

# IBPS RRB GROUP B MAINS

## MODEL PAPER 1



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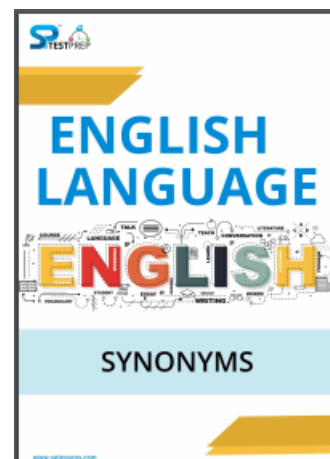
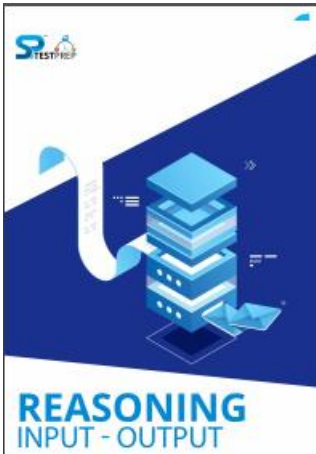


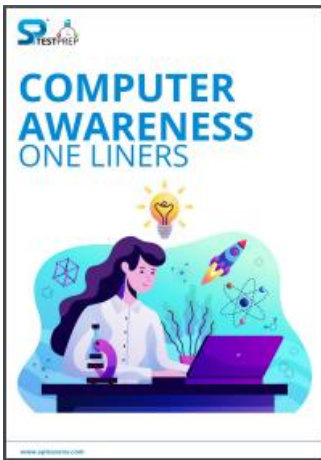
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### 1. Statements:

All sketch are rubber.

All bench is box.

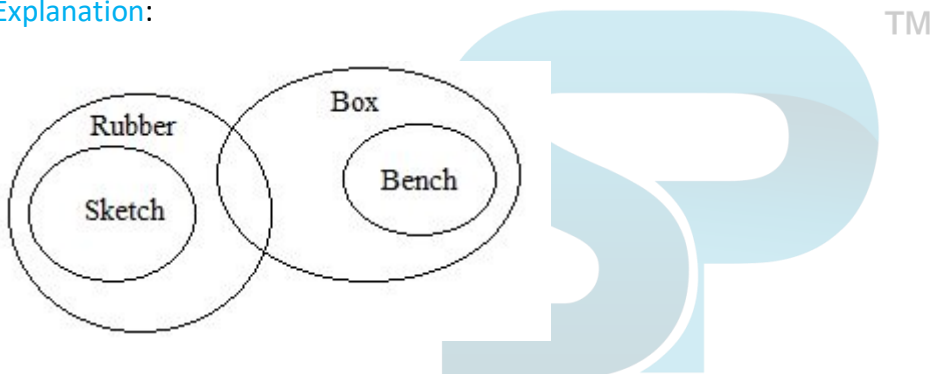
Some rubber are box.

### Conclusions:

- I. Some bench are sketch.
- II. No bench are sketch.
- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Neither I or II follows

Answer: C

Explanation:



Here, some bench are sketch or No bench are sketch. So either conclusion I or conclusion II follows.

In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

### 2. Statements:

All pens are pencils

No pencil is an eraser

### Conclusions:

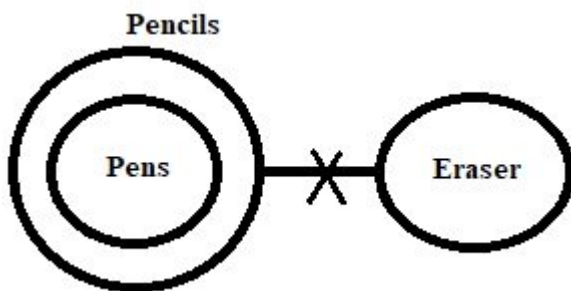
- I. No eraser is a pen
- II. No pen is an eraser
- A. I only follows
- B. II only follows



- C. Either I or II follows
- D. Both I and II follows

Answer: D

Explanation: Here, both I and II conclusions follows.



### 3. Statement:

Some circles are parabola.

All parabolas are ellipse.

No semicircle is circle.

All circles are ellipse.

No hyperbola is parabola.



### Conclusion:

- I. Some circles which are parabola are also ellipse is a possibility.
  - II. Some parabolas are not semicircle.
  - III. Some hyperbolas are circle is a possibility.
  - IV. All semicircles are ellipse are possibility.
- A. Only I follows
  - B. Only I, II and IV follow
  - C. Only II, III and IV follow
  - D. Only I and IV follow

Answer: D

Explanation:

I. Some circles which are parabola are also ellipse is true but the term possibility made the sentence negative so it is false.

II. Some parabolas which are connected with circle are not semicircle so it is true.

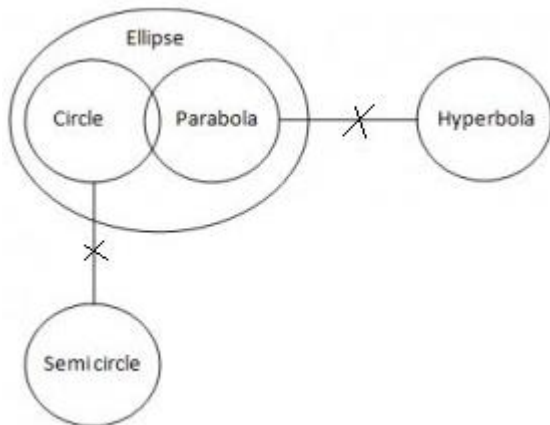




III. Some hyperbolas are circle is a possibility => it is possible => true.

IV. All semicircles are ellipse are possibility => it is possible => true.

Hence, II, III and IV follows.



#### 4. What does GUI stand for?

- A. Graphical User Instruction
- B. Ground User Interface
- C. General User Instruction
- D. Graphical User Interface

Answer: D

**Explanation:** GUI stands for a graphical user interface. Graphical user interface basically provides a set of graphical elements on the screen to the users. Commonly used for point-and-draw devices.

#### 5. Which of the following is not a point-and-draw device?

- A. Keypad
- B. Trackball
- C. Touch screen
- D. Mouse

Answer: A

**Explanation:** All except the keypad are point-and-draw devices. They are used to rapidly point to and select a graphic icon or menu item from multiple options displayed on the GUI of a screen.

#### 6. A device used for video games, flight simulators, training simulators and for controlling industrial robots.

- A. Mouse
- B. Light pen



- C. Joystick
- D. Keyboard

Answer: C

**Explanation:** Joystick is the device used for the same. It is a point-and-draw device. It has a click button, a stick, a ball, a socket as well as a light indicator.

**7. The unattended interactive information systems such as automatic teller machine or ATM is called as \_\_\_\_\_**

- A. Kiosks
- B. Sioks
- C. Cianto
- D. Kiaks

Answer: A

**Explanation:** The term information kiosks are used for the same. Touch screens are used the most preferred human-computer interface used in information kiosks. TM

**8. After arranging all the digits in increasing order (within the number) what is the sum of third digit of the highest number and first digit of the lowest number so formed?**

- A. 12
- B. 8
- C. 10
- D. 9

Answer: C

**Explanation:**

Series given: 785 243 634 397 572

New series: 578 234 346 379 257

The lowest number is 234, whose first digit is 2.

The highest number is 578, whose third digit is 8.

Required sum = 10.

**9. If 1 is added to each even digit and 1 is subtracted from each odd digit and then how many numbers so formed will be fully divisible by 2?**

- A. 1
- B. 2





- C. 3
- D. 4

Answer: C

Explanation:

Series given: 785 243 634 397 572

New series: 694 352 725 286 463

Clearly only 3 numbers are fully divisible by 2.

**10. Which of the following numbers will be placed exactly in the middle of the series when all the numbers are changed to product of their digits and then arranged in ascending order from left to right?**

- A. 785
- B. 243
- C. 634
- D. 397

Answer: C

Explanation:

Series given: 785 243 634 397 572

Changed series: 280 24 72 189 70

New series: 24 70 72 189 280



Clearly 72 is written exactly in the middle of the series, which represents 634.

What will be the resultant when third digit of third highest number is subtracted from the first digit of second highest number?

- A. 4
- B. 1
- C. 3
- D. 6

Answer: A

Explanation:

Series given: 785 243 634 397 572

Third highest number is 572 and its third digit is 2.



Second highest number is 634 and its first digit is 6.

Required difference = 4

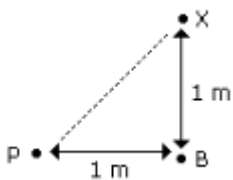
**11. According to  $X @ B * P$ , P is in which direction with respect to X?**

- A. North
- B. South
- C. North-East
- D. South-West

Answer: D

Explanation:

According to  $X @ B * P$



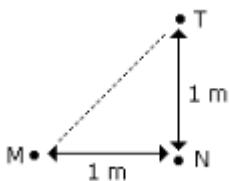
Hence P is in South-West of X.

**12. According to  $M \# N \$ T$ , T is in which direction with respect to M?**

- A. North-West
- B. North-East
- C. South-West
- D. South-East

Answer: B

Explanation:



Hence T is in the North-East of M.

