

IBPS PO MAINS



MODEL PAPER 1



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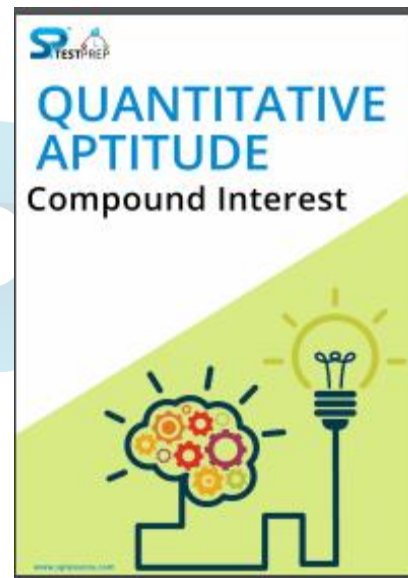
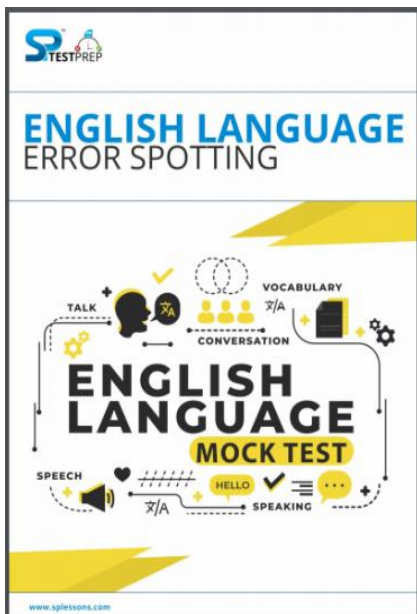
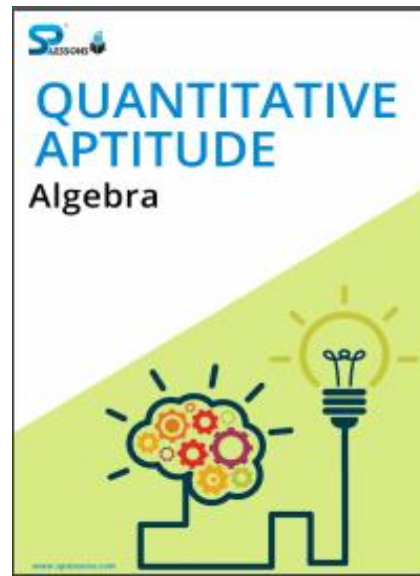
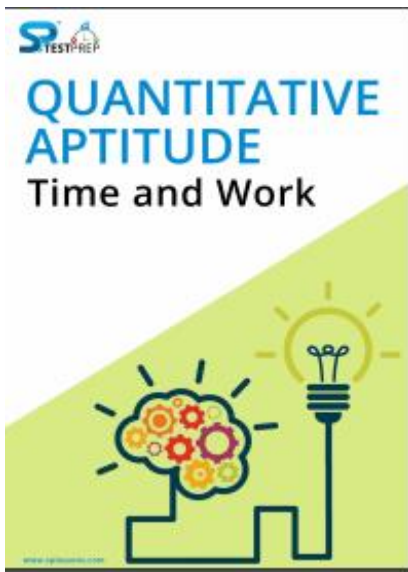
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Directions (1-3): Study the following information carefully and answer the below questions.

Seven friends Maya, Raman, Dev, Zoya, Raj, Abhi and Kavita went to book store and bought one book each viz. Malgudi Days (MD), Champak (CH), Lords of the Ring (LR), Harry Potter (HP), Ruskin Bond (RB), The Jungle Book (JB) and Panchtantra (PA) at Rs.60, 75, 80, 90, 105, 115 and 120. After reading the books each person sold his/her book at different price viz. Rs.60, 75, 80, 90, 105, 115 and 120. All the information are not necessary in same order. None of the book is sold at same price at which it was bought. Difference between purchase price and sold price is not less than Rs.10.

- Lords of the Ring was bought at Rs.105, but neither by Raman nor by Zoya. Malgudi Days was sold at Rs.25 more than the price at which Panchtantra was sold. The difference between purchase price and sold price of book bought by Maya is Rs.30.
- Harry potter was neither bought at Rs.60 nor bought by Maya. Malgudi Days was neither bought by Raj nor by Maya. Neither The Jungle Book nor the Harry Potter is sold at Rs.80.
- Zoya neither bought Panchtantra nor Champak. Kavita sold her book The Jungle Book at Rs.15 more than the price at which Zoya bought her book. The difference between sold price of Champak and purchase price of Lords of The Ring was same as the purchase price of Harry Potter and sold price of Malgudi Days.
- Abhi sold his book at Rs.75. Raj neither bought Chamapak nor Panchtantra, but bought the book at Rs.60. Dev neither bought Champak nor Panchtanta, but bought the book at Rs.80.

1. Which of the following book is sold at Rs.120?

- A. Malgudi Days
- B. Ruskin Bond
- C. Lords of the Ring
- D. Harry Potter
- E. None of these

Answer: B

Explanation:

Clearly, Ruskin Bond was sold at Rs.120.

