

XAT SAMPLE PAPER – set 2

This sample paper comprises of sections as listed below:

Section 1- verbal ability

Section 2- Quantitative Ability

Section 3- Data interpretation and reasoning

Section A: VERBAL ABILITY



1. Choose the correct option for the accurate meaning for 'edifice'?

Sentence: The edifice of 'public space', built up through literacy or informative institutions of popular education and on which the pillars of democracy were mounted, is now crumbling.

Building

Infrastructure

Paraphernalia

None of the above

Ans. B

2. Melt: Liquid:: Freeze : ?

A. Ice

B. Condense

C. Solid

D. Crystal

Ans. C

3. 'Ranch on the Ganges' this phrase :

A. Denotes an object

B. Qualifies an object

C. Alludes to a suggestive meaning

D. None of the above

Ans. B

4. Choose the odd pair:

A. blacksmith: anvil

B. carpenter: saw

C. barber: scissor

D. goldsmith: ornaments

Ans. D

5.'My leg is injured but when I become aware of the pain it begins to hurt and the pain becomes so excruciating that I sometimes lose control over my senses.' Referring from the above lines 'excruciating' refers to:

A. Suddenness of the pain

B. Objectivity of the pain

C. Longevity of the pain

D. None of the above

Ans. D

6. Roster: Duty:: Inventory : ?

A. Furnace

B. Exports

C. Goods

D. Produce

Ans. C

7. Hilt : Sword :: Out work : ?

A. Hippodrome

B. Field

C. Rink

D. Fortress

Ans. D

8. Anemia: Blood: : Anarchy : ?

A. Disorder

B. Monarchy

C. Government

D. lawlessness

ANS. C

9. Heed: Neglect:: Pacify: ?

A. Victory

B. Incite

C. Allay

D. War

Ans. B

10. Probe: Wound :: Anemography : ?

A. Humidity

B. Rainfall

C. Force

D. Pressure

Ans. C

11. Choose the correct meaning for Stringent

A. Tense

C. Strict

B. Stringy

D. Causing to Shrink

Ans. C.

12. Synonym for INSOMNIA

A. Lethargy

C. Drunkenness

B. Sleeplessness

D. Unconsciousness

Ans. B

13. Meaning of LAUD

A.Lord

C. Praise

B.Eulogy

D. Extolled



Ans. C

14. Other word for REPERCUSSION

A.Recollection

C. Reaction

B. Clever replies

D. Remuneration

Ans. C

15. Synonym of IMPROMPTU

- A. Offhand**
- C. economy**
- B. Unimportant**
- D. Foolishness**

Ans. A



16. Other word for FRUGALITY

- A. Foolishness**
- C. Extremity**
- B. Enthusiasm**
- D. Economy**

Ans. D

17. Meaning of HESITATED

- A. Stopped**
- C. Slowed**

B.Paused

D. Postponed

Ans. B

18. What does CORRESPONDENCE imply?

Ans. follower

19. Synonym for FORAY

A. Maraud

C. Ranger

B. Contest

D. Intuition

Ans. A

20. Meaning of the word RECKLESS

Courageous

Rash

Bold

Daring

Ans. B

Directions for questions 21-30: Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

21. With great efforts his son succeeded in convincing him not to donate his entire wealth to an orphanage

- A. and lead the life of a wealthy merchant
- B. but to a home for the forsaken children
- C. and make an orphan of himself
- D. as the orphanage needed a lot of donations

Ans. C

22. The employer appeared to be in such an affable mood that Rohit

- A. decided to ask for a raise in his salary

- B. was scared to talk to him about his leave
- C. felt very guilty for his inadvertent slip
- D. Was pained to press his demand for a new flat.

Ans. A

23. He always stammers in public meetings, but while delivering today's speech

- A. was fairly audible to everyone present in the hall
- B. was free from that defect
- C. could not be understood properly
- D. was not received satisfactorily

Ans. B

Q24. Answer the questions on the basis of the information given below:

- (A) P, R, S, Q and T are sitting in a circle facing the centre.
- (B) R is immediate left of T.
- (C) P is between S and T.

24. Who is to the immediate left of R?

- (a) P (b) Q (c) S (d) T (e) cannot be determined

Ans. B

25. To find the answer to the above problem which of the following statements can be dispensed?

- (a) None (b) B only (c) C only (d) B or C only

Ans. A

26. As a general rule, politicians do not centre stage.

Ans. Forbid

27. The study on import of natural gas from Iran through a pipeline would be completed shortly.

Ans. Feasibility

28. His party is solely to be blamed for the political in the country.

A. Devaluation

B. Stalemate

Ans.B

29. We still have not given our to conduct the survey of natural resources in our state.

A. Compliance

B. Consent

Ans. B

30. Oxygen: Burn :: Carbon dioxide : ?

A. Isolate

B. Foam

C. Extinguish

D. Explode

Ans. C

Section B: QUANTITATIVE ABILITY

1. Find the domain of the definition of the function $y=1/(4-x^2)^{1/2}$

a. $(-2, 2)$

b. $(-\infty, -2) \cup (2, \infty)$ excluding -2 & 2.

Ans. a

2. Find the number of divisors of 1080 excluding the perfect squares divisors.

- a. 28 b. 29 c. 30 d. 31

Ans. a

3. A two digit number exceeds by 19 the sum of the squares of its digits and by 44 of the digits double product. Find the number.

- a. 62 b. 22 c. 72 d. 12

Ans. c

4. If a times the a th term of an AP is equal to b times the b th term, find the $(a+b)$ th term.

- a. $a^2 - b^2$ b. 0 c. $a - b$ d. 1

Ans. b

5. Find the value of the expression: $1 - 4 + 5 - 8 \dots$ to 50 terms.

- a. -150 b. -75 c. -50 d. 75

Ans. b

6. What will be the value of $x^{1/2} \cdot x^{1/4} \cdot x^{1/8} \dots$ to infinity.

- a. x^2 b. x c. $x^{3/2}$ d. x^3

Ans. b

7. A spherical balloon is inflated and its radius is increasing at 4cm/second. At What rate would the volume is increasing when its radius is 14cm?

- a. (56)3 cm³/sec
- b. 9856 cm³/sec
- c. 10,000cm³ /sec
- d. None of these

Ans. b

8. When 62924 is divided by 21, find the remainder.

- a. 1
- b. 2
- c. 5
- d. 11

Ans. a.

9. Which of the following is the lowest?

- a. 302 -122 - 32
- b. 352 -142 - 62
- c. 302 -102 - 53
- d. 332 -172 - 12

Ans. A

10. a, b and c are the sides of a triangle. Equations $ax^2 + bx + c = 0$ and $3x^2 + 4x + 5 = 0$ have a common root. what is angle C is equal to

- a. 600 b. 900**

Ans . b

11. Sum of all prime numbers less than 50 is

- a. more than 500 b. less than 200**

- c. a prime number d. an even number**

Ans. d

12. N = abc is a three-digit number. N is a perfect Square of an even number. To find N which of following information is sufficient?

A. a, b, c are three consecutive digits but not in order.

B. N is divisible by 18.

C. Units digit of N^2 is c.

a. Only A and B together are sufficient

b. A and C together are sufficient

c. Only B and C together are sufficient

d. Either A and C together or B and C together are sufficient

Ans. d

13. Let x, y, z be three positive integers satisfying $y = 3x$, $z = 4x$, $x + y + z = 3k$, k is an integer. Which of the following is the smallest value of k which satisfies that x, y, z are even numbers?

- a. 8 b. 10 c. 12 d. 16

Ans. d

14. $N = aebfcg$ is a six-digit number. If $a = e$, $b = f$ and $c = g$ then which of the given information's is not correct?

- a. If $g = 4$ then N is divisible by 44.
b. If $a + b + c = 6$ then N is divisible by 33.
c. If $g = 8$, then for different values of a, b, c and e , for which N may be a perfect square
d. If $b = c = 0$, then N is not a perfect square.

Ans.c

15. $N = abcd$ is a four digit number and $M = xyz$ is a three-digit number. $N * M$ is

- a. a five digit number when $a = x = 1$
- b. a six digit number when $a = 3$ and $x = 3$
- c. a seven digit number when $a = 6$ and $x = 2$
- d. an eight digit number when $a = b = c = d = x = y = z = 9$

Ans.c

16. $N = (A7A)17$ is a perfect square number. Which of the following statement is FALSE?

- a. A is an even digit.
- b. A is divisible by 3
- c. When N is divided by 13 we get remainder 3.
- d. None of these

Ans. c

17. A mother has 3 sons. she purchase three shirts of the same colour but of different size . All the three shirts were kept in a box in a room which was dark. The three boys took one shirt each at random . What is the probability that none of the boys this own shirt?