**Direction (13 – 16):** A, B, C, D, E, F and G are sitting in a row facing north:

F is to the immediate right of E.



E is 4th to the right of G.

C is the neighbour of B and D.

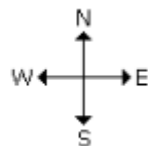
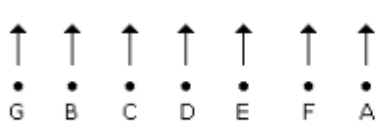
Person who is third to the left of D is at one of ends.

13. Who are to the left of C?

- A. Only B
- B. G, B and D
- C. G and B
- D. D, E, F and A

Answer: C

Explanation:



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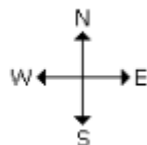
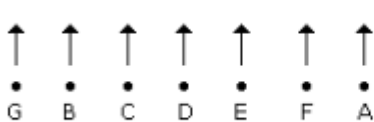
G and B are to the left of C.

14. Which of the following statement is not true?

- A. E is to the immediate left of D
- B. A is at one of the ends
- C. G is to the immediate left of B
- D. F is second to the right of D

Answer: A

Explanation:



15. Who are the neighbours of B?

- A. C and D
- B. C and G
- C. G and F



D. C and E

Answer: A

Explanation:



C and G are the neighbours of B.

16. What is the position of A?

- A. Between E and D
- B. Extreme left
- C. Centre
- D. Extreme right

Answer: D

Explanation:



A is in extreme right.

17. Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 100 kg of fresh fruits?

- A. 20
- B. 30
- C. 40
- D. 50

Answer: C

Explanation: The fruit content in both the fresh fruit and dry fruit is the same.

Given, fresh fruit has 68% water.so remaining 32% is fruit content. Weight of fresh fruits is 100kg

Dry fruit has 20% water.so remaining 80% is fruit content.let weight if dry fruit be y kg.



Fruit % in fresh fruit = Fruit% in dry fruit

$$\text{Therefore, } \frac{32}{100} \times 100 = \frac{80}{100} \times y$$

We get,  $y = 40$  kg.

**18. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?**

- A. MFEDJJOE
- B. EOJDEJFM
- C. MFEJDJOE
- D. EOJDJEFM

**Answer:** D

**Explanation:** There are 8 letters in the word.

The coded word can be obtained by taking the immediately following letters of word, except the first and the last letters of the given word but in the reverse order. That means, in the coded form the first and the last letters have been interchanged while the remaining letters are coded by taking their immediate next letters in the reverse order.

**19. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?**

- A. Monday
- B. Friday
- C. Sunday
- D. Tuesday

**Answer:** B

**Explanation:** On 31st December, 2005 it was Saturday.

Number of odd days from 2006 to 2009 =  $(1 + 1 + 2 + 1) = 5$  days.

On 31st December 2009, it was Thursday.

Thus, on 1st Jan, 2010 it is Friday

**20. A grocer has a sale of Rs 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs, 6500?**

- A. 4991
- B. 5467
- C. 5987
- D. 6453



Answer: A

Explanation: Total sale for 5 months = Rs. (6435 + 6927 + 6855 + 7230 + 6562) = Rs. 34009.

Required sale = Rs. [(6500 x 6) - 34009]

= Rs. (39000 - 34009)

= Rs. 4991.

**21. The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4?**

- A. 76
- B. 79
- C. 85
- D. 87

Answer: A

Explanation: Average = total runs / no. of innings = 32

So, total = Average x no. of innings = 32 x 10 = 320.

Now increase in avg = 4runs. So, new avg = 32+4 = 36runs

Total runs = new avg x new no. of innings = 36 x 11 = 396

Runs made in the 11th inning = 396 - 320 = 76

**Direction (22 – 23):** The following table shows the number of new employees added to different categories of employees in a company and also the number of employees from these categories who left the company every year since the foundation of the Company in 1995.

Year	Managers		Technicians		Operators		Accountants		Peons	
	New	Left	New	Left	New	Left	New	Left	New	Left
1995	760	-	1200	-	880	-	1160	-	820	-
1996	280	120	272	120	256	104	200	100	184	96
1997	179	92	240	128	240	120	224	104	152	88
1998	148	88	236	96	208	100	248	96	196	80
1999	160	72	256	100	192	112	272	88	224	120
2000	193	96	288	112	248	144	260	92	200	104

**22. What is the difference between the total number of Technicians added to the Company and the total number of Accountants added to the Company during the years 1996 to 2000?**



- A. 128
- B. 112
- C. 96
- D. 88

Answer: D

Explanation:

Required difference

$$= (272 + 240 + 236 + 256 + 288) - (200 + 224 + 248 + 272 + 260) = 88.$$

**23. What was the total number of people working in the Company in the year 1999?**

- A. 1312
- B. 1192
- C. 1088
- D. 968

Answer: B

Explanation:

Total number of People working in the Company in 1999

$$= (820 + 184 + 152 + 196 + 224) - (96 + 88 + 80 + 120) = 1192.$$

**24. How many times in a day, are the hands of a clock in straight line but opposite in direction?**

- A. 20
- B. 22
- C. 24
- D. 48

Answer: B

**Explanation:** The hands of a clock point in opposite directions (in the same straight line) 11 times in every 12 hours. (Because between 5 and 7 they point in opposite directions at 6 o'clock only).

So, in a day, the hands point in the opposite directions 22 times.

**25. The Hardest Logic Puzzle Ever?**

If a giraffe has two eyes, a monkey has two eyes, and an elephant has two eyes, how many eyes do we have?





- A. 3
- B. 4
- C. 1
- D. 2

**Answer:** B

**Explanation:** 4 eyes.

Here in the question, it is asked how many Eyes We have so that means here the person who has asked the question is also including the person who is suppose to give the answer. In a clear understanding, the Conversation is happening between 2 people 1st who asked the question and 2nd to whom it has been asked, which means there are 4 eyes.

**26. 'Rhythm of eyes' city name in India?**

- A. Chennai
- B. Nainital
- C. Srinagar
- D. Karnataka

**Answer:** B

**Explanation:** 'Rhythm of eyes' logically means Nainital in India.

The other cities are:

No Zip - Chennai

Mr. City - Srinagar

Do Acting - Karnataka.



**27. What is black when you buy it, red when you use it, and gray when you throw it away?**

- A. Shoe
- B. Charcoal
- C. Belt
- D. All the above

**Answer:** B

**Explanation:** It is Charcoal which is black when we buy it or when not being used. It gets red in appearance when put in use means to say when burning. And eventually when it's been consumed by fire or after getting burned out or used up, changes into ashes which look grey in color.



**28. If air is called green, green is called blue, blue is called sky, sky is called yellow, yellow is called water and water is called pink, then what is the color of clear sky?**

- A. Blue
- B. Sky
- C. Yellow
- D. Water

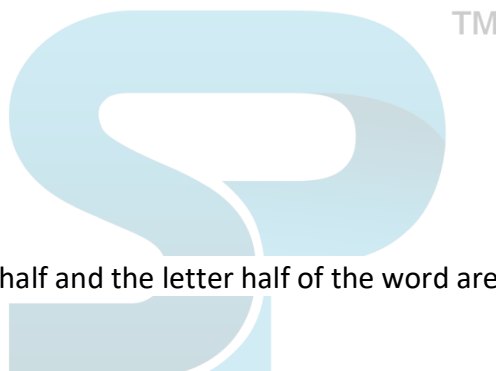
**Answer:** B

**Explanation:** The colour of clear sky is 'blue' and as given, 'blue' is called 'sky'.

So, the colour of clear sky is 'sky'.

**29. According to a military code, SYSTEM is SYSMET and NEARER is AENRER. What is the code for FRACTION?**

- A. CARFTINO
- B. CARFTION
- C. ARFCNOIT
- D. CARFNOIT



**Answer:** D

**Explanation:** The letter is the first half and the letter half of the word are separately reversed to obtain the code.

**30. If green means red, red means yellow, yellow means blue, blue means orange and orange means green, what is the colour of clean sky ?**

- A. Blue
- B. Green
- C. Yellow
- D. Orange

**Answer:** C

**Explanation:** The colour of clean sky is 'blue' and as given, 'yellow' means 'blue'.

so, the colour of clear sky is 'yellow'.

**31. A is the son of C; C and Q are sisters; Z is the mother of Q and P is the son of Z. Which of the following statements is true?**

- A. P and A are cousins



- B. P is the maternal uncle of A
- C. Q is the maternal grandfather of A
- D. C and P are sisters

Answer: B

Explanation:

C and Q are sisters and A is the son of C. Hence, C is the mother of A or Z is the mother Q.

Hence, Z is the maternal grandmother of A. P is the son of Z. Hence, P is the maternal uncle of A.

**32. M is the father of N who is the son of V. In order to know the relation of M to P, which of the statement/statements is/are necessary?**

**P is the brother of V.**

**The daughter of N is the granddaughter of V.**

- A. Only (1)
- B. Only (2)
- C. Either (1) or (2)
- D. (1) and (2) both

Answer: A

Explanation:

M is the father of N and N is the son of V.

Hence, V is the mother of N.

From (1), P is the brother of V

Therefore, M is the brother-in-law of P because V is the wife of M.

