

IBPS PO Mock Test 3

Q 1. Find the number of zeros at the end of 10000 !

- A. 1500 zeros
- B. 1850 zeros
- C. 2555 zeros
- D. 2499 zeros

Answer: D

Solution 1:

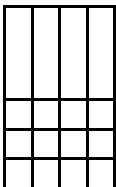
The number of zeros at the end of $n!$ is given by the following logic

$$n! = [n / 5] + [n / 5^2] + [n / 5^3] + \dots + [n / 5^x]$$

[] shows greatest integer function where $5^x \leq n$

$$\begin{aligned} \text{Hence, } [10000 / 5] + [10000 / 5^2] + [10000 / 5^3] + [10000 / 5^4] + [10000 / 5^5] \\ = 2000 + 400 + 80 + 16 + 3 \\ = 2499 \text{ Zeros} \end{aligned}$$

Q 2. Find the number of squares in the following figure



- A. 36
- B. 24
- C. 18
- D. 30

Answer: D

Solution 2:

Logic: Number of squares in a square of side $n \times n$ side = $1^2 + 2^2 + 3^2 + \dots + n^2$

Hence, in the above question

$$1^2 + 2^2 + 3^2 + 4^2 = 1 + 4 + 9 + 16 = 30 \text{ squares}$$

Q 3. If $a:b = 3:4$ and $b:c = 7:5$, $a:b:c$ is

- A. 3:5:9
- B. 21:28:20
- C. 15:16:18
- D. 5:9:10

Solution 3:

Value is $a:b:c = (3 \times 7) : (4 \times 7) : (4 \times 5)$
 $= 21:28:20$

Q 4. A bag contains balls marked from 1 to 40. One ball is drawn at random from the bag. Find the probability that the number of the ball drawn from the bag is a multiple of 5 or 9

- A. $\frac{1}{3}$
- B. $\frac{2}{3}$
- C. $\frac{1}{4}$
- D. $\frac{1}{5}$

Answer: A

Solution 4

Number of balls which are multiples of 5 = 5, 10, 15, 20, 25, 30

Hence there are 6 balls which are multiples of 5.

Number of balls which are multiples of 9 = 9, 18, 27, 36

Hence there are 4 balls which are multiples of 9.

Therefore the probability of withdrawing balls which are either multiple of 5 or 9 is

$= (\text{Number of ways in which withdrawn ball can be a multiple of 5 or 9}) / \text{Total number of balls}$
 $= (6+4)/30 = 10/30 = \frac{1}{3}$

Q 5. In how many different ways letters of the word MALAYALAM can be arranged?

- A. 3580
- B. 3780
- C. 7430
- D. 2850

Answer: B

Solution 5:

There are 9 letters, hence it can be arranged in 9! Ways.

However, A is repeated 4 times hence it will be represented in the denominator as 4!

L is repeated twice, hence it will be represented as 2! In the denominator.

M is repeated twice hence, it will be represented as 2! In the denominator

Hence the total number of ways in which the letters of the word ALLAHABAD can be arranged:

$= 9! / 4! * 2! * 2!$

$= 3780 \text{ ways}$

Q 6. The radius of a circular field is equal to the side of a square field whose perimeter is 560 metres. What is the area of the circular field?

- A. 60000
- B. 62700
- C. 61600
- D. 70000

Answer: C

Solution 6:

Let 'a' be the side of the square. The perimeter of the square is given by the formula '4a'

Hence $4a = 560$, therefore $a = 140$

Area of the circle is given by the formula $= \pi r^2$

As per the question, $r = a$

$\pi = 22/7$ or 3.14. For easier calculation let us choose, $22/7$

Hence, the Area of circle $= (22/7) * 140 * 140$

$= 22 * 20 * 140$

Hence Area of circle $= 61,600$

Q 7. The ratio of length and breadth of a rectangular plot is 5:3 respectively. If the breadth of the plot is 40 metre, less than the length, what is the perimeter of the rectangular field?

- A. 320
- B. 420
- C. 360
- D. 500

Answer: A

Solution 7:

$L/b = 4/3$

$l = b + 40$

$(b+40)/b = 5/3$

$3b + 120 = 5b$

Hence $2b = 120$ metre

$b = 60$ metre

$l = 100$ metre

Perimeter $= 2(l+b)$

$= 2(100+60)$

$= 2(160)$

$= 320$ metre

Q 8. What is the approximate value?

$8520/640 * 5.5$

- A. 71
- B. 73
- C. 75
- D. 80

Answer: B

Solution 8

$= 8520/640$

$= 13.31$

$$13.31 * 5.5$$
$$=73.205$$

Q 9. What is 160% of 2450?

- A. 3920
- B. 4380
- C. 1270
- D. 3458

Answer: A

Solution 9:

$$(160/100) * 2450 = 3920$$

Q 10. Which of the following five are alike in a certain way and so form a group. Which is the one that does not belong to the group

- A. Frigate
- B. Aircraft Carrier
- C. Corvettes
- D. Destroyer
- E. Submarine

Answer: E

Solution 10:

Except for submarines, all are surface warships.

Q 11. If '*' means added to, '/' means multiplied by, '+' means subtracted from, and '-' means divided by then $35+25-5*5/5$

- A. 55
- B. 60
- C. 50
- D. 65

Answer: A

Solution 11:

As per the question, the pattern will be $35-25/5+5*5$

$$\text{Step 1: } 25/5 = 5$$

$$\text{Step 2: } 5 * 5 = 25$$

$$\text{Hence, } 35 - 5 + 25 = 55$$

Q 12. How many such pairs of letters are there in the word CALM, each of which has as many letters between them as in the English alphabet?

- A. 1
- B. 2

- C. 3
- D. None

Answer: A

Solution 12:

L and M, the difference is just 1 similar to the order of English alphabets.

Direction (13-14): There are six statements followed by four options in the sets of combinations of three. Pick the set in which the third statement logically follows from the first two.

Q 13.

1. All apples are Oranges.
2. Some sweets are Oranges.
3. Some apples are sour.
4. Some apples are Oranges.
5. All sweets are sour.
6. Apples are sweets.

- A. 413
- B. 462
- C. 231
- D. 653

Answer B

Q 14.

1. Bags are kept in shelf
2. Box are kept in cupboard
3. Bags are like Box
4. All cupboards are box
5. Some bags are not box
6. Some shelf are not Box

- A. 165
- B. 431
- C. 125
- D. 624

Answer A

Q 15. In a certain code COMPLETE is written as EQORNGVG. How is REASON written in that code

- A. TGCUQP
- B. GCUQPT
- C. UGCUQT
- D. CQTPGP

Answer: A

Every letter + 2nd letter = TGPUQP

Q 16. 3 of the following 4 forms a group. Find the odd one out

- A. Aegean
- B. Caspian
- C. Black
- D. Pacific

Answer: A

Solution 16: All of them are seas. Pacific is the ocean.

Directions (17-18): There are two blanks in the sentence given below. From the options given, choose the most appropriate to complete the sentence.

Q 17. Desertification, the creation of desert-like conditions where none had existed before, is the result of the _____ of weather and climate or the mismanagement of the land or, in most cases, some _____ of both.

- A. caprice, notion
- B. predictability, olio
- C. vagaries, combination
- D. domination, synthesis

Answer C

Q 18. Unemployment does not have the same _____ consequences today as it did in the 1930's when most of the unemployed were primary breadwinners, when income and earnings were usually much closer to the margin of subsistence, and when there were no _____ social programs for those failing in the labour market.

- A. calamitous, offset
- B. ominous, invalidated
- C. cornucopian, balancing
- D. dire, countervailing

Answer D

(Directions 19-20): The five sentences numbered 1-5 need to be arranged in a logical order to form a meaningful paragraph. Read carefully and answer accordingly..

Q 19.

1. Ironically, Manipur has many activist groups led by women.
2. It is demanding that any party it backs should establish a working group on violence against women and children in the assembly.
3. Conflict Widows' Forum is a group made up of women who have lost their husbands to civil violence in the state.
4. True empowerment will only happen when women enter the assembly in good numbers.

5. In the run-up to the January 28 polls, for instance, members of Women Action for Development (WAD) are organising camps in all constituencies.

- A. 42351
- B. 32145
- C. 54132
- D. 32514

Answer C

Q 20.

- 1. I expected him to suggest that all the online petitioners have failed to grasp the nuance and importance of the rating system.
- 2. Dodd said that he believes that some sort of compromise on the content of the film will be reached so that young people can see the film without seeking their parent's permission.
- 3. This made me think again about my own cynicism about Web activism.
- 4. I called Christopher Dodd, the former senator who now runs the motion picture association.
- 5. Sure, hash tags come and go but they probably make the world, the one beyond the keyboard, a better place.

- A. 41235
- B. 43251
- C. 14352
- D. 43521

Answer A

(Direction 21-22): There is a highlighted word given below used in four sentences in different ways. You need to choose the sentence in which the usage of word is inappropriate.

Q 21. JOB

- A. That cup of tea was just the job.
- B. He got six months for that last job he did.
- C. There was a job waiting for him that he was not looking forward to.
- D. Sorting these papers out is going to be a tall job.

Answer D

Q 22. PIN

- A. I need the up-to-date sales figures but I can never pin him up at the office.
- B. For two pins I'd tell her what I really think of her.
- C. He's not as quick on his pins as he used to be.
- D. The ball stopped five feet short of the pin.

Answer A

Direction: In the question, a related pair of words followed by four pairs of words is given. You have to choose the pair that best expresses a relationship similar to the one expressed in the question pair.

Q 23. Doggerel: Poet

- A. Prediction : Astrologer
- B. Wine : Vintner
- C. Pulp fiction : Novelist
- D. Symphony : Composer

Answer C

Q 24. Premise: Conclusion

- A. Knowledge : Ideas
- B. Hypothesis : Theory
- C. Brand : Marketing
- D. Assumption : Inference

Answer B

Q 25. What is the antonym of PROCRASTINATION?

- a. Postpone
- b. Dithering
- c. Vacillation
- d. Disciplined

Answer: D