

JIPMAT 2021 PAPER

Section- 1: Quantitative Aptitude

1. The digit in the unit's place of the number represented by $(7^{95} - 7^{58})$ is

- a) 0
- b) 4
- c) 6
- d) 7

2. The HCF of $9/10, 12/25, 18/35, 21/40$ is

- a) $3/5$
- b) $252/5$
- c) $63/700$
- d) $3/1400$

3. The value of $(25.732^2 - 15.732^2)$ is

- a) 4.1464
- b) 41.464
- c) 414.64
- d) 4146.4

4. A train starts full of passengers. At the first station, it drops one third of passengers and takes 280 more. At the second station, it drops one half of the new total and takes 12 more. On arriving at the third station, it is found to have 248 passengers. The number of passengers in the beginning was

- a) 156
- b) 288
- c) 564
- d) 608

The value of $(\frac{1}{\sqrt{9}-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-\sqrt{4}})$ is

5.

- a) $1/5$
- b) 0
- c) 1
- d) 5

6. In a cricket team of 11 players, the average age is 28 years. Out of these, the average ages of three groups of three players each are 25 years, 28 years and 30 years respectively. If in

these groups, the captain and the youngest player are not included and the captain is eleven years older than the younger player, then the age of the captain is

- a) 33 years
- b) 34 years
- c) 35 years
- d) 36 years

7. A number consists of two digits whose sum is 8. If 18 is added to the number, its digits are interchanged. The number is

- a) 26
- b) 35
- c) 53
- d) 62

8. $\frac{4}{7}$ of a pole is in the mud. When $\frac{1}{3}$ of it is pulled out, 250 cm of the pole is still in the mud. The length of the pole is

- a) 1050 cm
- b) 1350 cm
- c) 437.5 cm
- d) 750 cm

9. If $2^x = 3^y = 6^{-z}$, then $(\frac{1}{x} + \frac{1}{y} + \frac{1}{z})$ is equal to

- a) 0
- b) 1
- c) 2
- d) 4

10. A candidate scoring 25% marks in an examination fails by 30 marks while another candidate who score 50% marks gets 20 marks more than those required to pass. The pass percentage is

- a) 30%
- b) 33%
- c) 35%
- d) 40%

11. A dishonest dealer professes to sell his goods at cost price. But he uses a false weight and thus gains $6\frac{18}{47}\%$. For a kg, he uses a weight of

- a) 940 g
- b) 947 g
- c) 953 g
- d) 960 g

12. Harish divides two sums of money among his four sons Naresh, Vipin, Bhupesh, and Yogesh. The first sum is divided in the ratio 4 : 3 : 2 : 1 and second in the ratio 5 : 6 : 7 : 8. If the second sum is twice the first, then the largest total is received by

- a) Bhupesh
- b) Naresh
- c) Vipin
- d) Yogesh

13. A is working, and B a sleeping partner in a business. A puts in Rs.12000 and B Rs. 20000. A received 10% of the profit for managing, the rest being divided in proportion to their capitals. Out of a total profit of Rs. 9600, the money received by A will be

- a) Rs. 3240
- b) Rs. 3600
- c) Rs. 4200
- d) Rs. 4840

14. A contractor undertakes to do a piece of work in 40 days. He engages 100 men at the beginning and 100 more after 35 days and completes the work in stipulated time. If he had not engaged the additional men, how many days behind schedule would it be finished?

- a) 3
- b) 5
- c) 6
- d) 8

15. 4 men and 6 women finish a job in 8 days, while 3 men and 7 women finish it in 10 days. In how many days will 10 women finish it?

- a) 24
- b) 32
- c) 36
- d) 40

16. A pump can be operated both for filling a tank and for emptying it. The capacity of tank is 2400 m^3 . The emptying capacity of the pump is 10 m^3 per minute higher than its filling capacity. Consequently, the pump needs 8 minutes less to empty the tank as to fill it. The filling capacity of pump is

- a) $40 \text{ m}^3/\text{minute}$
- b) $50 \text{ m}^3/\text{minute}$
- c) $60 \text{ m}^3/\text{minute}$
- d) $80 \text{ m}^3/\text{minute}$

17. A boy covers a certain distance on a toy train. If the train moved 4 kmph faster, it would take 30 minutes less. If it moved 2 kmph slower, it would have taken 20 minutes more. The distance is

- a) 40 km
- b) 50 km
- c) 60 km
- d) 80 km

18. A train with 90 kmph crosses a bridge in 36 s. Another train 100 m shorter crosses the same bridge at 45 kmph. The time taken by the second train to cross the bridge will be

- a) 60 s
- b) 64 s
- c) 68 s
- d) 72 s

19. A man rows 20 km upstream and back again to the starting point in 110 minutes. If the speed of stream is 2 kmph, then the speed of rowing in still water is

- a) 20 kmph
- b) 22 kmph
- c) 24 kmph
- d) 28 kmph

20. A mixture of alcohol and water contains 35% alcohol by weight. if 25 g water is added to such a mixture of 100 g, then the percentage of alcohol in the mixture is

- a) 25%
- b) 28%
- c) 30%
- d) 32%

21. A man pays 40 times the annual rent to purchase a building. The rate % per annum he derives from his investment is

- a) 2.5%
- b) 3.33%
- c) 4.0%
- d) 6.67%

22. A certain sum is lent at a certain rate of compound interest. It grows to 1.44 times its value in 2 years. If the same sum is lent at simple interest at the same rate, in how many years would it double itself?

- a) 3 years
- b) 4 years
- c) 5 years
- d) 6 years

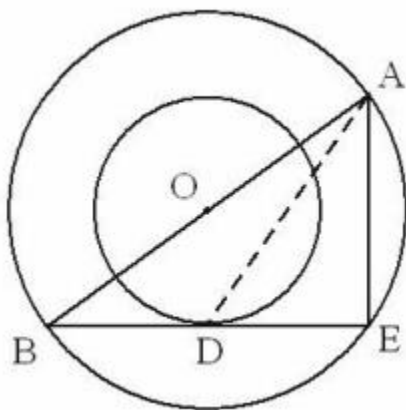
23. In a rhombus, the length of the two diagonals are 40m and 30m respectively. Its perimeter will be

- a) 100 m
- b) 70 m
- c) 80 m
- d) 90 m

24. The length of canvas 1.1 m wide required to build a conical tent of height 14m and the floor area 346.5m^2 is

- a) 490 m
- b) 525 m
- c) 665 m
- d) 860 m

25. One cubic meter of iron weighs 7.800 kg. The weight of iron in a pipe of length 4 m, whose interior and exterior diameters measure 10 cm and 12 cm respectively, is nearly
- 108 kg
 - 118 kg
 - 78 kg
 - 88 kg
26. In a flat race, A beats B by 15 m and C by 29 m. When B and C run over the same course together, B wins by 15 m. The length of the course is
- 250 m
 - 200 m
 - 225 m
 - 275 m
27. At what angle the hands of a clock are inclined at 15 minutes past 5?
- $72\frac{1}{2}^\circ$
 - $67\frac{1}{2}^\circ$
 - 64°
 - $58\frac{1}{2}^\circ$
28. The odd term out in the series 15, 16, 34, 105, 424, 2124, 12756 is
- 105
 - 16
 - 2124
 - 34
29. ABC is right angled triangle at C. Let $BC = a$, $CA = b$ and $AC = c$ and let p be the length of perpendicular from C on AB, then cp is equal to
- $a + b$
 - ab
 - ac
 - bc
30. The radius of two concentric circles are 13 cm and 8 cm. AB is a diameter of the bigger circle. BD is tangent to the smaller circle touching it at D. The length AD is.