From (2), the daughter of N, is the granddaughter of V. From this we do not get any relation of M to P.

**33. If  $X + Y$  means X is the daughter of Y;  $X - Y$  means X is the brother of Y;  $X \% Y$  means X is the father of Y and  $X \times Y$  means X is the sister of Y. Which of the following means I is the niece of J?**

- A.  $J - N \% C \times I$
- B.  $I \times C - N \% J$
- C.  $J + M \times C \% I$
- D.  $I \times C + N - J$

Answer: D





**Explanation:**

$I \times C \rightarrow I$  is the sister of  $C$

$C + N \rightarrow C$  is the daughter of  $N$

and  $N - J \rightarrow N$  is the brother of  $I$ .

Hence,  $I$  is niece of  $J$ .

**34. If  $M \times N$  means  $M$  is the daughter of  $N$ ;  $M + N$  means  $M$  is the father of  $N$ ;  $M \% N$  means  $M$  is the mother of  $N$  and  $M - N$  means  $M$  is the brother of  $N$  then  $P \% Q + R - T \times K$  indicates which relation of  $P$  to  $K$ ?**

- A. Daughter-in-law
- B. Sister-in-law
- C. Aunt
- D. None of these

**Answer:** D

**Explanation:**

$P \% Q \rightarrow P$  is the mother of  $Q$

$Q + R \rightarrow Q$  is the father of  $R$

$R - T \rightarrow R$  is the brother of  $T$

Hence,  $\rightarrow Q$  is the father of  $T$

$T \times K \rightarrow T$  is the daughter of  $K$

Hence,  $\rightarrow Q$  is the husband of  $K$ .

Therefore,  $P$  is the mother-in-law of  $K$ .

**Direction (35-50):** In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

- A. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- B. If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
- C. If the data either in statement I alone or in statement II alone are sufficient to answer the question





- D. If the data given in both statements I and II together are not sufficient to answer the question and
- E. If the data in both statements I and II together are necessary to answer the question.

**35. What is Nitin's rank from the top in a class of forty students?**

**Statements:**

- I. There are ten students between Nitin and Deepak.
- II. Deepak is twentieth from the top.
  - A. I alone is sufficient while II alone is not sufficient
  - B. II alone is sufficient while I alone is not sufficient
  - C. Either I or II is sufficient
  - D. Neither I nor II is sufficient

Answer: D

**Explanation:** Since there are ten students between Nitin and Deepak, so Nitin may be eleven ranks above or below Deepak. Thus, Nitin may be 9th or 31st from the top.

**36. Which direction is Sunny facing now?**

**Statements:**

- I. If Sunny turns to his right and again turns to his right, he will be facing North.
- II. If Sunny walks some distance and turns left and again walks some distance, then his face will be towards left of Dinesh who is facing South.
  - A. I alone is sufficient while II alone is not sufficient
  - B. II alone is sufficient while I alone is not sufficient
  - C. Either I or II is sufficient
  - D. Neither I nor II is sufficient

Answer: C

**Explanation:** From I, we conclude that Sunny is facing South, since a person facing South shall face North on turning to his right, twice.

From II, we know that after walking, Sunny shall face towards left of Dinesh facing South i.e. East and a person walking southwards shall face East on turning to 'his left.

Thus, Sunny is facing south.

**37. T studies in which of the schools B, C, D, E and F?**

**Statements:**

- I. T does not study in the same school as either R or J.



- II. R and J study in schools D and F respectively.
- A. I alone is sufficient while II alone is not sufficient
  - B. II alone is sufficient while I alone is not sufficient
  - C. Either I or II is sufficient
  - D. Neither I nor II is sufficient

Answer: D

Explanation:

As given in I and II, R studies in school D and J studies in school F. So, T does not study in school D or school F. Thus, T studies in any one of the schools B, C or E.

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### 38. How is Divya related to Shaloo?

Statements:

- I. Divya's mother is sister of Shaloo's father.
  - II. Shaloo is the daughter of Divya's grandfather's only child.
- A. I alone is sufficient while II alone is not sufficient
  - B. II alone is sufficient while I alone is not sufficient
  - C. Either I or II is sufficient
  - D. Neither I nor II is sufficient

Answer: C

Explanation: From I, we conclude that Divya's mother is Shaloo's aunt or Divya is Shaloo's cousin.

Now, Divya's grandfathers only child is Divya's parent. So, from II, we conclude that Shaloo and Divya are daughters of the same parents i.e. Divya is Shaloo's sister.

### 39. Statements: $M \# K$ , $K \% P$ , $P \$ R$

Conclusions:

- I.  $R \$ M$
  - II.  $P \% M$
- A. Only I is true
  - B. Only II is true
  - C. Either I or II true
  - D. Neither I nor II is true

Answer: D



Explanation:

$\$ \rightarrow <$

$\# \rightarrow =$

$\% \rightarrow >$

Statements:  $M\#K, K\%P, P\$R$

$M = K > P < R$

Conclusions:

I.  $R\$M \rightarrow R$

II.  $P\%M \rightarrow P > M$  (False)

Hence, neither conclusion I nor II is definitely true.

**40. Statements:  $N \$ B, B \# D, D \% C$**

**Conclusions:**

I.  $D \$ N$

II.  $B \% C$

- A. Only I is true
- B. Only II is true
- C. Either I or II true
- D. Neither I nor II is true



Answer: B

Explanation:

$\$ \rightarrow <$

$\# \rightarrow =$

$\% \rightarrow >$

Statements:  $N\$B, B\#D, D\%C$

$N < B = D > C$

Conclusions:





I.  $D\$N \rightarrow D < N$  (False)

II.  $B\%C \rightarrow B > C$  (True)

Hence, only conclusion II is definitely true.

**41. Insurance companies' ability to pay the claims of policyholders is termed as \_\_\_\_\_**

- A. Solvency
- B. Schedule
- C. Retrospective Rating
- D. credit life

**Answer:** A

**Explanation:** Solvency refers to an enterprise's capacity to meet its long-term financial commitments.

**42. \_\_\_\_\_ is an insurance to cover problems associated with travelling, generally including trip cancellation due to illness, lost luggage and other incidents.**

- A. Nursing Home Insurance
- B. Kidnap/Ransom Insurance
- C. Inland Marine Insurance
- D. Travel Insurance

**Answer:** D

**Explanation:** Travel insurance is insurance that is intended to cover medical expenses, trip cancellation, lost luggage, flight accident and other losses incurred while travelling.

**43. A form of annuity contract that gives purchasers the freedom to choose among certain optional features in their contract is known as \_\_\_\_\_**

- A. Salvage
- B. Schedule
- C. Retrospective Rating
- D. Unbundled Contracts

**Answer:** D

**Explanation:** By using unbundled contracts, we can choose optional features in the contract.

**44. Risks for which it is difficult for someone to get insurance is called \_\_\_\_\_**

- A. Partial Risk
- B. Uninsurable Risk
- C. Covariant Risk



D. Pure Risk

Answer: B

**Explanation:** A situation that you cannot protect yourself against by buying insurance because it is impossible to calculate how likely it is to happen, or how much damage it will cause.

**45. Portion of an auto insurance policy that protects a policyholder from uninsured and hit-and-run drivers is known as \_\_\_\_\_**

- A. Nursing Home Insurance
- B. Kidnap/Ransom Insurance
- C. Inland Marine Insurance
- D. Uninsured Motorist Coverage

Answer: D

**Explanation:** Uninsured motorist coverage is designed to provide the injured party with compensation above what is allotted by the at-fault party's policy.

**46. A policy that combines protection against premature death with a savings account that can be invested in stocks, bonds, and money market mutual funds at the policyholder's discretion is called \_\_\_\_\_**

- A. Variable Life Insurance
- B. Kidnap/Ransom Insurance
- C. Inland Marine Insurance
- D. Uninsured Motorist Coverage

Answer: A

**Explanation:** A form of permanent life insurance, Variable life insurance provides permanent protection to the beneficiary upon the death of the policy holder.

**47. Mobile Money Identifier (MMID) is a 7 digit unique number issued by the bank. What are the last three digits represent?**

- A. to identify the account of the user
- B. to identify the branch of the user
- C. to identify the bank of the user
- D. None of these

Answer: A

**48. PAN card will be issued under Section \_\_\_\_\_ of the Income Tax Act.**

- A. 1.139A



- B. 2.189A
- C. 3.89A
- D. 4.None of these

Answer: A

**49. Permanent Account Number (PAN) is used to identify the Indian nationals and regular Income Tax payer under the\_\_\_\_\_.**

- A. Indian Income Tax Act, 1981
- B. Indian Income Tax Act, 1961
- C. Indian Income Tax Act, 1971
- D. None of these

Answer: B

**50. How many digis in BSR (Basic Statistical Returns) code?**

- A. 9
- B. 10
- C. 11
- D. None of these

Answer: D

**51. Society for Worldwide Interbank Financial Telecommunication (SWIFT) is 8 to 11 \_\_\_\_\_.**

- A. digit code
- B. Alphabetic code
- C. Alpha numeric code
- D. None of these

Answer: B

**52. What does the last character represent in PAN CARD?**

- A. type of holder
- B. Surname of holder
- C. Check digit
- D. None of these

Answer: C

**53. as per which act, holidays are provided in the banks?**

- A. RBI act
- B. Banking regulation act
- C. As per orders of govt.



D. Banking nationalization act.

Answer: B

**54. World investment report is published by?**

- A. UNDP
- B. World bank
- C. IMF
- D. UNCTAD

Answer: D

**55. Which of the following schemes are not meant for investment purposes?**

- A. national saving certificate
- B. mutual funds
- C. infrastructure bonds
- D. letter of credit

Answer: D

**56. What was the purpose of setting up Narsimhan committee-2?**

- A. efficiency and productivity of financial institution
- B. banking reform process
- C. export of it sector
- D. fiscal reform process

Answer: B

**57. Merchant banking in India is governed by:-**

- A. SEBI
- B. RBI
- C. IRDA
- D. ministry of finance

Answer: A

**58. Money laundering means:-**

- A. hiding of income source mainly to avoid income tax
- B. Money acquired through criminal sources.
- C. Money acquired from undisclosed foreign sources.
- D. Process of conversion of money obtained illegally to appear to have originated from legitimate sources.



Answer: D

**59. UJALA scheme is related to?**

- A. LED Bulbs distribution
- B. Solar Panel distribution
- C. LPG cylinder distribution
- D. None of the above

Answer: A

**60. Pradhan Mantri Sansad Adarsh Gram Yojana was launched in the year?**

- A. 2012
- B. 2013
- C. 2014
- D. 2015

Answer: C

**61. Which of the following fact is/are true regarding Gram Uday Se Bharat Uday Abhiyan?**

- A. It began on April 14 from Mhow in Madhya Pradesh.
- B. It aims to improve rural livelihoods.
- C. It aims to increase 'social harmony'.
- D. All of the above

Answer: D

**62. National RURBAN Mission is also known as?**

- A. Deen Dayal Rurban Mission (DDRM)
- B. Shyama Prasad Mukherji Rurban Mission (SPMRM)
- C. Veer Savarkar Rurban Mission (VSRM)
- D. None of the above

Answer: B

**63. What is the full form of AMRUT?**

- A. Atal Mission for Rejuvenation and Urban Transformation
- B. Additional Mission for Rejuvenation and Urban Transformation
- C. Atal Mission for Recycle and Urban Transformation
- D. None of the above

Answer: A

**64. Which of the following is a saving certificate scheme?**



- A. Kisan Credit Card
- B. Kisan Vikas Patra
- C. Jan Dhan Yojana
- D. None of the above

Answer: B

**65. Rani Laxmi Bai Pension scheme is launched by which State Government?**

- A. Uttar Pradesh
- B. Kerala
- C. Madhya Pradesh
- D. Bihar

Answer: A

**66. "Runa Upasamanam" programme is related to?**

- A. Children Safety
- B. Loan Waiver
- C. Women Education
- D. Protection of Rivers

Answer: B

**67. Which country operationalized world's largest radio telescope?**

- A. USA
- B. China
- C. Russia
- D. India

Answer: B

**68. Katerina Sakellaropoulou was elected the first woman President of -**

- A. Greece
- B. Spain
- C. Finland
- D. Netherland

Answer: A

**69. What is India's rank on EIU's Global Democracy Index 2019?**

- A. 48th Rank
- B. 50th Rank
- C. 53rd Rank



D. 51st Rank

Answer: D

**70. What is India's rank on the WEF's Global Social Mobility Index 2020?**

- A. 75th Rank
- B. 77th Rank
- C. 76th Rank
- D. 78th Rank

Answer: C

**71. Allocation for BharatNet programme for 2020-21 is -**

- A. Rs. 10000 crore
- B. Rs. 8000 crore
- C. Rs. 6000 crore
- D. Rs. 4000 crore

Answer: C

**72. Agriculture credit target for the year 2020-21 has been set at -**

- A. Rs. 15 lakh crore
- B. Rs. 14 lakh crore
- C. Rs. 13 lakh crore
- D. Rs. 12 lakh crore

Answer: A

**73. India's top five trading partners are -**

- A. USA, China, UAE, Saudi Arabia and Hong Kong
- B. USA, China, UK, Japan, Russia
- C. China, USA, UAE, France, Japan,
- D. China, UAE, USA, UK, France

Answer: A

**74. As per Economic Survey 2019-20 projections to achieve GDP of US \$ 5 trillion by 2025, India needs to spend about ..... on infrastructure.**

- A. US \$ 1.02 trillion
- B. US \$ 1.40 trillion
- C. US \$ 1.52 trillion
- D. US \$ 1.79 trillion





Answer: B

**75. Who among the given has not served as the Chief Economic Adviser (CEA) to the Government of India?**

- A. Raghuram Rajan
- B. Bibek Debroy
- C. Arvind Subramanian
- D. Kaushik Basu

Answer: B

**76. Dollu Kunitha is a popular folk dance of which state?**

- A. Odisha
- B. Tamil Nadu
- C. Karnataka
- D. Telangana

Answer: C

**77. Mopa Airport is situated in which of the following states?**

- A. Odisha
- B. Goa
- C. West Bengal
- D. Haryana

Answer: B

**78. The 31st Parallel is a boundary line between which countries?**

- A. India and China
- B. Iraq and Iran
- C. Mali and Mauritania
- D. South Korea and North Korea

Answer: B

**79. The World Day against Child Labour is observed on\_\_\_\_\_**

- A. April 17
- B. June 12
- C. July 11
- D. August 2

Answer: B



80. Badrinath in Uttarakhand is along the bank of the river\_\_\_\_\_

- A. Alaknanda
- B. Gomti
- C. Ganges
- D. Yamuna

Answer: B

**Direction (81 – 82):**

A school has four sections A, B, C, D of Class IX students.

The results of half yearly and annual examinations are shown in the table given below.

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both Exams	28	23	17	27
Students failed in half-yearly but passed in Annual Exams	14	12	8	13
Students passed in half-yearly but failed in Annual Exams	6	17	9	15
Students passed in both Exams	64	55	46	76

81. If the number of students passing an examination be considered a criteria for comparison of difficulty level of two examinations, which of the following statements is true in this context?

- A. Half yearly examinations were more difficult.
- B. Annual examinations were more difficult.
- C. Both the examinations had almost the same difficulty level.
- D. The two examinations cannot be compared for difficulty level.

Answer: C

**Explanation:** Number of students who passed half-yearly exams in the school

= (Number of students passed in half-yearly but failed in annual exams) + (Number of students passed in both exams)

$$= (6 + 17 + 9 + 15) + (64 + 55 + 46 + 76) = 288.$$

Also, Number of students who passed annual exams in the school

= (Number of students failed in half-yearly but passed in annual exams + (Number of students passed in both exams)

$$= (14 + 12 + 8 + 13) + (64 + 55 + 46 + 76) = 288.$$



Since, the number of students passed in half-yearly = the number of students passed in annual exams. Therefore, it can be inferred that both the examinations had almost the same difficulty level.

Thus Statements (a), (b) and (d) are false and Statement (c) is true.

**82. How many students are there in Class IX in the school?**

- A. 336
- B. 189
- C. 335
- D. 430

**Answer:** D

**Explanation:** Since the classification of the students on the basis of their results and sections form independent groups, so the total number of students in the class:

$$= (28 + 23 + 17 + 27 + 14 + 12 + 8 + 13 + 6 + 17 + 9 + 15 + 64 + 55 + 46 + 76) = 430.$$

**83. In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?**

- A. 920
- B. 825
- C. 720
- D. 610

**Answer:** C

**Explanation:** The word 'OPTICAL' has 7 letters. It has the vowels 'O', 'I', 'A' in it and these 3 vowels should always come together. Hence these three vowels can be grouped and considered as a single letter. That is, PTCL (OIA).

Hence we can assume total letters as 5 and all these letters are different.

Number of ways to arrange these letters

$$= 5! = 5 \times 4 \times 3 \times 2 \times 1$$

$$= 120$$

All the 3 vowels (OIA) are different

All the 3 vowels (OIA) are different

Number of ways to arrange these vowels among themselves

$$= 3! = 3 \times 2 \times 1 = 6$$



Hence, required number of ways

$$= 120 \times 6$$

$$= 720$$

**84. In how many different ways can the letters of the word 'LEADING' be arranged such that the vowels should always come together?**

- A. 720
- B. 420
- C. None of these
- D. 122

**Answer:** Option A

**Explanation:** The word 'LEADING' has 7 letters. It has the vowels 'E', 'A', 'I' in it and these 3 vowels should always come together. Hence these 3 vowels can be grouped and considered as a single letter. that is, LDNG(EAI).

Hence we can assume total letters as 5 and all these letters are different. Number of ways to arrange these letters

$$= 5! = 5 \times 4 \times 3 \times 2 \times 1$$

$$= 120$$

In the 3 vowels (EAI), all the vowels are different. Number of ways to arrange these vowels among themselves

$$= 3! = 3 \times 2 \times 1$$

$$= 6$$

Hence, required number of ways

$$= 120 \times 6$$

$$= 720$$

**85. A coin is tossed 3 times. Find out the number of possible outcomes.**

- A. None of these
- B. 2
- C. 8
- D. 1

**Answer:** C



**Explanation:** When a coin is tossed once, there are two possible outcomes: Head(H) and Tale(T)

Hence, when a coin is tossed 3 times, the number of possible outcomes

$$= 2 \times 2 \times 2$$

$$= 8$$

(The possible outcomes are HHH, HHT, HTH, HTT, THH, THT, TTH, TTT )

**86. In how many different ways can the letters of the word 'DETAIL' be arranged such that the vowels must occupy only the odd positions?**

- A. 36
- B. None of these
- C. 64
- D. 120

**Answer:** A

**Explanation:** The word 'DETAIL' has 6 letters which has 3 vowels (EAI)<sup>TM</sup> and 3 consonants (DTL)

The 3 vowels (EAI) must occupy only the odd positions. Let's mark the positions as (1) (2) (3) (4) (5) (6). Now, the 3 vowels should only occupy the 3 positions marked as (1),(3) and (5) in any order.

Hence, number of ways to arrange these vowels

**87.  $555.55 + 55.55 + 15 + 0.55 + 0.05 = ?$**

- A. 626.50
- B. 626.70
- C. 625.50
- D. 626.70

**Answer:** D

**Explanation:**  $555.55 + 55.55 + 15 + 0.55 + 0.05 = 626.70$

**88.  $(3080 + 6160) \div ? = 330$**

- A. 24
- B. 23
- C. 28
- D. 27

**Answer:** C

**Explanation:**



$$3080 + 6160 = 9240$$

$$\frac{9240}{330} = 28$$

**89.  $? \times (523.5 + 687.5) = 24220$**

- A. 24
- B. 20
- C. 28
- D. 27

**Answer:** B

**Explanation:**

$$x \times 1211 = 24220; x = 20$$

**90. A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is:**

- A. 145
- B. 253
- C. 370
- D. 352

**Answer:** B

**Explanation:**

Let the middle digit be x.

Then,  $2x = 10$  or  $x = 5$ . So, the number is either 253 or 352.

Since the number increases on reversing the digits, so the hundred's digit is smaller than the unit's digit.

Hence, required number = 253.

**91. The sum of the digits of a two-digit number is 15 and the difference between the digits is 3. What is the two-digit number?**

- A. 69
- B. 78
- C. 96
- D. Cannot be determined

**Answer:** D





**Explanation:**

Let the ten's digit be  $x$  and unit's digit be  $y$ .

Then,  $x + y = 15$  and  $x - y = 3$  or  $y - x = 3$ .

Solving  $x + y = 15$  and  $x - y = 3$ , we get:  $x = 9$ ,  $y = 6$ .

Solving  $x + y = 15$  and  $y - x = 3$ , we get:  $x = 6$ ,  $y = 9$ .

So, the number is either 96 or 69.

Hence, the number cannot be determined.

**91. A number consists of two digits. If the digits interchange places and the new number is added to the original number, then the resulting number will be divisible by:**

- A. 3
- B. 5
- C. 9
- D. 11

**Answer:** D

**Explanation:**

Let the ten's digit be  $x$  and unit's digit be  $y$ .

Then, number =  $10x + y$ .

Number obtained by interchanging the digits =  $10y + x$ .

$(10x + y) + (10y + x) = 11(x + y)$ , which is divisible by 11.

**92. If selling price is doubled, the profit triples. Find the profit percent?**

- A. 100%
- B. 200%
- C. 300%
- D. 400%

**Answer:** A

**Explanation:**

Let the C.P be Rs.100 and S.P be Rs. $x$ , Then







The profit is  $(x-100)$

Now the S.P is doubled, then the new S.P is  $2x$

New profit is  $(2x-100)$

Now as per the given condition;

$$\Rightarrow 3(x-100) = 2x-100$$

By solving, we get

$$x = 200$$

Then the Profit percent =  $(200-100)/100 = 100$

Hence the profit percentage is 100%

**93. If books bought at prices ranging from Rs. 200 to Rs. 350 are sold at prices ranging from Rs. 300 to Rs. 425, what is the greatest possible profit that might be made in selling eight books?**

- A. 600
- B. 1200
- C. 1800
- D. none of these

Answer: C

Explanation:

Least Cost Price = Rs.  $(200 \times 8) = \text{Rs. } 1600$ .

Greatest Selling Price = Rs.  $(425 \times 8) = \text{Rs. } 3400$ .

Required profit = Rs.  $(3400 - 1600) = \text{Rs. } 1800$ .

**94. A man buys oranges at Rs 5 a dozen and an equal number at Rs 4 a dozen. He sells them at Rs 5.50 a dozen and makes a profit of Rs 50. How many oranges does he buy?**

- A. 30 dozens
- B. 40 dozens
- C. 50 dozens
- D. 60 dozens

Answer: C

Explanation:



Cost Price of 2 dozen oranges Rs.  $(5 + 4) = \text{Rs. } 9$ .

Sell price of 2 dozen oranges = Rs. 11.

If profit is Rs 2, oranges bought = 2 dozen.

If profit is Rs. 50, oranges bought =  $\frac{2}{2} \times 50$  dozens = 50 dozens.

**95. A and B can do a piece of work in 12 days and 16 days respectively. Both work for 3 days and then A goes away. Find how long will B take to complete the remaining work?**

- A. 15 days
- B. 12 days
- C. 10 days
- D. 9 days

**Answer:** D

**Explanation:**

$$= \frac{3}{12} + \frac{(3+x)}{16}$$

$$x = 9 \text{ days}$$

**96. A and B can do a piece of work in 3 days, B and C in 4 days, C and A in 6 days. How long will C take to do it?**

- A. 18 days
- B. 20 days
- C. 24 days
- D. 30 days

**Answer:** C

**Explanation:**

$$2c = \frac{1}{4} + \frac{1}{6} + \frac{1}{3} = 1/12$$

$$c = \frac{1}{24} \Rightarrow 24 \text{ days}$$

**97. Express a speed of 36 kmph in meters per second?**

- A. 10 mps
- B. 12 mps
- C. 14 mps
- D. 17 mps



Answer: A

Explanation:

$$36 \times \frac{5}{18} = 10 \text{ mps}$$

**98. Express 25 mps in kmph?**

- A. 15 kmph
- B. 99 kmph
- C. 90 kmph
- D. None

Answer: C

Explanation:

$$25 \times \frac{18}{5} = 90 \text{ kmph}$$

**99. What amount does Kiran get if he invests Rs. 18000 at 15% p.a. simple interest for four years?**

- A. Rs. 24800
- B. Rs. 28400
- C. Rs. 24400
- D. Rs. 28800

Answer: D

Explanation:

$$\text{Simple interest} = \frac{(18000 \times 4 \times 15)}{100} = \text{Rs. } 10800$$

$$\text{Amount} = P + I = 18000 + 10800 = \text{Rs. } 28800$$

**100. How much interest can a person get on Rs. 8200 at 17.5% p.a. simple interest for a period of two years and six months?**

- A. Rs. 3770
- B. Rs. 2850.50
- C. Rs. 3587.50
- D. Rs. 3750

Answer: C

Explanation:



$$I = \frac{(8200 \times 2.5 \times 17.5)}{100} = \frac{(8200 \times 5 \times 35)}{(100 \times 2 \times 2)} = \text{Rs. } 3587.50$$

**101. In how many years does a sum of Rs. 5000 yield a simple interest of Rs. 16500 at 15% p.a.?**

- A. 22
- B. 24
- C. 25
- D. 23

**Answer:** A

**Explanation:**

$$T = \frac{(100 \times 16500)}{(15 \times 5000)} = 22 \text{ years}$$

**102. Find out the next term in the series 7, 11, 13, 17, 19, ...**

- A. 21
- B. 23
- C. 27
- D. None of these

**Answer:** B

**Explanation:**

Given series is a consecutive prime number series. Therefore, the next term will be 23.

**103. Find the missing term 6, ?, 21, 33, 48**

- A. 14
- B. 20
- C. 12
- D. 18

**Answer:** C

**Explanation:**

Series Pattern

+6, +9, +12, +15....

∴ Missing term = 6 + 6 = 12

**104. A alcohol solution has 35% alcohol. Another solution has 25% alcohol. How many liters of the second solution must be added to 18 liters of the first solution to make a solution of 30% alcohol?**



- A. 18
- B. 46
- C. 72
- D. 84

Answer: A

Explanation:

---> From Alligation:

---> 1st Solution 2nd Solution

---> 35% 25%

---> 30%

--->  $(30-25)=5$   $(35-30)=5$

---> HENCE

---> Ratio of solution 1 : solution 2 =  $(5:5) = (1:1)$

---> As 1 = 18 litres

---> Therefore, we add 18 liter of 2nd solution

**105. Two equal vessels A and B contain 60% of sugar and 40% of sugar respectively and the remaining Rava. In which 40 kg of mixture is taken out from vessel A and replaced into vessel B. Find the initial quantity of vessel if the final ratio of sugar and Rava in vessel B is 16: 19**

- A. 120 litres
- B. 150 litres
- C. 80 litres
- D. 100 litres

Answer: A

Explanation:

Vessel a Sugar and Rava ratio = 3: 2

Vessel B sugar and Rava ratio = 2: 3

Given,



$$\frac{(2x + 24)}{(3x + 16)} = \frac{16}{19}$$

$$38x + 456 = 48x + 256$$

$$10x = 200$$

$$x = 20 \text{ litres}$$

$$\text{Initial quantity} = x \times 5 = 100 \text{ litres}$$

**106. Find the least number which when divided by 12, 27 and 35 leaves 6 as a remainder?**

- A. 3586
- B. 3756
- C. 3786
- D. 4786

**Answer:** C

**Explanation:**

Let find the answer:

$$\text{Number} = \text{LCM} (12, 17, 35) + 6$$

$$= 3780 + 6$$

$$= 3786$$

**107. Find the 4-digit smallest number which when divided by 12, 15, 25, 30 leaves no remainder?**

- A. 1300
- B. 1400
- C. 1200
- D. 1500

**Answer:** C

**Explanation:**

LCM of 12, 15, 25 and 30 is 300

least number of 4-digit divided by 300 is 1200

108.



7	22	5
5	9	11
9	11	15
38	77	?

- A. 160
- B. 120
- C. 83
- D. 55

Answer: A

Explanation:

In the first column,  $(9 \times 5) - 7 = 38$ .

In the second column,  $(11 \times 9) - 22 = 77$ .

So, missing number =  $(11 \times 15) - 5 = 160$

109.

20	48	36
10	16	8
5	?	4
40	64	72

- A. 10
- B. 12
- C. 13
- D. 11

Answer: B

Explanation:

In the first column,  $10 \times (20 \div 5) = 40$ .

In the third column,  $8 \times (36 \div 4) = 72$ .



Let the missing number be  $y$ . Then, in the second column, we have:

$$16 \times (48 \div y) = 64. \text{ So, } y = 12$$

**110. The expression  $(11.98 \times 11.98 + 11.98 \times x + 0.02 \times 0.02)$  will be a perfect square for  $x$  equal to:**

- A. 0.02
- B. 0.2
- C. 0.04
- D. 0.4

**Answer:** C

**Explanation:** Given expression =  $(11.98)^2 + (0.02)^2 + 11.98 \times x$ .

For the given expression to be a perfect square, we must have

**111.  $3889 + 12.952 - ? = 3854.002$**

- A. 47.095
- B. 47.752
- C. 47.932
- D. 47.95

**Answer:** D

**Explanation:** Let  $3889 + 12.952 - x = 3854.002$ .

$$\text{Then } x = (3889 + 12.952) - 3854.002$$

$$= 3901.952 - 3854.002$$

$$= 47.95.$$

**112. The present ages of three persons in proportions 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find their present ages (in years).**

- A. 8, 20, 28
- B. 16, 28, 36
- C. 20, 35, 45
- D. None of these

**Answer:** B

**Explanation:**







Let their present ages be  $4x$ ,  $7x$  and  $9x$  years respectively.

Then,  $(4x - 8) + (7x - 8) + (9x - 8) = 56$

$$20x = 80$$

$$x = 4.$$

Their present ages are  $4x = 16$  years,  $7x = 28$  years and  $9x = 36$  years respectively.

**113. Ayesha's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?**

- A. 2 years
- B. 4 years
- C. 6 years
- D. 8 years

**Answer:** C

**Explanation:**

Mother's age when Ayesha's brother was born = 36 years.

Father's age when Ayesha's brother was born =  $(38 + 4)$  years = 42 years.

Required difference =  $(42 - 36)$  years = 6 years.

**114. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?**

- A. 0
- B. 1
- C. 10
- D. 19

**Answer:** D

**Explanation:**

Average of 20 numbers = 0.

Sum of 20 numbers  $(0 \times 20) = 0$ .

It is quite possible that 19 of these numbers may be positive and if their sum is  $a$  then 20th number is  $(-a)$ .



**115. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?**

- A. 76 kg
- B. 76.5 kg
- C. 85 kg
- D. Data inadequate

**Answer:** D

**Explanation:**

Total weight increased =  $(8 \times 2.5) \text{ kg} = 20 \text{ kg}$ .

Weight of new person =  $(65 + 20) \text{ kg} = 85 \text{ kg}$ .

**116. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m<sup>3</sup>) is:**

- A. 4830
- B. 5120
- C. 6420
- D. 8960

**Answer:** B

**Explanation:**

Clearly,  $l = (48 - 16) \text{ m} = 32 \text{ m}$ ,

$b = (36 - 16) \text{ m} = 20 \text{ m}$ ,

$h = 8 \text{ m}$ .

Volume of the box =  $(32 \times 20 \times 8) \text{ m}^3 = 5120 \text{ m}^3$

**117. 125, 80, 45, 20, ?**

- A. 5
- B. 8
- C. 10
- D. 12

**Answer:** A

**Explanation:**





The pattern is - 45, - 35, - 25, .....

So, missing term =  $20 - 15 = 5$ .

**118. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:**

- A. 2700
- B. 2900
- C. 3000
- D. 3100

**Answer:** A

**Explanation:**

Number of valid votes = 80% of 7500 = 6000.

Valid votes polled by other candidate = 45% of 6000

$$= \left( \frac{45}{100} \times 6000 \right) = 2700.$$

**119. Smallest side of a right angled triangle is 13 cm less than the side of a square of perimeter 72 cm. Second largest side of the right angled triangle is 2 cm less than the length of the rectangle of area  $112 \text{ cm}^2$  and breadth 8 cm. What is the largest side of the right angled triangle?**

- A. 13 cm
- B. 14 cm
- C. 15 cm
- D. 17 cm

**Answer:** A

**Explanation:**

$$\text{Side of square} = \frac{72}{4} = 18 \text{ cm}$$

$$\text{Smallest side of the right angled triangle} = 18 - 13 = 5 \text{ cm}$$

$$\text{Length of rectangle} = \frac{112}{8} = 14 \text{ cm}$$

$$\text{Second side of the right angled triangle} = 14 - 2 = 12 \text{ cm}$$

$$\text{Hypotenuse of the right angled triangle} = \sqrt{25 + 144} = 13 \text{ cm}$$



**120. The length of a rectangle is reduced by 30%. By what percent would the width have to be increased to maintain the original area?**

- A. 25%
- B. 42.86%
- C. 32.76%
- D. 35.50%

Answer: B

Explanation:

$$\text{----> Width} = 30 \times \frac{100}{100} - 30$$

$$\text{----> } = (3000/70) = 42.86\%$$

**Directions (121-125):** Read the following passage carefully and answer the questions given below it. Certain parts are given in bold to answer some of the questions based on the passage.

While adopting a technology, Indians have made changes to their attitudes and societal norms but often also made the technology work around their instincts. One area where the law of the jungle seems to prevail is the road, especially in cities. As a rule, typically, two-wheelers and cars don't consider lanes important. We don't want to wait our turn but keep jumping lanes and wading around obstacles. We seem to be possessed by a primal urge to get ahead of others even if it means the driver of the car or the two-wheeler rider on the other lane has to jam hard on his brakes.

Over the next 15 years, however, Indian driving is likely to be disrupted by electric vehicles that the Indian government seems keen on introducing, without transitioning to hybrids. Far less polluting and carbon-emitting, the electric car, however, poses a challenge to Indian driving practices. The motor is much quieter than the engine and the transmission system has fewer parts too. "All one hears is wind, tyre and road noise, which is minimal in city driving," says Mahesh Babu, CEO of Mahindra Electric. Imagine thousands of cars moving around, quietly, on our roads. Electric motors are among the perkier prime movers. After starting, they can very quickly ramp up to full speed, unlike the internal combustion engine that needs to idle and takes time to increase speed. "Instant torque and quick acceleration," sums up Mr. Babu. Maximum torque is available for a range of speeds too.

Another crucial, efficiency-boosting attribute of the electric car will be regenerative braking. It's a cute application of an old physics law where the electric motor powering the car can reverse its role, becoming a generator and charging the battery. The generator load is the resistance that provides braking torque and it can be varied if you want to just bring down the speed, not stop the car altogether. Electric cars present a unique opportunity for Indian drivers. Instead of tamping down the technology, we can instead change our habits — be mindful of lanes, wait our turn, be polite and respectful of others and their needs, and make our driving smoother, as well as make best use of regenerative braking.



**121. How do Indians adopt new technologies?**

- A. with full consciousness
- B. use it with utmost care and using it productively
- C. refrain from sharing it
- D. mould it according to our habits

Answer: D

**122. What is the reason for imminent disruption in Indian style of driving?**

- A. hybrid and electric cars will pollute lesser than conventional ones
- B. driving will be safer
- C. electric cars will be difficult to maintain
- D. getting accustomed to electric vehicles would be difficult

Answer: D

**123. Which one of the following is most similar in meaning to “WADING” ?**

- A. sideling
- B. trudge
- C. cascading
- D. amplify

Answer: B

**124. Electric vehicles pose a challenge to Indian style of driving because**

- A. cost of running them is high
- B. electric vehicle charging infrastructure is weak
- C. existing roads not compatible with hybrid vehicles
- D. electric vehicles can lead to more accidents

Answer: D

**125. According to the passage, which of the following statements is not true?**

- A. electric cars will reduce noise pollution and hence better than existing cars
- B. hybrid vehicles are far less polluting and carbon emitting
- C. adopting electric vehicles would be a huge challenge
- D. electric cars accelerate very quickly

Answer: A

**126. Which one among the following statements represent the writer’s opinion?**

- A. time is not right to implement hybrid vehicles



- B. electric cars can boost the economy
- C. indian driving practices is not suited to electric cars
- D. Both 1 and 2

Answer: C

**127. How regenerative braking is efficient?**

- A. braking can itself be done by the electric motor
- B. it helps in instant torque
- C. it can reduce acceleration in a short period of time
- D. handling it is much simpler

Answer: A

**128. What can you infer from the phrase “TAMPING DOWN”?**

- A. to lead to an accident
- B. crush someone
- C. toning of rules
- D. reduce importance of something

Answer: D

**129. What all habitual aspects needs to be corrected according to the passage?**

- A. be mindful of lanes
- B. respecting other needs
- C. waiting for our turn
- D. 1, 2 and 3

Answer: D

**130. Which one of the following is the most similar in meaning to the word “PERKIEST”**

- A. beneficial
- B. bouncy
- C. productive
- D. lively

Answer: D

**Directions (131 – 135):** In the following passage there are blanks each of which has been numbered. These numbers are printed below the passage and against each five words are suggested, one of which fills the blanks appropriately. Find out the appropriate word in each case.

Around the world, forests are being \_\_(1)\_\_ at a rate of about thirteen million hectares a year and deforestation accounts for an estimated 17% - 20% of all global emissions. In addition, forests and other



terrestrial carbon sinks play a \_\_ (2) \_\_ role in preventing runaway climate change, soaking up a full 2.6 Gt of atmospheric carbon every year. The destruction of forests, therefore, not only emits carbon-a staggering 1.6 Gt a year, which severely \_\_ (3) \_\_ forests capacity to absorb emissions from other sources- but also drastically \_\_ (4) \_\_ the amount of forested land available to act as a carbon sink in the future.

However, the effects of deforestation extend beyond carbon. Rainforests \_\_ (5) \_\_ a wide variety of ecosystems services, from regulating rainfall to purifying groundwater and keeping fertile soil from \_\_ (6) \_\_; deforestation in one area can seriously damage food production and \_\_ (7) \_\_ to clean water in an entire region. The value of global ecosystem services has been estimated at 33 trillion USD each year (almost half of global GDP), but these services have been taken for granted without a mechanism to make the market reflect their value. Rainforests are also a home and \_\_ (8) \_\_ of income for a huge number of people in Africa, Asia and South America. \_\_ (9) \_\_ this, economic pressures frequently drive both local communities and national governments in the developing world to \_\_ (10) \_\_ these forests in ways that are unsustainable, clear-cutting vast areas for fuel, timber, mining or agricultural land.

131.

- A. ended
- B. destroyed
- C. extinct
- D. killed

Answer: B

132.

- A. tough
- B. important
- C. vital
- D. biggest

Answer: C

133.

- A. affects
- B. diminishes
- C. increases
- D. impairs

Answer: D

134.

- A. plagues
- B. develops





- C. reduces
- D. shortens

Answer: C

135.

- A. sell
- B. offer
- C. give
- D. provide

Answer: B

**136. While all these forms exist in India, \_\_\_\_\_ and \_\_\_\_\_ content are gaining steam, leading to the possibility of potential violence and impacting society.**

- A. fabricated, manipulated
- B. irrelevant, useless
- C. joyous, exalted
- D. unnecessary, neutral

Answer: A

The blanks refer to the type of content that is spreading rapidly and is “leading to the possibility of potential violence”. This indicates that the adjectives describing this type of content must be strongly negative.

In the context of the sentence, the only combination of words that lead to a meaningful sentence is "fabricated" and "manipulated". All other combinations are incorrect either contextually or grammatically as both the words need to be strongly negative.

**137. While predatory journals are not a uniquely Indian problem, the problem appears to be more grave here, and has possibly been aggravated by the UGC’s policy of \_\_\_\_\_ recommendations for \_\_\_\_\_ of journals in its approved list.**

- A. seeking, exclusion
- B. denying, publishing
- C. soliciting, inclusion
- D. facing, projection

Answer: C





From the given sentence, we can infer that the problem has been made worse by UGC's policy of asking for recommendations. In the context of the sentence, the words that are suitable for the first blank are "seeking" and "soliciting". Hence options B, D and E are eliminated.

For the second blank, we can infer that the aforementioned recommendations were sought for the addition of journals in the whitelist. The only word that aptly conveys this meaning is "inclusion". The word "exclusion" means the opposite and this eliminates options A as well.

**138. While media researchers around the world are \_\_\_\_\_ the fake news scene, little \_\_\_\_\_ information is available on the creators and the intention behind it.**

- A. investigating, credible
- B. innovating, sound
- C. instigating, genuine
- D. obscuring, relevant

**Answer:** A

In the context of the sentence, the only combination of words that lead to a meaningful sentence is "investigating" and "credible". All other options are incorrect either contextually or grammatically. Therefore, options B, C, D and E are eliminated. The sentence conveys that despite media researchers trying to inspect the fake news scenario, no reliable information has been found regarding those who have generated the false information.

**139. Global \_\_\_\_\_ effort is essential to addressing \_\_\_\_\_ such as climate change, and delivering on the promise of technology.**

- A. important, views
- B. economic, harmful
- C. wonderful, things
- D. cooperative, challenges

**Answer:** D

In the context of the sentence, the only combination of words that lead to a meaningful sentence is "cooperative" and "challenges". All other options are incorrect either contextually or grammatically. The sentence wants to convey that it is essential for all the countries in the world to unite in order to address issues such as climate change and developing relevant technology.

**140. South Korea is another example where state-owned banks have \_\_\_\_\_ chaebols, rather than \_\_\_\_\_ to political pressure.**

- A. chastened, wading
- B. wanted, surrendering
- C. disciplined, capitulating



D. wrought, ceding

Answer: C

“Chaebols” are large family-owned business conglomerates in South Korea. The use of “rather than” helps us to decipher the meaning of the sentence. The given sentence wants to convey that state-owned banks in South Korea have been able to take necessary actions against business conglomerates and have not succumbed to political pressure.

In the context of the sentence, the words which are suitable for the first blank are “chastened”, “disciplined” and “controlled”. Hence options B and D are eliminated.

As for the second blank, the only word that makes the sentence meaningfully correct is “capitulating” which means ‘ceasing to resist an opponent or an unwelcome demand; yielding’. The words “wading” and “admonishing” are irrelevant to the context of this sentence. This eliminates options A and E as well.

**141. Read each sentence to find out whether is there any grammatical error in it. The error if any part of the sentence, the option given in that part will be the answer. TM**

- A. None of the student
- B. in the class
- C. scored below the
- D. Given cut-off marks.

Answer: A

**142. Read each sentence to find out whether is there any grammatical error in it. The error if any part of the sentence, the option given in that part will be the answer.**

- A. Most people like to
- B. rest after a day’s hard work
- C. but he seemed to have
- D. an inexhaustive supply of energy.

Answer: C

**143. Read each sentence to find out whether is there any grammatical error in it. The error if any part of the sentence, the option given in that part will be the answer.**

- A. A non-banking financial company is a
- B. financial institution similarly to a bank
- C. but it cannot issue
- D. cheque books to customers



Answer: B

**144. Read each sentence to find out whether is there any grammatical error in it. The error if any part of the sentence, the option given in that part will be the answer.**

- A. This is turned out to be
- B. one of our most successful projects
- C. and we have made quite
- D. a large profit from it.

Answer: A

**145. Read each sentence to find out whether is there any grammatical error in it. The error if any part of the sentence, the option given in that part will be the answer.**

- A. The company is in debt
- B. and has been unable
- C. to pay their employees  $\frac{1}{2}$  salaries
- D. for the past six months.

Answer: C

**146. REITERATE**

- A. Deny
- B. Repeat
- C. Frustrate
- D. Illustrate

Answer: B

**147. EMULATE**

- A. Discuss
- B. Deny
- C. Question
- D. Imitate

Answer: D

**148. CONSEQUENCE**

- A. Indifference
- B. Serial
- C. Affect





D. Outcome

Answer: D

**149. INHIBIT**

- A. Surrender
- B. Discard
- C. Refrain
- D. Activate

Answer: D

**150. The workers are hell bent at getting what is due to them.**

- A. hell bent on getting
- B. hell bent for getting
- C. hell bent upon getting
- D. No improvement

Answer: C

**151. When it was feared that the serfs might go too far and gain their freedom from serfdom, the protestant leaders joined the princes at crushing them.**

- A. into crushing
- B. in crushing
- C. without crushing
- D. No improvement

Answer: B

**152. If the room had been brighter, I would have been able to read for a while before bed time.**

- A. If the room was brighter
- B. If the room are brighter
- C. Had the room been brighter
- D. No improvement

Answer: C

**153. The record for the biggest tiger hunt has not been met since 1911 when Lord Hardinge, then Viceroy of India, shot a tiger than measured 11 feet and 6 inches.**

- A. improved
- B. broken



- C. bettered
- D. No improvement

Answer: B

**Directions (154 – 156):** In the given question, a statement divided into different segments is given. The first segment is fixed, rearrange the other segments to form a coherent statement. If the sentence is already arranged or the correct sequence doesn't match any of the given sequence, mark (E) .i.e., "None of the above" as your answer.

