Sections	Number of questions	Marks	Duration of Exam
1. English Language	30	30	60 minutes
2. Reasoning	35	35	
3. Quantitative Aptitude	35	35	
	Total = 100 Qs.	Total marks = 100	

1. English Language

Direction (Q. 1 - 5): In each of the following sentences, there are blanks. Below each sentence there are words denoted by the numbers 1), 2), 3), 4), and 5). Find out which word can be filled up in the blanks in the sentence in the same sequence to make it meaningfully complete.

1. After many years in the he returned to politics last year.

1) exile, routine 2) cold, active 3) bewilderment, regular 4) seclusions, daily 5) news, centre

2. I was given to that you were leaving soon.

1) feel 2) think 3) realise 4) understand 5) recognise

3. He is to learn how to his superior officers.

1) yet, address 2) advised, test 3) said, deal 4) ordered, regared 5) get, communicate

4. He was by the mob for causing a nuisance while

1) arrested, drinking 2) retained, drink 3) caught, drank 4) apprehended, drunk 5) punished, drank

5. 'Right to Education' bill in the parliament was by majority votes.

1) carried 2) approved 3) introduced 4) accepted 5) voted

Direction (Q. 6 - 15): Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is 5), ie 'No error'. (Ignore the errors of punctuation, if any.)

6. 1) Hardly had I reached /2) the bus stop I /3) was hit by a /4) very thick metal rod. /5) No error

7. 1) I had caution him /2) against making any /3) statement until he had /4) seen his lawyers. /5) No error

8. 1) It is a view of the beautifully decorated window /2) displayed by the organisers /3) of an exhibition of indoor /4) plants at the scouts pavilion. /5) No error

9. 1) The manager of the bank, /2) along with /3) his whole staff /4) have resigned. /5) No error

10. 1) The escape of David to London /2) was successfully planned /3) but no sooner was this done then /4) George was captured and held prisoner. /5) No error

11. 1)1 cannot understand /2) that how you can /3) think of joining your office /4) in such a critical condition. /5) No error

12. 1) A first European sailor /2) to come to India /3) in modern times /4) was Vasco de Gama. /5) No error

13. 1) Temples were /2) crowded since /3) early morning /4) by devotees. /5) No error

14. 1) The judge was /2) convinced that /3) neither of the five /4) accused was guilty. /5) No error

15. 1) Writing with /2) a sense of urgency /3) the letter was soon /4) finished and posted. /5) No error

Direction (Q. 16 - 25): Which of the phrases 1), 2), 3) and 4) given below each statement should replace the phrase printed in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 5) as the answer.

16. I regret to say so many things out of excitement.

1) regret say 2) to saying 3) regret saying 4) regret of saying 5) No correction required

17. Suddenly, everybody stopped of running for the cover.

1) to run for 2) running for 3) run to 4) having run for 5) No correction required

18. You can encourage my helping the poor.

1) my help of 2) me help to 3) myself helping 4) me helping 5) No correction required

19. I started work on 6 o'clock this morning and now it's over.

1) started working at

2) started work from

3) started to work since

4) start for work on

5) No correction required

20. Having failed twice, he hadn't wanted to try again.

1) hasn't wanted for

2) didn't want to

3) wouldn't want to

4) wasn't wanted to

5) No correction required

21. Being deceived by his friend, the shopkeeper lost all hope.

1) Being deceived of

2) Been deceived from

3) Deceived by

4) Deceiving of

5) No correction required

22. Before you turn in for the night take a glass of warm milk

1) turn out of 2) turn with in 3) turn off at 4) turn for 5) No correction required

23. The children listened a shocking story.

1) listen 2) listened to 3) listen for 4) listening about 5) No correction required

24. We were astonished at seen the eight-year-olds cleaning the school compound.

1) astonished for seen

2) astonished about at seeing

3) astonished to see

4) astonished of seeing

5) No correction required

25. Blinded with a sandstorm, the caravan fell into disorder.

1) Blinded by 2) Been blind of 3) Being blind to 4) Having being blind 5) No correction required

Direction (Q. 26 - 30): Rearrange the following five sentences (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph; then answer the questions given below.