Hence, option B is correct choice.

2. What is the difference between the purchase price of Malgudi Days and sold price of Abhi's book?

- A. 15
- B. 5
- C. 35



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- D. 20
- E. None of these

Answer: E

Explanation:

Clearly, RB – JB – MD – HP – LR – CH – PA, is the correct combination.

Hence, option E is correct choice.

3. Who among the following person purchase Lords of the Ring?

- A. Abhi
- B. Raj
- C. Dev
- D. Kavita
- E. None of these

Answer: B

Explanation:

Clearly, the difference between the purchase price of Malgudi Days and sold price of Abhi's book is 5.

Hence, option B is correct choice.

4. Which of the following people are sitting to the right of S? OTPQ

- A. OTPQ
- B. OTPR
- C. UNVM
- D. UOTPR

Answer: B

Explanation:

The arrangement of the persons is

Q W M V N U S O T P R

OTPR are sitting to the right of S.

5. Which of the following statements is true with respect to the above arrangement?

- A. There are three persons sitting between P and S
- B. W is between M and V.
- C. N is sitting between V and U



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D. S and O are neighbours sitting to the immediate right of T

Answer: C

Explanation:

The arrangement of the persons is

Q W M V N U S O T P R

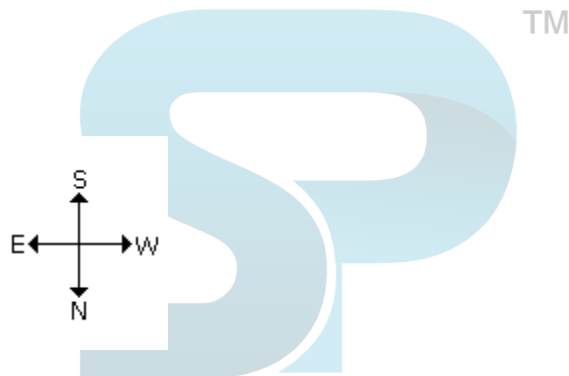
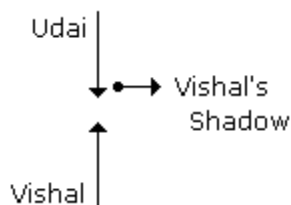
Hence N is sitting between V and U.

6. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?

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

Answer: C

Explanation:

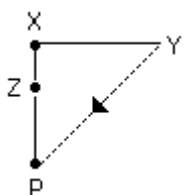


7. Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

- A. North
- B. South
- C. South-East
- D. None of these

Answer: C

Explanation:





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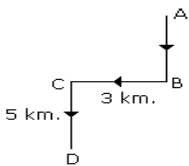
P is in South-West of Y.

8. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?

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

Answer: D

Explanation:



9. Pointing to a girl in the photograph, Ajay said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Ajay ?

- A. Mother
- B. Sister
- C. Aunt
- D. Grandmother

Answer: C

Explanation:

Only son of Ajay's mother's father -- Ajay's maternal uncle.

So, the girl's maternal uncle is Ajay's maternal uncle.

Thus, the girl's mother is Ajay's aunt.

10. 1. $A + B$ means A is the brother of B

2. $A \times B$ means A is the father of B

3. $A \div B$ means A is the mother of B

Which of the following would mean "G is the son of H"?

- A. $H \times I \times G$
- B. $H + G \times I$
- C. $H \div G \div I$
- D. $H \times G + I$



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Answer: D

Explanation:

Go by options.

We don't know the gender of I. So. We will not put any symbol on its side.

Now that you have understood the topic well and solved the above examples, you are ready to take the test on relations.

Directions [11 – 15]: In each of the questions below are given three statements, followed by conclusions: I, II, III, IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

11. Statements: Some Cats are Rats. All bats are tables. All Rats are Bats.

Conclusion:

I. Some Cats are bats

II. All bats are rats

III. All tables are cats

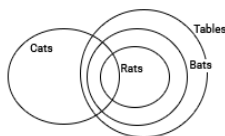
IV. All bats are cats

- A. Only I & II follow
- B. Only II follows
- C. Only I & IV follow
- D. None of these



Answer: D

Explanation:



12. Statements: Some ships are boats. All boats are submarines. Some submarines are yatches.

Conclusion:

I. Some yatches are boats.



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II. Some submarines are boats.

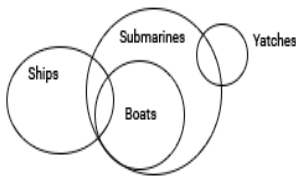
III. Some submarines are ships.

IV. Some yatches are ships

- A. All follow
- B. Only II and III follow
- C. Only III follows
- D. Only IV follows

Answer: D

Explanation:



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13. The total strength of the class is 90 and the number of girls is twice that of boys. Suraj is ranked 14th from the top. Suppose there are 10 girls ahead of Suraj. Find the number of boys after Suraj in the ranking order.

- A. 24
- B. 25
- C. 26
- D. 28

Answer: C

14. There are fifteen girls standing in a line facing North. Suman is standing at 11th position from the right side. Radhika is standing at 9th position from the left side. Mina is standing between Suman and Radhika. Find the number of girls standing to the right of Mina.

