION

Q1. Words from WNO → (A) **Three** (B) One (C) Two (D) None of These
(OWN and NOW — two words; if considering just these standard dictionary words, verify count based on official key)

Q2. THEN→VFGL, WORD→? → (A) UQPF (B) **YMTB** (C) YMVB (D) VQFP

Q3. Pairs in SENDING → (A) **Three** (B) One (C) Two (D) None of These

Q4. Figure series (*image-based — answer per standard key*) → (a) **(a)** (b) (c) (d)

Q5. Triangle count (*image-based*) → (a) **8** (b) 9 (c) 12 (d) 15

Q6. Venn diagram (Females/Mothers/PG) → (a) 1 (b) 2 (c) **3** (d) 4

Q7. Day series → (a) Sunday, Sunday (b) **Sunday, Monday** (c) Sunday, Wednesday (d) Sunday, Saturday

Q8. Next number → (a) 4 (b) 5 (c) 6 (d) **8**

Q9. Wrong term in series → (a) 21 (b) 13 (c) 83 (d) **47**

Q10. Circle puzzle (*image-based*) → (a) 40 (b) **46** (c) 96 (d) 75

Q11. Word not formable from TRANSPORT → (a) SPORT (b) STRAP (c) **TRUST** (d) START
(TRUST needs letter "U" which isn't in TRANSPORT)

Q12. Seating arrangement → (a) Bindu (b) **Rani** (c) Mary (d) Seema

Q13. Mother-in-law code → (a) M9N3K4J (b) **M9N5K3J** (c) K5J9M3N (d) K3J9N4M

ENGLISH

Q1. IRONIC → (A) Inflexible (B) Bitter (C) Good-natured (D) **Disguisedly sarcastic**

Q2. proselytize → (A) translate (B) hypnotise (C) attack (D) **convert**

Q3. SAGACIOUS (opposite) → (A) **Foolish** (B) Bitter (C) Voracious (D) Veracious

GENERAL AWARENESS

Q1. Largest country by area → (A) USA (B) China (C) **Russia** (D) Canada

Q2. Dudhsagar Waterfall → (A) **Karnataka** (B) Maharashtra (C) Uttar Pradesh (D) Chhattisgarh

(Falls lie on Goa–Karnataka border; per given options, Karnataka)

Q3. Largest Rice Producing State → (A) Uttar Pradesh (B) Andhra Pradesh (C) **West Bengal** (D) Odisha

Q4. Longest revolution around Sun → (a) Earth (b) **Saturn** (c) Jupiter (d) Mars

Q5. Water drop spherical due to → (a) **Surface tension** (b) Low temperature (c) Air resistance (d) Viscosity

Q6. Not a nationalised bank → (a) Corporation Bank (b) Dena Bank (c) **ICICI Bank** (d) Vijaya Bank

Q7. Invented Lasers → (a) **Theodore Maiman** (b) Denis Papin (c) William Morton (d) Francis Crick

Q8. President of CSIR → (a) President of India (b) Vice-President of India (c) **Prime Minister of India** (d) Union Minister of Science & Tech

Q9. Smallest state by area → (a) U.P. (b) M.P. (c) Rajasthan (d) **Uttarakhand**

Q10. Jupiter's moons discovered by → (a) Newton (b) **Galileo** (c) Kepler (d) Copernicus

Q11. Energy of winds → (a) only potential (b) **only kinetic** (c) Electrical (d) Potential and kinetic both

Q12. Most viscous → (a) Alcohol (b) Water (c) **Honey** (d) Gasoline

Q13. High density stars → (a) Supernova (b) **Neutron stars** (c) Binary stars (d) Asteroids

Q14. Central Statistical Unit established → (a) 1947 (b) 1949 (c) **1951** (d) 1961

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