(A) Some instruments have a sound box that resonates.

(B) Musical instruments work by making sound waves.

(C) The shape and size of the instrument and the material of which it is made affect the sound.

(D) Musical instruments can be divided into groups depending on the way they make sound.

(E) This means that it vibrates at the same frequency as the vibrations created by the original sound, making the sound fuller and richer.

26. Which of the following would be the FIRST sentence after rearrangement?

1) A 2) B 3) C 4) D 5) E

27. Which of the following would be the SECOND sentence after rearrangement?

1) A 2) B 3) C 4) D 5) E

28. Which of the following would be the THIRD sentence after rearrangement?

1) A 2) B 3) C 4) D 5) E

29. Which of the following would be the FOURTH sentence after rearrangement?

1) A 2) B 3) C 4) D 5) E

30. Which of the following would be the FIFTH sentence after rearrangement?

1) A 2) B 3) C 4) D 5) E

Answers:

1. (2)

2. (4)

3. (1)

4. (4)

5. (4)

6. (2); 'the bus stop when I'

7. (1); 'I cautioned him'

8. (5)

9. (4); 'has resigned'

10. (3); 'was this done than'

11. (2); Remove 'that'.

12. (1); 'The first'

13. (4); 'with the devotees'

14. (3); 'none of the'

15. (1); 'Being written with'

16. (3)

17. (2)

18. (5)

19. (1)

20. (2)

21. (3)

22. (3)

23. (2)

24. (3)

25. (1)

26. (2)

27. (3)

28. (1)

29. (5)

30. (4)

2. Reasoning

1. How many such pairs of letters are there in the word PREVIOUS each of which has as many letters between them in the word as in the English Alphabet?

1) none 2) one 3) two 4) three 5) More than three

2. How many such digits are there in the number 96258431 each of which is as far away from the beginning of the number as when the digits are arranged in descending order within the number?

1) none 2) one 3) two 4) three 5) More than three

3. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

1) NQ 2) DA 3) JM 4) RU 5) FJ

4. How many meaningful English words can be made with the letters ADLE using each letter only once?

1) one 2) two 3) three 4) four 5) More than four

5. Four of the following five are alike in a certain way and so form a group. Which is one that does not belong to that group?

1) 73 2) 67 3) 77 4) 71 5) 61

6. In a certain code 'ALTERED' is written as 'UMBGEFS'. How will 'RELATED' be written in that code?

1) MFSBEFU 2) MFSCEFU 3) MFSZEFU 4) MFSDCDS 5) None of these

7. Kamal walks 20 m towards North. He then turns left and walks 40 m. He again turns left and walks 20 m. Further, he moves 20 m after turning to the right. How far is he from his original position?

1) 20 m 2) 30 m 3) 50 m 4) 60 m 5) None of these

8. Pointing to a man, a woman says, "This man's son's sister is my mother-in-law." How is the woman's husband related to the man?

1) grandson 2) son 3) son-in-law 4) nephew 5) None of these

9. In a certain code '247' means 'good little boy', '258' means 'tall big boy' and '791' means 'beautiful little girl'. Which digit in that language means 'good'?

1) 1 2) 7 3) 2 4) 9 5) None of these

10. In a class of 40 children, Vivek's rank is eighth from the top. Suyash is five ranks below Vivek. What is Suyash's rank from the bottom?

1) 27 2) 29 3) 28 4) 26 5) None of these

Direction (Q. 11 - 15): Study the following arrangement carefully and answer the questions given below:

W * 2 B D 7 U 4 ? 6 9 + N $ T 5 # M A V @ E 8 F ©3

11. Which of the following is the fourth to the left of the 20th from left end of the above arrangement?

1) 5 2) 9 3) # 4) T 5) None of these

12. How many such symbols are there in the above arrangement each of which is immediately preceded by a letter and also immediately followed by a number?

1) none 2) one 3) two 4) three 5) More than three

13. Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

1) B7D 2) 46? 3) 9N+ 4) EF8 5) 5#M

14. Which of the following is the fifth to left of the ninth from the right end of the above arrangement?

1) $ 2) N 3) B 4) 8 5) None of these

15. How many such symbols are there in the above arrangement each of which is immediately preceded by a number and also immediately followed by a letter?

1) three 2) one 3) none 4) two 5) More than three

Direction (Q. 16 - 20): Study the following information carefully to answer these questions.

Eight persons A, B, C, D, E, F, G and H are sitting around a circle facing the centre. A is not the neighbour of E. C is third to the right of B. H is second to left of E, who is next to the right of C. F is not, neighbour of E or B, and is to the immediate left of G.

16. Which of the following is the correct position of C?

1) To the immediate right of E

2) To the immediate right of H

3) To the immediate left of A

4) To the immediate left of H

5) None of these

17. Who is to the immediate right of B?

1) A 2) G 3) H 4) Cannot be determined 5) None of these

18. Which of the following pairs of persons represents F's neighbours?

1) D and E 2) G and B 3) G and D 4) B and D 5) None of these

19. Which of the following groups has the first person sitting between the other two persons?

1) GBA 2) AHC 3) CDE 4) FGB 5) None of these

20. Who is to the immediate left of F?

1) G 2) B 3) E 4) D 5) None of these

Direction (Q. 21 - 25): In each of the questions below, three statements are given followed by two conclusions numbered I and II. You have to take the statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

1) if only conclusion I follows.

2) if only conclusion II follows.

3) if either conclusion I or conclusion II follows.

4) if neither conclusion I nor conclusion II follows.

5) if both conclusions I and II follow.

21. Statements: All desks are mirrors.

All mirrors are chairs.

Some chairs are pens.

Conclusions: I. Some pens are desks.

II. Some chairs are desks.

22. Statements: Some crows are parrots.

Some parrots are lions.

All lions are cats.

Conclusions: I. Some cats are parrots.

II. Some cats are crows.

23. Statements: All rings are bangles.

All bangles are tents.

All tents are skies.

Conclusions: I. Some skies are bangles.

II. Some tents are rings.

24. Statements: Some glasses are rivers.

Some rivers are bottles.

Some bottles are plates.

Conclusions: I. Some plates are rivers.

II. Some bottles are glasses.

25. Statements: All trains are trucks.

Some trucks are cars.

All cars are papers.

Conclusions: I. Some papers are trains.

II. No paper is a train.

Direction (Q. 26 - 30): Following questions are based on the five three-digit numbers given below:

879 937 365 398 256

26. If the positions of first and the third digits within each number are interchanged, which of the following will be the second digit of second lowest number?

1) 6 2) 5 3) 3 4) 7 5) None of these

27. Which of the following is the sum of the first and the second digits of the second highest number?

1) 15 2) 17 3) 16 4) 12 5) 10

28. If the first and second digits within each number are interchanged, which of the following will be the third digit of the lowest number?

1) 8 2) 5 3) 7 4) 6 5) None of these

29. Which of the following is the difference between the second digits of the highest number and the lowest number?

1) 3 2) 5 3) 4 4) 1 5) None of these

30. If in each number, the second and the third digits are interchanged, which will be the second highest number?

1) 937 2) 365 3) 398 4) 879 5) 256

Direction (Q. 31 - 35): In these questions the symbols @, #, *, S, and % are used with different meaning as follows:

'P@Q' means 'P is smaller than Q'.

'P#Q' means 'P is either smaller than or equal to Q'.

'P*Q' means 'P is equal to Q'.

'P$Q' means 'P is greater than Q'.

'P%Q' means 'P is either greater than or equal to Q.

In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is/are definitely true. Give answer

1) if only conclusion I is true.

2) if only conclusion II is true.

3) if either conclusion I or conclusion II is true.

4) if neither conclusion I nor conclusion II is true.

5) if both conclusions I and II are true.

31. Statements: D*E, E@I, I@K

Conclusions: I.D@K II.E@K

32. Statements: V$W, W%U, V%R

Conclusions: LV%U II.W%R

33. Statements: F@J, J#T, T@R

Conclusions: I.F@R II.J@R

34. Statements: M@K, K#H, H%L

Conclusions: I.MSH II.M*L

35. Statements: Q$H, H*L, L%F

Conclusions: LQ$F II. Q@L

Answers:

1. (1);

2. (4);

After arrangement

9 6 2 5 8 4 3 1

9 8 6 5 4 3 2 1

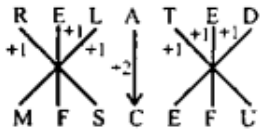
3. (5);

In all others, there is a gap of two letters.

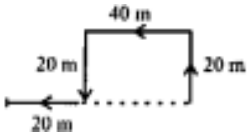
4. (3); DALE, DEAL, LEAD

5. (3); All others are prime numbers.

6. (2);



7. (4);



20 + 40 = 60 m

8. (1);

Man's son's sister = Man's daughter Man's daughter is the mother of woman's husband

9. (5);

247 = good little boy .....(i)

258 = tall big boy .....(ii)

791 = beautiful little girl .....(iii)

From (i) and (iii), little = 7 .....(iv)

From (i) and (ii), boy = 2 .....(v)

Using (iv) and (v) in (i), we get: good = 4

10. (3);

Vivek's rank = 8th

$\therefore$ Suyash's rank $= (8 + 5 =) 13^{th}$

$\therefore$ Suyash's rank from the bottom $= (40 - 13 + 1 =) 28^{th}$

11. (1);

4^{th} to the left of 20^{th} from left = $(20 - 4 =) 16^{th}$ from left = 5

12. (3); w*2, F©3

13. (5); On all others,

1^{st} element + 2 = 2^{nd} element and 1^{st} element + 1 = 3^{rd} element.

14. (2);

5^{th} to the left of 9^{th} from right = $(9 + 5 =) 14^{th}$ from right.

15. (4); 9+N, 5#M

16. (2);

17. (1);

18. (3);

19. (5);

20. (4);

21. (2);

All desks are mirrors + All mirrors are chairs = A + A = A = All desks are chairs – conversion – Some chairs are desks (I). Hence II follows. All desks are chairs + Some chairs are pens = A + I = No conclusion. Hence I does not follows.

22. (1);

Some parrots are lions + All lions are cats = I + A = I = Some parrots are cats – conversion – Some cats are parrots (I). Hence I follows. Some crows are parrots + Some parrots are cats = I + I = No Conclusions. Hence II does not follow.

23. (5);

All bangles are tents + All tents are skies = A + A = A = All bangles are skies – conversion – some skiers are bangles (I). Hence I follows. All rings are bangles + All bangles are tents – conversion – some tents are rings (I). Hence II follows.

24. (4); I + I = No Conclusion.

25. (3);

A + I = No conclusion. Hence neither I nor II follows by combination. However, either of the two must follow as they form a complementary I – E pair.

26. (2); Second lowest number = 256 = 652

27. (1); Second highest number = 879 = 8 + 7 = 15

28. (3); Lowest number = 397

29. (5); difference = 5 – 3 = 2

30. (4);

31. (5); D = E < I < K

32. (4); V > W $\geq$ U; V $\geq$ R

33. (5); F < J $\leq$ T < R

34. (4); M < K $\leq$ H $\geq$ L

35. (1); Q > H = L $\geq$ F

3. Quantitative Aptitude

Direction (Q. 1 - 25): What value should come in place of question mark (?) in the following equations?