- A. 5 girls
- B. 6 girls
- C. 7 girls
- D. 8 girls



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Answer: D

15. In a certain code 'MISSIONS' is written as 'MSIISNOS'. How is 'ONLINE' written in that code?

- A. OLNNE
- B. ONILEN
- C. NOILEN
- D. LNOENI

Answer: A

Explanation:

First and last letter remain same. The others interchange their positions in pair of two. So, NL become LN IN become NI so code of ONLINE will be OLNNE

16. Which of the following combinations represent the first two and last two elements in the step V of the given input?

- A. 12, lemon and 36, exam
- B. 41, test and orange, 36
- C. lemon, 41 and 59, orange
- D. 12, lemon and orange, 36

Answer: A



17. Which element comes exactly between 85 and lake in Step III of the given input?

- A. yellow
- B. 59
- C. exam
- D. test

Answer: C

18. Which of the following element is fourth to the right of the one which is ninth from the right end in step V of the given input?

- A. yellow
- B. 36
- C. 12
- D. exam

Answer: A



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19. Statements: $A > B$, $B \geq C$, $C < D$

Conclusions:

I. $A > C$

II. $A = C$

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

Answer: A

Explanation:

Statements: $A > B$, $B \geq C$, $C < D$

Conclusions:

I. $A > C$ (true)

II. $A = C$ (false)

Only I is true

20. Statements: $P = E$, $Q \geq P$, $V < Q$

Conclusions:

I. $Q \leq E$

II. $E > V$

- 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:

Statements: $P = E$, $Q \geq P$, $V < Q$

Conclusions:

I. $Q \leq E$ (False)

II. $E > V$ (False)

Neither I nor II is true

21. Statements: $T \% I$, $I \# L$, $L \% U$

Conclusions:





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I. T \$ L

II. U \$ T

- 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:

Statements: T%I, I#L, L%U

T > I = L > U

Conclusions:

I. T \$ L $\hat{+}$ T < L (False)

II. U \$ T $\hat{+}$ U < T (True)

Hence, only conclusion II is definitely true.

22. How many numbers are there which is/are immediately preceded by a letter if all the vowels are dropped from the sequence after step 1?

- A. One
- B. Two
- C. Three
- D. Four

Answer: D

Explanation:

Sequence after step 1:

O 8 F # 4 @ M 2 E Q R T & 6 % * Z N S \$ 7 A

The new sequence after dropping all the vowels:

8 F # 4 @ M 2 Q R T & 6 % * Z N S \$ 7

Only one number is there which is immediately preceded by a letter.

Hence option A is correct.

23. How many symbols are to the the left of second vowel from right end in the sequence obtained after step 1?

- A. One
- B. Two
- C. Three
- D. Four

Answer: C



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Explanation:

From the following explanation it is clear that there are two symbols (@,#) to the left of second vowel from right end (E) in the sequence after step 1.

Hence option C is correct.

Sequence after step 1:

O 8 F # 4 @ M 2 E Q R T & 6 % * Z N S \$ 7 A

Sequence after step 2:

O 8 F # 4 @ M 7 2 E Q R T & 6 % * Z N S \$ A

24. What is the distance between point P and point Q?

Point R is 10 m west of point P and point S is 10 m north of point P.

Point Q is 10 m south-east of point R. Point S is 20 m north-west of point Q.

- A. If data in the statement I alone is sufficient to answer the question.
- B. If data in the statement II alone is sufficient to answer the question.
- C. If data either in the statement I alone or statement II alone are sufficient to answer the question.
- D. If data given in both I & II together are not sufficient to answer the question.

Answer: C

Explanation:

From I : No relation between points P and Q

From II : In this since we don't know the angles between sides of triangle forming with points PQS and PQR, PQ cannot be determined.

25. What is the average (arithmetic mean) of a, b, and c ?

(1) $a + 2b + 3c = 10$

(2) $3a + 2b + c = 14$

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: C

Explanation:

The average of a, b, and c is $\frac{a+b+c}{3}$. Statement (1) says that $a+2b+3c = 10$, but there is not enough information to determine the value of $a+b+c$. Thus, statement (1) alone is not sufficient. Similarly, the



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equation statement (2) also fails to give enough information, so statement (2) alone is not sufficient. If the equations in statements (1) and (2) are added together, term by term, the result is $4a+4b+4c=24$, which means that $a+b+c = 6$. The average is therefore $6/3 = 2$. Thus, BOTH statements TOGETHER are sufficient to answer the question. The best answer is C.

26. By what percent was the price of a certain candy bar increased?

(1) The price of the candy bar was increased by 5 cents.

(2) The price of the candy bar after the increase was 45 cents.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: C

Explanation:

In (1), only the increase in price is given, and both the original and final prices are unknown. Thus, the percent increase cannot be determined from (1) alone, and the answer must be B, C, or E. In (2), only the final price is given, so the percent increase cannot be determined from (2) alone, and the answer must be C or E. From (1) and (2) together, the amount of the increase is known and the price before the increase can be computed. Therefore, the percent increase can be determined, and the best answer is C

27. