

VERBAL REASONING

Four lettered pairs (A to D) follow a related pair of words given in the question. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters.

1. FINGER: GUITAR::

- A. beak: bird
- B. level: vertical
- C. snake: mice
- D. stick: drum

2. BOAT: OAR::

- A. book: page
- B. car: steering wheel
- C. sweet: sour
- D. teacher: pupil

3. SINGULAR: PLURAL::

- A. below: beneath
- B. haughty: vain
- C. least: most
- D. lift: soar

4. SUMMARY: PRECIS::

- A. ladle: pan
- B. monitor: screen
- C. order: obedience
- D. reverse: push

5. TEETH: BITE::

- A. knife: cut
- B. tree: green
- C. drop: ocean
- D. language: alphabet

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London in 11th position. But the findings show that while there are 12 times as many news articles with mentions of women's football per month, relative to the number of people who attend matches, men's football receives three times as many headlines, relative to the number of fans who attend. 'It is understandable in a way,' said England International and Arsenal Ladies midfielder Steph Houghton. 'It's difficult because the men's game is so big and attracts so much money and sponsorship and so it's always going to take priority. 'But with digital media we can really forge ahead. We don't need to struggle to get a few lines in a newspaper, we can do it for ourselves; fans can interact with players and find out about fixtures and get really involved on match days – even if they are not at the game themselves.' Houghton, 23, has been selected as the FA WSL digital ambassador for Arsenal Ladies this season. Each club in the league will pick one player who will wear their Twitter address.

7. Women's football felt underrated and overlooked because mainstream press _____.

- A. gave them a lot of coverage
- B. gave them little coverage
- C. granted them awards and prizes
- D. printed news articles about them

8. Women football in the UK ranks third as they have _____ popularity.

- A. abandoned
- B. declined
- C. obtained
- D. sold

9. Fans of the game have started to follow them on social media which has overcome their past lack of _____.

- A. acknowledgement
- B. performance
- C. respect
- D. seriousness



10. Men have increased level of interaction with women
number played as to _____ if compared to men's
number.

- A. five
- B. seven
- C. thirteen
- D. seventeen

11. In order to display their Twitter address, _____
participating in the league will nominate a player.

- A. each club
- B. each coach
- C. every fan
- D. every media houses

12. She has been _____ for the best student of the
year award by the committee.

- A. nominated
- B. nominates
- C. nominating
- D. nomination

Complete the sentences by choosing the best
option, from the given lettered choices (A to D)
below each.

13. His friends were unaware of his _____ intentions.

- A. cruelty
- B. evil
- C. secrecy
- D. obviously

14. He said that he would _____ there before the game
ended.

- A. reaches
- B. reach
- C. reached
- D. reaching



53. Two angles whose sum is 90° are called _____ angles.

- A. complementary
- B. right
- C. obtuse
- D. supplementary

54. What is the area of a pavement 2-meter wide which is drawn inside a rectangular park of dimensions 18 by 20?

- A. 35 m^2
- B. 37 m^2
- C. 128 m^2
- D. 160 m^2

55. The difference of face value from place value of 8 in 7956 is _____.

- A. -495
- B. -45
- C. 0
- D. 45

56. The cost of 6 bats and 3 balls is Rs. 4500 and cost of 3 bats and 6 balls is Rs. 3600. The cost of one bat and a ball is _____.

- A. Rs. 300
- B. Rs. 600
- C. Rs. 750
- D. Rs. 900

57. If $f(x) = 3x^4 - 2x^2 + 7$ then value of $f(\sqrt{2})$ is _____.

- A. 2
- B. 3
- C. $\sqrt{15}$
- D. 15



48. The number of terms in the expression $x^3y^2 - xy$ is _____.

- A. 3
- B. 4
- C. 5
- D. 8

49. Car A is moving with a speed of 50 km/h towards which is moving away from car A with a speed of 20 km/h. What is the relative speed of two cars?

- A. 40 kms
- B. 70 kms
- C. 90 kms
- D. 140 kms

50. Convert the ratio $21/30$ into percentage.

- A. 21%
- B. 42%
- C. 70%
- D. 85%

51. The age of mother is 3 times the age of her daughter. Six years ago, the age of mother was 5 times the age of her daughter. The age of mother after two years will be _____.

- A. 32 years
- B. 36 years
- C. 38 years
- D. 40 years

52. A boy travels 210 kms on a train in 3 hours. Then he travels 30 kms in one hour by bus. The average speed of boy for whole journey is _____.

- A. 50 km/h
- B. 55 km/h
- C. 60 km/h
- D. 70 km/h



55. Two angles whose sum is 90° are called _____.

- A. complementary
- B. right
- C. obtuse
- D. supplementary

56. What is the area of a pavement 2-meter wide which is _____ inside a rectangular park of dimensions 16 by 12?

- A. 35 m^2
- B. 37 m^2
- C. 328 m^2
- D. 360 m^2

57. The difference of face value from place value of 5 in 72550 is _____.

- A. -495
- B. -45
- C. 0
- D. 45

58. The cost of 6 bats and 3 balls is Rs. 4500 and cost of 3 bats and 6 balls is Rs. 3600. The cost of one bat and a ball is _____.

- A. Rs. 300
- B. Rs. 600
- C. Rs. 750
- D. Rs. 900

59. If $f(x) = 3x^4 - 2x^2 + 7$ then value of $f(\sqrt{2})$ is _____.

- A. 2
- B. 3
- C. $\sqrt{15}$
- D. 15

32. The ratio between the length of square base of two pyramids is 3:7. What is the ratio between their volumes if the two pyramids are of equal height?

- A. 3:7
- B. 9:49
- C. 27:343
- D. 81:1728

33. $3 + [(50 - 10 \times 2) + 5(15 - 13)] + 5 = \underline{\hspace{2cm}}$

- A. 3
- B. 5
- C. 10
- D. 11

34. The cost price of 8 suits is Rs. 13400. What is the cost price of such 5 suits?

- A. Rs. 8000
- B. Rs. 8275
- C. Rs. 8375
- D. Rs. 8425

35. The sale price of an article is Rs. 3597 with a profit of 9%. The cost price of article is $\underline{\hspace{2cm}}$.

- A. Rs. 310.50
- B. Rs. 3197.33
- C. Rs. 3250
- D. Rs. 3300

36. Pipe A can fill a tank in 45 minutes. If both pipes A and B are opened the tank is full in 15 minutes. In how much time tank will be full if pipe B is opened?

- A. 20 minutes
- B. 22.5 minutes
- C. 30 minutes
- D. 35.5 minutes



42. What is the angle between the hands of clock at 10:00?

- A. 85°
- B. 165°
- C. 125°
- D. 135°

43. The arithmetic mean of 2, 4, 9, 9 is _____.

- A. 4
- B. 5
- C. 7
- D. 10

44. 80% of which number is 45?

- A. 8.1
- B. 55.50
- C. 56
- D. 56.25

45. The total surface area of a topless box having dimensions' length = 3, width = 6 and height = 10 is _____ Sq units.

- A. 156
- B. 186
- C. 198
- D. 216

46. Which of the following is a rational number?

- A. π
- B. 1.252729...
- C. 7.323232...
- D. $\sqrt{27}$

47. The sum of, sum and product of roots of equation

$$3x^2 - 7x + 15 = 0 \text{ is } \underline{\hspace{2cm}}$$

- A. $8/3$
- B. 5
- C. $22/3$
- D. $35/3$



QUANTITATIVE REASONING

27. $\log_2 2 \times \log_3 5 \times \log_5 3 = \underline{\hspace{2cm}}$.

- A. 0
- B. 1
- C. 2
- D. 3

28. The number of 5-digit numbers, that can be formed from the digits 4, 3, 5, 7, 9 is $\underline{\hspace{2cm}}$.

- A. 60
- B. 120
- C. 140
- D. 180

29. The arithmetic mean of 15 numbers is 10. When two more values are added to the data the new arithmetic mean becomes 10. The value of two numbers is $\underline{\hspace{2cm}}$ if one number is 4 more than other.

- A. 7, 11
- B. 4, 16
- C. 8, 12
- D. 9, 13

30. Which of the following is a binary operation?

- A. 4th root
- B. Cube
- C. Intersection
- D. Square

31. The value of x in the equation $\frac{x}{5} - \frac{3}{2} = \frac{3x}{8} + \frac{3}{5}$ is $\underline{\hspace{2cm}}$.

- A. -3
- B. -3/2
- C. 3/2
- D. 3

15. I think the material of the red shirt is different from the blue shirt.

- A. before
- B. for
- C. form
- D. from

16. She will not be able to secure victory _____ she goes through the required painstaking hard work.

- A. because
- B. until
- C. after
- D. habitually

17. He was _____ the moon when he heard the news of his position in the exams.

- A. over
- B. under
- C. upon
- D. inside

18. They were used to _____ to news on radio when they were students.

- A. listen
- B. listens
- C. listening
- D. listened

19. It was an _____ from his confusion that he was involved in the crime.

- A. evidence
- B. evidently
- C. incident
- D. evident

6. OCEAN: WEEDS!!

- A. kids: parents
- B. movie: actors
- C. loyal: state
- D. forest: bushes

Questions 7-12

After years of feeling underrated and overlooked by mainstream football pundits and press, women's football is coming into its own this season thanks to social media. New research shows that the women's version of the game is now the third biggest team sport in the UK in terms of participation, behind only men's football and cricket. Its previous lack of recognition is being overcome by fans turning to social networking to follow the sport. The second ever season of the Football Association's Women's Super League (WSL) kicks off on Sunday, and eight of England's top female footballers, one from each of the top clubs, will take the unprecedented step of wearing their names on their kit. The new semi-professional league, the top A tier of women's football, was launched by the FA last year as a platform to drive forward the women's game and the association claims that it will be spending £3m on promotion in the first three years of the league. Since the WSL launched, attendances have increased by more than 600%, viewing figures of live broadcast matches, at 450 000, are on a par with those of the men's Scottish Premier League, and the social media channels now attract more than 80 000 followers. It has transformed the player-fan relationship by making it a fully interactive league. Research commissioned for the FA by Sport England Active People ahead of the 2012 season shows that the low profile of women's football is what is driving fans to Twitter and Facebook for news. Fans are up to seven times as interactive as those of the men's game. The FIFA Women's World Cup was the most tweeted-about event in the world in July 2011 with 7196 tweets per second at its peak. It remains seventh in the list of the most tweets per second, above the UEFA Champions



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2

PHYSICS

The combined effect of resistance and _____ in a circuit is known as impedance and is denoted by Z.

- A. current
- B. reactance
- C. thermal heat
- D. voltage

Which one of the following effects is being used for tracking a satellite?

- A. Compton's effect
- B. Dopplers effect
- C. Green house effects
- D. Photoelectric effect

.. Geothermal energy is due to _____.

- A. burning of fossil fuels on surface of earth
- B. earth's natural heat
- C. sun rises everyday
- D. sun's pull-on earth

2. Conversation of alternating current into direct current is known as _____.

- A. conversion
- B. impedance
- C. rectification
- D. transformation

63. A body is said to be in uniform velocity, if it travels _____ distance in _____ intervals of time in _____ direction.

- A. equal ... equal ... different
- B. equal ... equal ... same
- C. equal ... unequal ... different
- D. equal ... unequal ... same