1. (704*555) 55 =?

1) 7428 2) 7364 3) 7212 4) 7104 5) 7028

2. $(t*4)^2 - (17)^2$ = ?

1) 463 2) 644 3) 784 4) 867 5) 927

3. V5T84-V3249 -7

1) 15 2) 25 3) 35 4) 45 5) 55

4. $\sqrt[3]{32768}$ = ?

1) 26 2) 28 3) 32 4) 34 5) 38

5. 17.5% of 860 = 13.5 + ?

1) 131 2) 133 3) 137 4) 141 5) 137

6. $\frac{147}{?} = \frac{?}{48}$

1) 84 2) 86 3) 88 4) 92 5) 94

7. $\frac{4}{7}$ of $\frac{3}{8}$ of $\frac{1}{2}$ of 1568 = ?

1) 166 2) 168 3) 172 4) 174 5) 178

8. $\sqrt{9025} \div \sqrt{361}$ = 175 ?

1) 30 2) 33 3) 35 4) 37 5) 39

9. 8.4 x 5.6 ÷ ? = 19.6

1) 1.8 2) 2.4 3) 2.8 4) 3.2 5) 3.4

10. 18635 – 12377 + 3271 = ?

1) 9529 2) 9343 3) 9671 4) 9279 5) 9732

11. $\sqrt{?}$ x 127 = 3429

1) 729 2) 784 3) 961 4) 1089 5) None of these

12. 88% of 365 - ? = 300

1) 17.4 2) 18.6 3) 20.8 4) 21.2 5) 22.8

13. 333 x 33 x 3 = ?

1) 32967 2) 33927 3) 31787 4) 30927 5) None of these

14. 31327 + 198 + 2137 + 56 = ?

1) 33718 2) 33218 3) 31618 4) 32228 5) 34778

15. 56 x 66 = (5.6% of ?) ÷ 2

1) 660000 2) 330000 3) 132000 4) 264000 5) None of these

16. 6.2 x 5.5 x 0.5 = ?

1) 17.05 2) 34.1 3) 51.5 4) 25.75 5) None of these

17. 656 x 138 + 132 x 22 = ?

1) 92162 2) 92824 3) 93432 4) 93628 5) None of these

18. $\frac{2}{1384}$ x ? = 51

1) 5882 2) 5646 3) 6224 4) 5428 5) 6424

19. $(5.4)^2 - (2.7)^2$ = ?

1) 19.81 2) 21.87 3) 22.44 4) 20.08 5) 18.96

20. 973742 – 62137 – 4188 – 366 = ?

1) 907051 2) 906051 3) 905051 4) 904051 5) 903051

21. $(13\frac{3}{5} + 1\frac{9}{10})$ x 2 =?

1) 29 2) 30 3) 31 4) 32 5) 33

22. $(78)^2 \div \sqrt[3]{59319}$ = ?

1) 78 2) 156 3) 234 4) 312 5) 39

23. (1742.4) ÷ (36 x 2.2) = ?

1) 18 2) 22 3) 24 4) 26 5) None of these

24. 999.99 + 99.999 - 9.919 = ?

1) 1079.19 2) 1081.91 3) 1090.07 4) 1119.90 5) None of these

25. (7875) ÷ (14 x 2.5) = ?

1) 155 2) 185 3) 225 4) 245 5) 255

26. A television is bought for_____ and sold at _____ What is the gain per cent?

1) 12.5% 2) 15% 3) 17.5% 4) 18.5% 5) 22.5%

27. The average age of eight boys is 16 years. If the age of one more boy is added to it, the average age increases by 1 year. What is the age of that boy?

1) 20 years 2) 24 years 3) 25 years 4) 18 years 5) 17 years

78. What value should come in the place of question mark (?) in the given number series?

24, 37, 54, 75, 100, 129, ?