- a. $\frac{1}{2}$
- b. $\frac{1}{3}$

Ans. b

18. Product of three consecutive numbers is 2730. calculate the sum of three numbers?

- a. 39 b. 42

Ans. b

19. If $a=1, b=2 \dots z=26$ what is $p+q+r$?

- a)52 b)26 c) 5 d) 35

Ans:- a

20. if $z=1, y=2 \dots a=26$ what is the sum?

- a)351 b)450 c)260 d)150

Ans:- a

21. All the sides of a 4inch cube is painted. If it is cut into 1 inch cubes, number of cubes that are not painted at all.

Ans .8

22. Find the average of first 40 natural numbers.

1. 40

2. 35

3. 30.6

4. 20.5

5. None of these

Ans. 4.

23. 1, 5, 14, 30, ?, 91

1. 45

2. 55

3. 60

4. 70

5. None of these

Ans. 2.

24. There is a shortage of tubelights, bulbs and fans in a village - Gurgaon. It is found that All houses do not have either tubelight or bulb or fan.Exactly 19% of houses do not have just one of these. 67% of houses do not have tubelights.83% of houses do not have bulbs.73% of houses do not have fans.

1. 42 %

2. 46 %

3. 50 %

4. 54 %

5. 57 %

Ans.1.

25. Working 8 hours a day If 9 engines consume 24 metric tonnes of coal,how much coal will be required for 8 engines, when each running 13 hours a day,given that 3 engines of the former type consume as much as 4 engines of latter type.

a. 22 metric tonnes.

b. 27 metric tonnes.

c. 26 metric tonnes.

d. 25 metric tonnes.

Ans. c

26: To 15 lts of water containing 20% alcohol, we add 5 lts of pure water. What is % alcohol.

1. 20%

2. 34%

3. 15%

4. 14%

Ans. 3.

27.Three years ago the population of a town was 1,60,000 . If it increased by 3%, 2.5% and 5% respectively in the last three years, calculate the present population of the town is :

1. 1,77,000

2. 1,77,366

3. 1,77,461

4. 1,77,596

Ans: 2.

28: A house wife saved Rs. 2.50 in buying an item on sale .If she spent Rs.25 for the item ,approximately how much percent she saved in the transaction ?

a. 8%

b. 9%

c. 10%

d.11%

Ans. b

29. A trader after allowing a discount of 11.11% still makes a gain of 14.28 % at how many percent above the cost price does he mark his goods?

1. 28.56%

2. 35%

3. 22.22%

4. None of these

Ans: 1

30. Superheroes Liza and Tamar leave the same camp and run in opposite directions. Tamar runs 2 mps & Liza runs 1 mile per second (mps) . How far apart are they in miles after 1 hour?

a. 10800 mile

b. 19008 mile

c. 12300 mile

d. 14000 mile

Ans. a

Section c: Data interpretation and reasoning

1) Doctor : Patient :: Politician : ?

A. Voter

B. Chair

C. Money

D. Public

Ans. A.

2) Ignorance : Education :: Disease : ?

A. Hospital

B. Doctor

C. Medicine

D. Nurse

Ans. C

3) Man : Biography :: Nation : ?

A. History

B. Geography

C. People

D. Leader

Ans. A

4) Guilt : Past :: Hope : ?

A. Present

B. Sorrow

C. Past

D. Future

Ans. D

5) Telephone : Cable : : Radio : ?

A. Microphone

B. Electricity

C. Wire

D. Wireless

Ans. D

6) elbow: arm : : knee : _____

A. walking

- B. leg
- C. finger
- D. nose

Ans. B

7) car: road :: train : _____

- A. track
- B. fast
- C. vehicle
- D. wheel

Ans. A.

8) grains : sand :: drops : _____

- A. rain
- B. surf
- C. snow
- D. flood

Ans. A.

9) wave: tide :: moment : _____

- A. time
- B. tardiness
- C. ocean
- D. clock

Ans. D.

10) wife: woman :: _____ : man

- A. father
- B. boy
- C. groom
- D. husband

Ans. D

11) truthfulness: court :: cleanliness : _____

- A. virtue
- B. bath
- C. restaurant
- D. pig

Ans. C.

12) egg: fish :: _____ : plant

- A. leaf
- B. seed
- C. root
- D. stem

Ans. B.

13) lion: animal :: flower : _____

- A. plant
- B. roots
- C. grass
- D. rose

Ans : A.

14) wave: crest :: _____ : peak

- A. water
- B. top
- C. moving

D. mountain

Ans.. D.

15) book : _____ :: comb : tooth

A. title

B. page

C. library

D. knowledge

Ans: B.

16) boy: child :: man : _____

A. father

B. uncle

C. adult

D. person

Ans : C.

17) grass: soil :: seaweed : _____

A. water

B. river

C. salty

D. fish

Ans : A.

18) Stone : Sculpture ::

A. Mural : Painting

B. opera : stage

C. canvas : easel

D. clay : pottery

Ans : D.

19) Crumb : Bread ::

A. Ounce : Unit

B. Splinter : Wood

C. Water : Bucket

D. twine : rope

Ans: B.

20) Cookbook : Recipes ::

- A. film : reviews
- B. manual : instructions
- C. magazine : subscriptions
- D. paperback : editions

Ans: B.

21) Based on the following statements, Draw the correct conclusion.

Members of the club can only be gentlemen. Many of the members of the club are officers. For dinner Some of the officers have been invited.

- A. All the members of the club have been invited for dinner
- B. Some of the officers are not gentlemen
- C. All gentlemen are members of the club
- D. Only gentlemen have been invited for dinner

Ans: C.

22) There have been given two statements, out of which both cannot be true but can be false. Which are these two statements?

- I. All machines make noise

II. Some machines are noisy

III. No machine makes noise

IV. Some machines are not noisy

A. I & II

B. III & IV

C. I & III

D. II & IV

Ans : C.

23) Circle indicates 'strong', square indicates 'tall' and triangle 'army officers'. The strong army officers who are not tall are shown

A. 4

B. 3

C. 5

D. 6

Ans : A.

24) A, B, C, D, E, F, G and H are eight poets, namely, in respect of whom questions are being asked in the exam. The last four are modern poets and the first four are ancient poets . In alternate years the question on ancient and modern poets is being asked . Those who like H also like G, those who like D and also C. The examiner who sets question is not likely to ask question on D because he has written an article on D. But he likes D. a question on F was asked last year. Considering these facts, on whom the question is most likely to be asked this year?

- A. B
- B. C

- C. D
- D. G

Ans : D.

25) In a family there are husband wife, two sons and two daughters. All the ladies were invited to a dinner. Both sons went out to play. Husband did not return from office. Who was at home?

- A. Only wife was at home
- B. All ladies were at home
- C. Only sons were at home
- D. No body was at home

Ans : D.

26) Artists are generally whimsical. Some of them are frustrated. Frustrated people are prone to be drug addicts. Based on this statement which of the following conclusions is true?

- A. All frustrated people are drug addicts**
- B. Some artists may be drug addicts**
- C. All drug addicts are artists**
- D. Frustrated people are whimsical**

Ans: B.

27) If A is the son of Q, Q and Y are sisters, Z is the mother of Y, P is the son of Z, then which of the following statements is correct ?

- A. P is the maternal uncle of A**
- B. P and Y are sisters**
- C. A and P are cousins**
- D. None of the above**

Ans.D

28) There are five books A, B, C, D and E placed on a table. If A is placed below E, C is placed above D, B is placed below A and D is placed above E, then which of the following books touches the surface of the table ?

- A. C**

B. B

C. A

D. E

Ans : B

29) Three ladies X, Y and Z marry three men A, B and C. X is married to A, Y is not married to an engineer, Z is not married to a doctor, C is not a doctor and A is a lawyer. Then which of the following statements is correct ?

A. Y is married to C who is an engineer

B. Z is married to C who is a doctor

C. X is married to a doctor

D. None of these

Ans. D

30) Directions : Each of the following questions contains two statements followed by two conclusions numbered I and II. You have to consider the two statements to be true, You have to decide which of the given conclusions definitely follows from the given statements.

Give answer ((a) if only I follows ; ((b)if only conclusion II follows ; ((c) if either I or II follows; ((d) if neither I nor II follows and ((e) if both I and II followStatement :

Some tables are glasses. All trees are tables.

Conclusions: I. Some trees are glasses

II. Some glasses are trees.

A. a

B. b

C. c

D. d

E. e

Ans. D