**154. With the growing number of vehicles/ and the increase in road lengths, (P)/ Indian roads are spattered with blood (Q)/ as accidents resulting in injuries and fatalities (R)/ have been mounting over the past twenty years. (S)D**

- A. PSQR
- B. RQPS
- C. RPSQ
- D. None of the above

Answer: D

**155. Family firms' aversion to internationalize/ is more pronounced when families can exercise (P)/ and family's participation in management (Q)/ greater control on firms' actions (R)/ through the combined effect of higher family ownership (S)**

- A. PRQS
- B. PRSQ
- C. SQRP
- D. SRPQ

Answer: B

**156. asserted that this was a benevolent and minor mechanism of rule-making (A)/ introducing the Bill in the Lok Sabha, (B)/ rather than a basic amendment to the RTI law (C)/ the Minister of State for Personnel, Public Grievances and Pensions, Jitendra Singh, (D)/**

- A. DCBA
- B. CBAD
- C. ABDC
- D. BDAC

Answer: D

**Directions (157 – 160):** Rearrange the following five sentences in proper sequence so as to for a meaningful paragraph, then answer the questions given below them.



1. After Examining him, the doctor smiled at him mischievously and took out a syringe.
2. Thinking that he was really sick, his father summoned the family doctor.
3. That day, Mintu wanted to take a day off from school
4. Immediately, Mintu jumped up from his bed and swore the he was fine
5. Therefor; he pretended to be sick and remained in bed.

**157. Which sentence should come third in the paragraph?**

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

**158. Which sentence should come last in the paragraph?**

- A. 1
- B. 2
- C. 3
- D. 4

Answer: D

**159. Which sentence should come fourth in the paragraph?**

- A. 1
- B. 2
- C. 3
- D. 4

Answer: A

**160. Which sentence should come second in the paragraph?**

- A. 1
- B. 2
- C. 3
- D. 5

Answer: D

**161. How many major companies around the world manufacture microprocessors?**

- A. Only one company
- B. Tow companies
- C. Three companies
- D. Many companies



Answer: B

**162 Who is the father of computer?**

- A. Charles Newman
- B. Charles Babbage
- C. Henry Babbage
- D. Henry luce

Answer: A

**163. Which is an example of first generation computer?**

- A. EDVAC
- B. EDSAC
- C. ENIAC
- D. UNIVAC

Answer: C

**164 Operating system is used in which generation of computer for the first time?**

- A. First Generation
- B. Second Generation
- C. Third Generation
- D. Fourth Generation

Answer: C

**165. Way in which computer components are connected with each another is called**

- A. computer layout
- B. computer architecture
- C. computer parts
- D. computer hardware

Answer: B

**166. Example of computer logic operation is**

- A. AND
- B. OR
- C. NOR
- D. all of these

Answer: D



**167. Computer system mainly consists of**

- A. CPU
- B. main memory
- C. I/O unit
- D. all of these

Answer: D

**168. Basic unit of computer is**

- A. ALU
- B. CU
- C. I/O unit
- D. all of these

Answer: D

**169. A nonvolatile type of memory that can be programmed and erased in sectors, rather than one byte at a time is:**

- A. flash memory
- B. MPROM
- C. EPROM
- D. EEPROM

Answer: A

**170. Memory that loses its contents when power is lost is:**

- A. random
- B. volatile
- C. nonvolatile
- D. static

Answer: B

**171. When power is supplied to the system then to maintain data with the life of battery, computer BIOS contains the following.**

- A. CMOS
- B. RAM
- C. DRAM
- D. CPU

Answer: A

**172. What is meant by the term RAM?**





- A. Memory which only be read
- B. Memory which both read and written
- C. Memory which is used for permanent storage
- D. Memory which can only be written

Answer: B

**173. \_\_\_\_\_ keys are present on the top row of the keyboard.**

- A. Function
- B. Type writer
- C. Numeric
- D. Navigation

Answer: A

**174. The device primarily used to provide hardcopy is the**

- A. CRT
- B. Computer Console
- C. Printer
- D. Card Reader

Answer: C

**175. Dot-matrix, Deskjet, Inkjet and Laser are all types of which computer peripherals?**

- A. Printers
- B. Software
- C. Monitors
- D. Keyboards

Answer: A

**176. Which among the device that converts computer output into a form that can be transmitted over a telephone line?**

- A. Teleport
- B. Multiplexer
- C. Concentrator
- D. Modem

Answer: D

**177. A light sensitive device that converts drawing, printed text or other images into digital form is**

- A. Keyboard
- B. Plotter



- C. Scanner
- D. OMR

Answer: C

**178. Set of programs which consist of full set of documentation is termed as**

- A. database packages
- B. file packages
- C. bus packages
- D. software packages

Answer: D

**179. Program which is used to control system performance is classified as**

- A. experimental program
- B. system program
- C. specialized program
- D. organized program

Answer: B

**180. Process is**

- A. program in High-level language kept on disk
- B. contents of main memory
- C. a program in execution
- D. a job in secondary memory

Answer: C

**181. Load address for the first word of the program is called**

- A. Linker address origin
- B. Load address origin
- C. Phase library
- D. Absolute library

Answer: B

**182. The statement that is false regarding FORTRAN is**

- A. It was developed for mathematical calculations
- B. Excessive internal documentation is required
- C. It is problem oriented
- D. It is the one of the oldest high level language



Answer: D

**183. Problem oriented language is**

- A. BASIC
- B. PL/1
- C. All of the above
- D. None of the above

Answer: C

**184. The language which is CPU dependent is**

- A. C
- B. Assembly
- C. All languages except Java
- D. None of the above

Answer: C

**185. The words that are set aside by the programming language for its own use is called**

- A. Control structures
- B. Control words
- C. Reserved words
- D. Reserved keys

Answer: B

**186. The algorithm in which we split  $m$  frames among  $n$  processes, to give everyone an equal share,  $m/n$  frames is known as \_\_\_\_\_**

- A. proportional allocation algorithm
- B. equal allocation algorithm
- C. split allocation algorithm
- D. none of the mentioned

Answer: B

**187. The algorithm in which we allocate memory to each process according to its size is known as \_\_\_\_\_**

- A. proportional allocation algorithm
- B. equal allocation algorithm
- C. split allocation algorithm
- D. none of the mentioned

Answer: A



**188. With either equal or proportional algorithm, a high priority process is treated \_\_\_\_\_ a low priority process.**

- A. greater than
- B. same as
- C. lesser than
- D. none of the mentioned

**Answer:** B

**189. \_\_\_\_\_ replacement allows a process to select a replacement frame from the set of all frames, even if the frame is currently allocated to some other process.**

- A. Local
- B. Universal
- C. Global
- D. Public

**Answer:** C

**190. The combination of two or more networks are called**

- A. Internetwork
- B. WAN
- C. MAN
- D. LAN

**Answer:** A

**191. Which topology covers security, robust and eliminating the traffic factor?**

- A. Mesh
- B. Ring
- C. Star
- D. Bus

**Answer:** A

**192. National Internet Service Provider (ISP) networks are connected to one another by private switching stations called**

- A. Network Access Points
- B. Peering Points
- C. National ISP
- D. Regional ISP

**Answer:** B



**193. Which of the following is not a method of accessing the web?**

- A. Modem
- B. CPU
- C. DSL
- D. ISDN

Answer: B

**194. MIME full form**

- A. Multipurpose Internet Mail Extension
- B. Multiple Internet Mail Extension
- C. Multipurpose Internal Mail Extension
- D. Multidimensional Internet Mail Extension

Answer: A

**195. What happens if you press Ctrl + Shift + F8?**

- A. It activates extended selection
- B. It activates the rectangular selection
- C. It selects the paragraph on which the insertion line is.
- D. None of These

Answer: B

**196. What is the shortcut key you can press to create a copyright symbol?**

- A. Ctrl + Shift + C
- B. Ctrl + C
- C. Alt + C
- D. Alt+Ctrl+C

Answer: D

**197.  $(170)_{10}$  is equivalent to**

- A.  $(FD)_{16}$
- B.  $(DF)_{16}$
- C.  $(AA)_{16}$
- D.  $(AF)_{16}$

Answer: C



**Explanation:** Hexadecimal equivalent of decimal number is obtained by dividing the number by 16 and collecting the remainders in reverse order.

$$16 \mid 170$$

$$16 \mid 10 - 10$$

$$\text{Hence, } (170)_{10} = (AA)_{16}$$

**198. Octal to binary conversion:  $(24)_8 = ?$**

- A.  $(111101)_2$
- B.  $(010100)_2$
- C.  $(111100)_2$
- D.  $(101010)_2$

**Answer:** B

**Explanation:** Each digit of the octal number is expressed in terms of group of 3 bits. Thus, the binary equivalent of the octal number is obtained.

$$(24)_8 = (010100)_2$$

**199. Message \_\_\_\_\_ means privacy**

- A. confidentiality
- B. integrity
- C. authentication
- D. none of the above

**Answer:** A

**200. Message \_\_\_\_\_ means exactly as sent**

- A. confidentiality
- B. integrity
- C. authentication
- D. none of the above

**Answer:** B





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