1) 157 2) 158 3) 161 4) 162 5) 163

29. Which is the smallest fraction among the following?

1) $\frac{7}{9}$ 2) $\frac{4}{5}$ 3) $\frac{6}{7}$ 4) $\frac{8}{11}$ 5) $\frac{9}{13}$

30. What percentage of 525 should be added to it to make it 735?

1) 25% 2) 30% 3) 36% 4) 40% 5) 45%

31. A car is running at a speed of 44 km/h. How much distance will it cover in 1 hour 45 minutes?

1) 7.7 x 104m 2) 7.7 X 103 3) 7m 7 x m 4) 0.77 x 104m 5) None of these

32. The length and width of a rectangular hall are 45 and 30 feet respectively. If the total cost on carpeting the floor comes Rs. 774250 then what is the cost of carpet per square foot?

1) Rs. 45 2) Rs. 55 3) Rs. 65 4) Rs.75 5) None of these

33. The cost of a chair and that of a table are in the ratio of 3 : 4. If the costs of chair and table are increased by 25% each then what will be the new ratio of the costs of chair and table?

1) 1:1 2) 3:4 3) 3:5 4) 4:5 5) None of these

34. A 120m-long train crosses a 30m-long bridge in 7.5 seconds. What is the speed of that train in km/h?

1) 45 km/h 2) 54 km/h 3) 72 km/h 4) 90 km/h 5) None of these

35. Of an amount, 20% of 25% of 30% is Rs. 75. Then what is the original amount?

1) Rs. 1000 2) Rs. 2500 3) Rs 4000 4) Rs. 5000 5) None of these

Answers:

1. (4);

2. (4);

3. (1);

4. (3);

5. (5);

6. (1);

7. (2);

8. (3);

9. (2);

10. (1);

11. (1);

12. (4);

13. (1);

14. (1);

15. (3); ? = $\frac{56\ x\ 66\ x\ 2\ x\ 100}{5.6}$ = 132000

16. (1);

17. (3);

18. (1)

19. (2);

20. (1);

21. (3);

22. (2); $(78)^2 + \sqrt[3]{59319}$ = 6084 + 39 = 156

23. (2);

24. (3);

25. (3);

26. (3); Reqd % = $\frac{15980-13600}{13600}$ x 100

= 17.5

27. (3);

Age of 8 boys = 16 x 8 = 128 years

Age of total 8 + 1 = 9 boys

= (16 + 1) x 9 = 153 years

$\therefore$ Age of 9^{th} boy $= 153 - 128 = 25$ years

28. (4);

Number is increasing by 13, 17, 21, 25, 29, 33.

29. (5); $\frac{7}{9}$ = 0.777, $\frac{4}{5}$ =0.8, $\frac{6}{7}$ = 0.85

$\frac{8}{11}$ = 0.72, $\frac{9}{13}$ = 0.69

30. (4);

Reqd % = $\frac{(735-525)}{525}$ x 100

= 40%

31. (1);

Distance = 44 x 1.75 = 77 km

= 7.7 x10^4 m

32. (2); Cost per sq foot = $\frac{74250}{45\ x\ 30}$ = 55

33. (2);

Let the cost of chair be 3x and table be 4x.

New cost of chair = 3x + $\frac{3x}{4}$ = $\frac{15x}{4}$

New cost of table = 4x + $\frac{4x}{4}$ = 5x

$\therefore$ Ratio = $\frac{15x}{4}$ x $\frac{1}{5x}$ = $\frac{3}{4}$ = 3 : 4

34. (3);

Speed = $\frac{Distane}{Time}$ = $\frac{120+30}{7.5}$

= $\frac{150}{7.5}$ = 20 m/s = 20 x $\frac{18}{5}$ = 72 km/h

35. (4);

Let the amount be x.

$\therefore$ X x $\frac{20}{100}$ x $\frac{25}{100}$ x $\frac{30}{100}$ = 75

$\therefore$ x = $\frac{75\ x\ 5\ x\ 4\ x\ 10}{3}$ = 5000