- 15 cm

- b) 17 cm
- c) 19 cm
- d) 21 cm

31. The minimum value of $(2 \sin^2\theta + 3 \cos^2\theta)$ is

- a) 0
- b) 1
- c) 2
- d) 3

32. If the m^{th} term of an arithmetic progression is $1/n$ and n^{th} term is $1/m$, then mn^{th} term of this progression will be

- a) $1/mn$
- b) m/n
- c) n/m
- d) 1

33. If points $(t, 2t)$, $(-2, 6)$ and $(3, 1)$ are collinear, then t is equal to

- a) $\frac{3}{4}$
- b) $\frac{4}{3}$
- c) $\frac{3}{5}$
- d) $\frac{5}{3}$

Section 2: Verbal

1. Read the following passage and answer the question that follows.

Earth is the only planet so far know with the suitable environment for sustaining life. Man has been tampering with the ecosphere for a long time and is forced to recognize that environmental resources are scarce. Environmental problems are really social problems. They begin with people as cause and end with people as victims. Unplanned use of resources has resulted in the depletion of fossil fuels, pollution of air and water, deforestation which has resulted in ecological imbalance and draining away of national wealth through heavy expenditure on oil and power generation.

Ques. Depletion of fossil fuels, pollution of air and water and deforestation will never occur in case of

- a) improper use of resources
- b) over use of resources
- c) planned use of resources
- d) unplanned use of resources

2. Choose the word which is most nearly the same in meaning to the word 'VENERATE'.

- a) Abuse
- b) Accuse
- c) Defame
- d) Respect

3. Choose the word which is opposite in meaning to the word 'AUDACIOUS'

- a) Cowardly
- b) Manifest
- c) Obvious
- d) Venture

4. Fill in the blanks by the proper preposition in the sentence

What is the time _____ your watch?

- a) by
- b) in
- c) on
- d) with

5. Fill in the blanks by the same proper word from the given option in both the sentences.

A. The manager is not _____ for his position.

B. In a _____ of anger, the teacher turned him out of the class.

- a) capable
- b) fit
- c) qualified
- d) true

6. In this question, out of the four options choose the one which can be substituted for the sentence. One who feels at home in every country

- a) Citizen
- b) Cosmopolitan
- c) Denizen
- d) Metropolitan

7. In this question, four options are given for the idiom underlined in the sentence. Choose the one which best expresses the meaning of the idiom.

For his alleged involvement in espionage, he is under a cloud these days.

- a) enjoying favourable luck
- b) experiencing cloudy weather
- c) under observation
- d) under suspicion

8. The following phrase is followed by four options. One of the options best describes its meaning. Select the correct option.

A thing of little or no importance

- a) trifle
- b) twinkling
- c) useless
- d) vague

9. Select the word which is correctly spelt.

- a) VIOLANCE

- b) VIOLENCE
- c) VOILANCE
- d) VOILANCE

10. In this question, a sentence has been given in Active voice. From the given options, choose the one which best expresses the given statement in Passive voice.

The cat drank all the milk.

- a) All the milk had been drunk by the cat.
- b) All the milk has been drunk by the cat.
- c) All the milk was drunk by the cat.
- d) All the milk was drunk by the cat.

11. In this question, a sentence has been given in Direct form. Out of the four options, select the one which best expresses the same sentence in Indirect form.

He said, "I must go at once".

- a) He asked to go at once.
- b) He said that he had gone at once.
- c) He said that he had to go at once.
- d) He told if he had to go at once.

12. From the given options, identify the tense used in the sentence "Welcome to the ceremony".

- a) Past indefinite tense
- b) Past perfect tense
- c) Present Indefinite tense
- d) Present perfect tense

13. In this question, six words are given which are denoted by I, II, III, IV, V and VI. By using all the six words, each only once, you have to frame a meaningful and grammatically correct sentence. The correct order of the words is your answer, to be chosen by you from the given options.

I. it; II. wanted; III. not; IV. you; V. is; VI. what

- a) V, I, III, VI, IV, II
- b) VI, IV, II, V, I, III
- c) VI, V, II, I, III, IV
- d) VI, V, III, IV, I, II

14. In this question, a pair of words is given with certain relationship followed by four pairs of words. Choose the pair that best expresses a relationship similar to that expressed in the original pair. MAN : HUMANITY

- a) Drop : Ocean
- b) Flower : Fragrance
- c) Frame : Picture
- d) Scholar : Books

15. In this question, a sentence has been split into four parts denoted as P, Q, R and S. These parts are jumbled up. Rearrange the jumbled parts to make a meaningful sentence.

P. far beyond that any minory communalism can

- Q. that in a democratic setup like India,
R. and this for the simple reason
S. majority communalism can acquire power
a) Q R S P
b) R Q P S
b) R Q S P
d) S R P Q

16. Certain parts in the following sentence are underlined. One of the parts has an error. Identify that part from the given options.

She is not one of those who is so foolish.

- a) one of
b) She is not
c) so foolish
d) who is

17. In this question, there are two sentences I and II, each having a blank, followed by four words. Select only one word which fills both the blanks.

I. The company has agreed in _____ to our suggestion.

II. The equipment works on the _____ of Archimedes.

- a) basis
b) general
c) principle
d) view

18. Read the following passage and answer the question that follows.

There are many types of protein molecules in the body, and each type is specific to its function. For example, proteins such as keratin and collagen give strength and elasticity to hair, as well as to skin and tendons; haemoglobin and myoglobin are the oxygenbinding proteins of the blood and the muscle respectively; and ovalbumin, the principal protein of egg white is responsible for setting and foaming properties of eggs. A particularly important group of proteins known as enzymes, direct all the body cells to produce chemical reactions. These reactions provide the basis of every type of cell activity, including growth, repair, the production of energy and the excretion of waste products.

Proteins are classified according to

- a) the number of molecules
b) the part of the body they are found in
c) their functions
d) their names

19. In this question, each option has a pair of words. Each pair consists of words which are more or less similar in meaning (synonyms). However, one pair of words may be wrong. Select the pair which is wrong.

- a) Danger : Peril
b) Indulge : Deny
c) Infringe : Break
d) Luxury : Pleasure

20. In this question, word pairs consist of words which are opposite in meaning to each other (antonyms). Select the pair which consist of words which are not opposite in meaning.

- a) Excitable : Calm
- b) Exquisite : Delicate
- c) Numb : Active
- d) Obnoxious : Free

21. Fill in the blanks by the proper preposition in the sentence

I have not seen him _____ a long time.

- a) by
- b) for
- c) from
- d) since

22. Fill in the blanks by proper word in the sentence.

He was frightened _____.

- a) for being killed
- b) from being killed
- c) of being killed
- d) to be killed

23. In this question, Out of the four options choose the one which can be substituted for the sentence.

A general pardon granted by the Government to political offenders

- a) amnesty
- b) excuse
- c) honesty
- d) pardon

24. In the following sentence, an idiom is underlined and is followed by four options of the words. Select from the options, the one which is nearest to the underlined idiom.

He was all at sea when he began his new job.

- a) happy
- b) puzzled
- c) sad
- d) triumphant

25. In the following sentence, a phrase is underlined and is followed by four options of the words. Select from the options of the words. Select from the options, the one which is nearest in meaning to the underlined phrase.

Those who work by fits and starts seldom show good results.

- a) disinterestedly
- b) irregularly
- c) rarely
- d) regularly

26. In this question, select the word which is incorrectly spelt.

- a) CURRICULER
- b) DIAGNOSIS
- c) DIFFICULTIES
- d) ESSENTIALLY

27. In the question, a sentence has been given in Active voice. Out of the four options, select the one which best expresses the same sentence in Passive voice.

Who wrote it?

- a) By who will it be written?
- b) By who would it be written?
- c) By whom might it be written?
- d) By whom was it written?

28. In this question, a sentence has been given in Indirect form. Out of the four options suggested, select the one which best expresses the same sentence in Direct form. He says that he is very sorry.

- a) He said, "He is very sorry".
- b) He said, "He was very sorry".
- c) He says, "I am very sorry".
- d) He told me, "I felt sorry".

29. From the given options, identify the tense used in the sentence "Everyone shall be reaching by tomorrow."

- a) Future continuous tense.
- b) Future Indefinite tense
- c) Future perfect continuous tense.
- d) Present continuous tense

30. In this question, six words are given which are denoted by I, II, III, IV, V and VI. By using all six words, each only once, you have to frame a meaningful and grammatically correct sentence. The correct order of the words is your answer, to be chosen by you from the given options.

I. development; II. are; III. routes; IV. there; V. of; VI. three

- a) III, V, I II, IV, VI
- b) III, V, VI II, I, IV
- c) IV, II, VI, III, V, I
- d) VI, II, IV, III, V, I

31. In this question, a related pair of words is followed by four pair of words. Select the pair that best expresses a relationship similar to that expressed in the original pair.

LIQUEFY : PETRIFY

- a) Blend : Separate
- b) Cash : Invest
- c) Melt : Freeze
- d) Soften : Frighten

32. In this question, a sentence has been split into four parts denoted as P, Q, R and S. These parts are jumbled up. Rearrange the jumbled parts to make a meaningful sentence.

P. among ordinary people to see health as a

Q. is that there is an increasing tendency

R. right and responsibility

S. the only hopeful sign in such a situation

a) P R S Q

b) R Q S P

c) S Q P R

d) S Q R P

33. Certain parts in the following sentence are underlined. One of the parts has an error. Identify that part from the given options.

Mr. Gupta, our Chairman, accompanied by his secretary have arrived at the office.

a) accompanied

b) at the office

c) have

d) his secretary

34. In this question, there are two sentences I and II, each having a blank, followed by four words, Select only one word which fills both the blanks.

I. The child sat _____ through the long sermon.

II. We have _____ to receive the documents.

a) out

b) quiet

c) quietly

d) still

Section- 3: LRDI

1. In this question, a number series is given with one term missing. Choose the correct option that will continue the same pattern. 17, 19, 15, 23, 7, 39, ?

a) 18

b) -25

c) 25

d) 9

2. In this question, an alphabet series is given with one term missing. Choose the correct option that will continue the same pattern. MOQ, SUW, YAC, ?

a) DHJ

b) EGI

c) FIJ

d) XAD

3. In this question, a letter series is given where some of the letters are missing. The missing letters are given in the order as one of the options below it. Choose the correct option. a

_____ c _____ ba _____ ca _____ cb

- a) abcc
- b) acba
- c) bcaa
- d) bcba

4. There is a certain relation between two given numbers on one side of :: and one number is given on another side of :: . A number is to be found from the given options having the same relation with this number as the given pair. 210 : 380 :: 182 : ?

- a) 156
- b) 240
- c) 272
- d) 342

5. There is a certain relation between two given words on one side of :: and one word is given on another side of :: . A word is to be found from the given options having the same relation with this word as the given pair.

Drill : Bore :: Sieve : ?

- a) Pry
- b) Rinse
- c) Sift
- d) Thresh

6. In this question, there are four options. Three of them are alike and one is different. Find the odd one out.

- a) December, 2021
- b) February, 2021
- c) March, 2021
- d) November, 2021

7. This question is based on the information given below : The six faces of cube are painted in a manner that no two adjacent faces have the same colour. The three colours used in painting are red, blue and green. The cube is then cut into 36 smaller cubes in a manner that 32 cubes are of one size and the rest of a bigger size and each of the bigger cube has no red side. How many cubes only have one side coloured?

- a) 0
- b) 16
- c) 4
- d) 8

8. Which one word cannot be made from the word 'MIRACULOUS'?

- a) LOCUS
- b) MOLAR
- c) SCAR
- d) SOLACE

9. If '+' means '÷', '-' means '×', '÷' means '+' and '×' means '-' then $36 \times 12 + 4 \div 6 + 2 - 3$ is equal to

- a) 6
- b) 18
- c) 2
- d) 42

10. In this question, relationship between different elements is shown in the statements. The statements are followed by two conclusions numbered I and II.

Statement : $H > P \leq E < L = R < V ; F \geq V$

Conclusion : I. $F > E$

II. $H > R$

Study the conclusions and give your answer as follows :

- a) If both the conclusions I and II are true
- b) If neither conclusion I nor conclusion II is true
- c) If only conclusion I is true
- d) If only conclusion II is true

11. Study the information given below and answer the question that follow. There are four friends A, B, C, D. One of them is a cricketer and studies chemistry and biology. A and B play football. Both football players study mathematics. D is a boxer. One football player also studies physics. The boxer studies mathematics and accounts. All the friends study two subjects each and play one game each. How many games are played and subjects studied by the friends A, B, C, D?

- a) 2 games and 3 subjects
- b) 2 games and 4 subjects
- c) 3 games and 4 subjects
- d) 3 games and 5 subjects

12. Read the following information and then answer the question given below.

(i) Q is brother of R.

(ii) P is sister of Q

(iii) T is brother of S

(iv) S is daughter of R

Who are the niece of Q?

- a) P and T
- b) Q and T
- c) R and P
- d) S and T

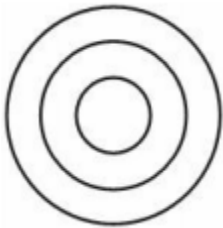
13. In a certain code, 'il be pee' means 'roses are blue', 'sik hee' means 'red flowers' and 'pee mit hee' means 'flowers are vegetables', then which word stands for 'red'?

- a) be
- b) cannot be determined
- c) hee
- d) sik

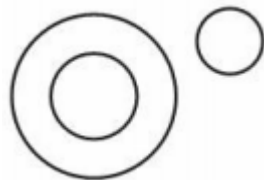
14. Sandhya walks 10 m towards the south. Turning to the left, she walks 20 m and then turns to her right. After moving a distance of 20 m, she turns to the right and walks 20 m. Finally, she turns to the right and moves 10 m. In which direction is she moving

- a) East
- b) North
- c) South
- d) West

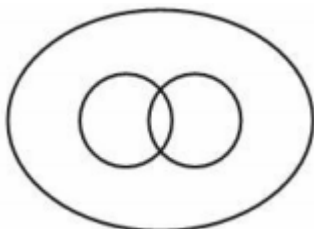
15. Which of the following figures correctly represent the relation between Tall men, Black haired people, Indians



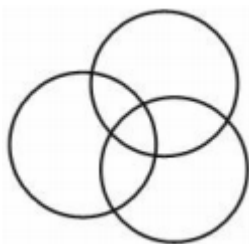
a)



b)



c)



d)

16. Chandrika is 8 ranks ahead of Jaya who ranks twenty sixth in a class of 42. What is Chandrika's rank from the last?

- a) 24th
- b) 25th
- c) 34th
- d) 9th

17. X was born on March 6, 2014. The same year Independence Day was celebrated on Friday. On which day X was born?

- a) Friday
- b) Saturday

- c) Thursday
- d) Wednesday

18. In this question, find out how many such pairs of letters are there in the given word each of which has as many letters between them in the word as in the English alphabet.

CREATIVE

- a) Four
- b) One
- c) Three
- d) Two

19. Study the following arrangement carefully and answer the question given below.

A B 7 C D 9 Z Y * P Z M © K S 3 ↑ 5 N T @

How many such digits are there in the sequence each of which is immediately preceded as well as followed by a letter?

- a) None
- b) One
- c) Three
- d) Two

20. In this question, arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the options provided below the question.

- A. Presentation
- B. Recommendation
- C. Arrival
- D. Discussion
- E. Introduction

- a) C, E, A, D, B
- b) C, E, D, B, A
- c) C, E, D, B, A
- d) E, C, D, A, B

21. Below a question is given along with two statements numbered I and II. You have to decide whether the data provided in the statements are sufficient to answer the question. If a and b are integers, is $(a + b)$ an odd number?

Statement I : $8 < a < 11$

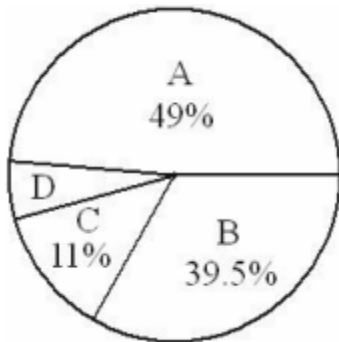
Statement II : $7 < b < 10$

Choose you answer from the options given below:

- a) If the data in statement I alone are sufficient to answer the question.
- b) If the data in statement I and statement II both are necessary to answer the question
- c) If the data in statement I and statement II together are not sufficient to answer the question.
- d) If the data in statement II alone are sufficient to answer the question.

22. Study the graph and answer the question that follows:

The graph indicates the cost of the production of a firm.



A = Raw material cost
 B = Packing material cost
 C = Fixed manufacturing expenses
 D = Labour cost

The total value in rupees of all sectors is 120.0 lakh. If the total labour cost increases to Rs. 2.4 lakh, what percentage increase does it represent?

- a) 25%
- b) 300%
- c) 400%
- d) 75%

23. In this question, there are two statements followed by two conclusions numbered I and II. You have to take the given statement to be true, even if it seems to be at variance with commonly known facts and then decide which of the conclusions logically follow(s) from the given statements.

Statement : No women can vote.

Some women are politicians.

Conclusion : I. Male politicians can vote.
 II. Some politicians can vote.

Your answer will be as follows:

- a) If both conclusion I and II follow.
- b) If neither conclusion I nor conclusion II follows
- c) If only conclusion I follows
- d) If only conclusion II follows

24. In this question, a statement is given which is followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the conclusions and decide which of them logically follow(s).

Statement : Fortune favours the brave.

Conclusion : I. Risks are necessary for success.
 II. Cowards die many times before their death.

Mark your answer as :

- a) If both conclusion I and II follow
- b) If neither conclusion I nor conclusion II follows
- c) If only conclusion I follows
- d) If only conclusion II follows

25. In this question, there are two statements labelled as Assertive (A) and Reason (R).

Assertion (A) : An electric bulb makes a 'bang' when it is broken.

Reason (R) : The air inside the bulb rushes out immediately on breaking.

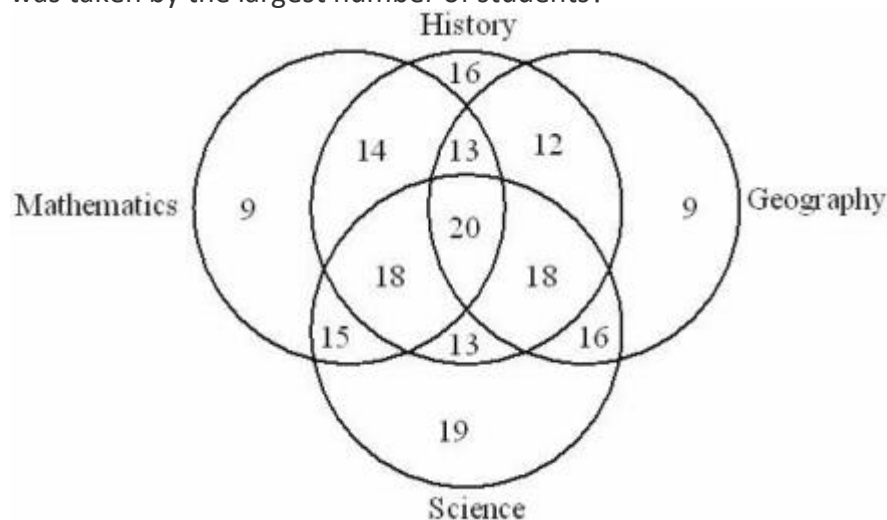
Mark your answer as follows:

- a) A is false but R is true.
- b) A is true but R is false.
- c) Both A and R are true and R is the correct explanation of A.
- d) Both A and R are true but R is not the correct explanation of A.

26. In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family?

- a) 2
- b) 3
- c) 4
- d) 5

27. The diagram indicates the number of students taking different subjects. Which subject was taken by the largest number of students?



- a) Geography
- b) History
- c) Mathematics
- d) Science

28. Study the following information and answer the question.

Seven villages A, B, C, D, E, F and G are situated as follows:

E is 2 km to the west of B

F is 2 km to the north of A

C is 1 km to the west of A

D is 2 km to the south of G

G is 2 km to the east of C

D is exactly in the middle of B and E.

How far is D from F (in km) as the crow flies?

- a) $\sqrt{5}$
- b) $2\sqrt{2}$

- c) $\sqrt{17}$
- d) $\sqrt{20}$

29. In this question, choose that set of numbers from the four options, that is similar to the set (63, 49, 35)

- a) (64, 40, 28)
- b) (72, 40, 24)
- c) (72, 48, 24)
- d) (81, 63, 45)

30. In this question, a group three interrelated words are given. You have to study the relationship between these words and choose another group with similar relationship from the given options. Pink : Red : White

- a) Brown : Black : Blue
- b) Green : Blue : Yellow
- c) Orange : Yellow : Black
- d) Yellow : Red : Green

31. The question consists of two words that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words.

Wind : Gale

- a) Disaster : Calamity
- b) Disgust : Infatuation
- c) Love : Passion
- d) Storm : Sea

32. In this question, four numbers are given. Out of these, three are alike in a certain way and one is different. Choose the one which is different from the rest three.

- a) 5698
- b) 7894
- c) 8793
- d) 9865

33. In this question, four groups of letters are given, out of which three are alike in a certain way while one is different. Choose the odd one.

- a) B d E g
- b) K m N p
- c) P r S u
- d) T w X z

OFFICIAL ANSWER KEY:

Section-1 Quants

1.	B	10.	D	19.	B	28.	C
2.	D	11.	A	20.	B	29.	B
3.	C	12.	B	21.	A	30.	C
4.	B	13.	C	22.	C	31.	C
5.	D	14.	B	23.	A	32.	D
6.	C	15.	D	24.	B	33.	B
7.	B	16.	B	25.	Question dropped by NTA		
8.	A	17.	C	26.	C		
9.	A	18.	B	27.	B		

Section-2 Verbal

1.	C	10.	D	19.	B	28.	C
2.	D	11.	C	20.	B	29.	A
3.	A	12.	C	21.	B	30.	C
4.	A	13.	A	22.	C	31.	C
5.	B	14.	A	23.	A	32.	C
6.	B	15.	C	24.	B	33.	C
7.	D	16.	D	25.	B	34.	D
8.	A	17.	C	26.	A		
9.	B	18.	C	27.	D		

Section-3 LRDI

1.	B	10.	C	19.	D	28.	C
2.	B	11.	D	20.	A	29.	D
3.	D	12.	D	21.	C	30.	B
4.	D	13.	D	22.	B	31.	C
5.	C	14.	B	23.	B	32.	C
6.	A	15.	D	24.	C	33.	D
7.	D	16.	B	25.	B		
8.	D	17.	C	26.	B		
9.	D	18.	C	27.	B		