

IBPS PO Mock Test 3

Q 1. The circumference of two circles is 176 metres and 440 metres respectively. What is the difference between the area of the larger and smaller circle?

- A. 2464 sq. cm
- B. 12936 sq. cm
- C. 12435 sq. cm
- D. 11435 sq. cm
- E. None of the above

Answer: B

Solution 1: Circumference of circle 1 = $2\pi r = 2 \times 22/7 \times r = 176$ cm

Radius of circle 1 = $(176 \times 7) / (22 \times 2) = 28$ cm

Circumference of circle 2 = $2\pi r = 2 \times 22/7 \times r = 440$ cm

Radius of circle 2 = $(440 \times 7) / (22 \times 2) = 70$ cm

Area of circle 1 = $\pi r^2 = 22/7 \times 28 \times 28 = 2464$ cm²

Area of circle 2 = $\pi r^2 = 22/7 \times 70 \times 70 = 15400$ cm²

Difference between area of larger and smaller circle = $15400 - 2464 = 12936$ cm²

Q 2: Two married couples along with three children live in a house. The average age of the two women in the house is 34 years and that of the two men is 65 years. The average age of the three children is 8 years. What will be the average age of all the people living in that house (approx.)?

- a. 33
- b. 35
- c. 31
- d. 34
- e. 32

Answer: E

Solution 2: $(34 \times 2 + 65 \times 2 + 8 \times 3) / (2 + 2 + 3) = (68 + 130 + 24) / 7 = 222/7 = 31.71$

Q 3: Amrita invested an amount of ₹60,000 to start a grocery shop. After six months, Arvind joined her with an amount of ₹90,000. After one year from the inauguration of the store, Amrita put in an additional amount of ₹20,000. At the end of three years, they earned a profit of ₹71,20,000. What is Amrita's share in the profit?

- A. ₹6542000
- B. ₹4234000
- C. ₹3520000
- D. Cannot be determined
- E. None of the above

Answer: C

Solution 3: Amrita's investment for 3 years = ₹ $(60000 \times 12 + 80000 \times 24) = ₹26,40,000$

Arvind's investment for 2 years 6 months = ₹ $(90000 \times 6 + 90000 \times 24) = ₹27,00,000$

Amrita's share in profit = $264/534 \times 7120000 = ₹35,20,000$

Q 4: A bike covers the first 38 km of its journey in 45 minutes and covers the remaining 34 km in 45 minutes.

What is the average speed of the bike in km/hr?

- A. 48 km/hr
- B. 32 km/hr
- C. 44 km/hr
- D. 45 km/hr
- E. None of the above

Answer: A

Solution 4: Average speed of bike = total distance / total time taken

$$\begin{aligned}\text{Average speed} &= (38+34) / (45+45) \\ &= 72 / 90 \text{ km/min} \\ &= (72/90) \times 60 \text{ km/hr} \\ &= 48 \text{ km/hr}\end{aligned}$$

Directions (5-7): Read the data given in the table and answer the following questions:

The table gives details about the number of students studying in different faculties in five different cities:

Cities	Number of students			
	Arts	Science	Commerce	Medical
Mumbai	125	100	122	54
Chennai	110	95	44	99
Delhi	67	88	92	115
Lucknow	112	77	84	91
Kolkata	56	32	117	82

Q 5: What are the total number of students studying in the Arts faculty in all five cities?

- A. 470
- B. 420
- C. 471
- D. 477
- E. 550

Answer: A

Solution 5: $125+110+67+112+56 = 470$ students

Q 6: What is the average number of students studying in Lucknow?

- A. 84
- B. 90
- C. 88
- D. 91
- E. None of the above

Answer: D

Solution 6: $(112+77+84+91) / 4 = 91$

Q 7: What is the ratio of the number of students in the Medical faculty to the number of students in Commerce faculty?

- A. 49:51
- B. 51:49
- C. 442:459
- D. 459:442
- E. None of the above

Answer: A

Solution 7: Total students in medical faculty = $54+99+115+91+82 = 441$

Total students in commerce faculty = $122+44+92+84+117 = 459$

Ratio = $441:459 = 49:51$

Directions (8-9): In the given number series find the wrong number among the given options:

Q 8: 451 414 389 373 364

- A. 414
- B. 389
- C. 451
- D. 373
- E. 364

Answer: C

Solution 8: $450 - 6^2 = 414$

$$414 - 5^2 = 389$$

$$389 - 4^2 = 373$$

$$373 - 3^2 = 364$$

Q 9: 2 5 13 27 58

- A. 5
- B. 13
- C. 27
- D. 2
- E. 58

Answer: B

Solution 9: $2 \times 2 + 1 = 5$

$$5 \times 2 + 2 = 12$$

$$12 \times 2 + 3 = 27$$

$$27 \times 2 + 4 = 58$$

Directions (10-12): Read the information given below carefully and answer the following questions:

Seven persons namely Pankhuri, Qasim, Raj, Shruti, Tripti, Urvashi and Vinay like seven different colours namely aqua, red, blue, orange, yellow, green and pink. Each of them works in either of the three companies: Samsung, Wipro and ITC with at least two of them in a company.

Raj works in Wipro with the one who likes blue. Urvashi does not work with Raj. Pankhuri works in ITC with only the one who likes yellow. Urvashi does not like aqua. Tripti does not like pink. Tripti works in Samsung with the one who likes aqua. The one who like pink works with the one who likes red but not with Raj. Shruti works with the one who likes green. Shruti does not like blue. Qasim does not like aqua. Vinay does not work in Wipro.

Q 10. Who are the employees who work in Wipro?

- A. Pankhuri, Urvashi, Raj
- B. Qasim, Vinay
- C. Pankhuri, Qasim
- D. Raj, Tripti, Vinay
- E. Raj, Qasim

Answer: E

Q 11. Who all work in the same company as Shruti?

- A. Only Pankhuri
- B. Pankhuri, Vinay
- C. Raj, Pankhuri,
- D. Only Raj
- E. None of the above

Answer: A

Q 12. Which among the given combinations is *incorrect*?

- A. Raj- Wipro- Orange
- B. Pankhuri- ITC- Green
- C. Vinay- ITC- Aqua
- D. Vinay- Samsung- Aqua
- E. Qasim- Wipro- Blue

Answer: C

Solution (10-12) :

Pankhuri	ITC	green
Qasim	Wipro	blue
Raj	Wipro	Orange
Shruti	ITC	yellow
Tripti	Samsung	red
Urvashi	Samsung	pink
Vinay	Samsung	aqua

Directions (13-14): Study the information carefully and answer the given questions:

D Q W 1 D & E 9 M F ^ B A I 0 + Z U O C # 3 G & 4 H @ X ? T

Q 13: What is the sixth element to the left of the eleventh element from right?

- A. I
- B. #
- C. +
- D. M
- E. G

Answer: A

Solution 13: Eleventh element from right is "C" and sixth element to the left of "C" is "I"

Q 14: How many vowels in the given arrangement are immediately preceded by a consonant and followed by a number?

- A. 2
- B. 1
- C. 3
- D. None
- E. 4

Answer: D

Solution 14: E is preceded by & and followed by 9

A is preceded by B and followed by I

I is preceded by A and followed by 0

O is preceded by U and followed by C

U is preceded by Z and followed by O

Directions (15-16): Read the given information carefully and answer the following questions:

In a certain code language ' h b i' means 'thou how art'

'i e h' means 'art good thou'

'a e h g c' means 'thy good bad and thou'

Q 15: What will be the code for 'h e b' ?

- A. Thou good how
- B. Bad good thou
- C. Thy how bad
- D. Art thou and
- E. None of the above

Answer: A

Q 16: What will be the code for 'bad'?

- A. c
- B. Either a or c
- C. g
- D. Cannot be determined
- E. None of the above

Answer: D

Solution (15-16): "how" is coded as "b"

"Art" is coded as "i"

"Thou" is coded as "h"

"Good" is coded as "e"

Directions (17-18): In each question given below, three statements are given followed by two conclusions I and II. Whichever conclusion follows, based on the given statements, mark that as your answer.

Q 17: Statements: Some pens are pencils.

All pencils are marker.

No marker is eraser.

Conclusion I: All pencils being pens is a possibility

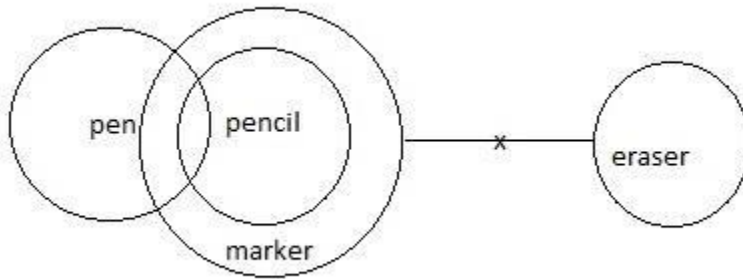
Conclusion II: No eraser is pen

- A. Only conclusion I follows
- B. Only conclusion II follows

- C. Both conclusion I and II follows
- D. Neither I nor II follows
- E. Either I or II follows

Answer: D

Solution 17:



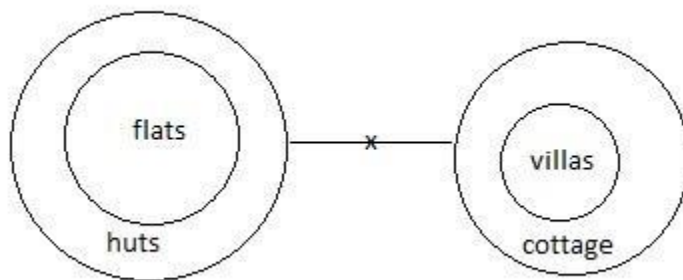
Q 18. Statements: All flats are huts
No hut is a villa
All villas are cottages

Conclusion I: No cottage is a flat
Conclusion II: Some cottages are flat

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Neither I nor II follows
- D. Either I or II follows
- E. Both I and II follows

Answer: C

Solution 18:



Directions (19-20)

Each of the following questions has a pair of CAPITALIZED words followed by four options in pairs. Choose the pair of words which best states the relationship similar to that stated in the capitalized pair.

Q.19. FLEET : NAVY

1. seats : auditorium
2. chapter : book
3. drop : ocean
4. letter : word

- A. Only 1
- B. Only 2
- C. Only 3
- D. Only 4
- E. None of the above

Answer B

Q.20. FORESIGHT : FARSIGHTEDNESS

1. further : farther
2. long : lengthy
3. thinker : visionary
4. short : dwarf

- A. Only 1
- B. Only 2
- C. Only 3
- D. Only 2 and 4
- E. Both 1 and 3

Answer C

Directions (21-22)

Choose the most suitable substitute for the underlined expression from the given options in each of the following.

Q.21. The thrilling narrative caused the hair on the skin to stand erect.

1. trepidation
2. horror
3. trepidity
4. terror
5. Dismay

- A. Only 3
- B. Only 1
- C. Only 5
- D. Only 2
- E. Only 4

Answer D

Q.22. The marriage of the princess with the commoner caused a furore among the royalty.

1. Union
2. Fugue
3. Misalliance
4. Liaison
5. Elopement

- A. Only 1
- B. Only 2
- C. Only 3
- D. Only 4
- E. Both 2 and 3

Answer C

Directions (23-24): Choose the grammatically correct sentence from among the four options given for each question.

Q.23.

- 1. There's Mr. Tom, whom they say is the finest singer in the country.
- 2. There's Mr. Tom, who they say is the finest singer in the country.
- 3. There is Mr. Tom, whom they say is the finest singer in the country.
- 4. There is Mr. Tom who, they say is the finest singer in the country.

- A. Only 1
- B. Both 1 and 4
- C. Only 2
- D. Both 2 and 3
- E. None of the above

Answer C

Q.24.

- 1. Today we adore, what tomorrow we abhor; today we pursue, what tomorrow we refuse, today we wish, what tomorrow we dread.
- 2. Today, we adore what tomorrow we abhor, today, we pursue what tomorrow we refuse, today, we wish what tomorrow we dread.
- 3. Today we adore what tomorrow we abhor, today we pursue what tomorrow we refuse, today we wish what tomorrow we dread.
- 4. Today we adore what tomorrow we abhor; today we pursue what tomorrow we refuse; today we wish what tomorrow we dread.

- A. Only 2
- B. Only 4
- C. Both 3 and 4
- D. Only 3
- E. Both 1 and 4

Answer B

Q 25. Question given below contains six statements followed by five sets of combinations of three.

Choose the most logically related set of statements.

- 1. Some young people are happy.
- 2. No young people are happy,
- 3. All young people are happy.
- 4. No young people achieve great ends
- 5. All young people achieve great ends
- 6. All those who achieve great ends are happy

- A. 235

- B. 145
- C. 256
- D. 356
- E. 245

Answer D

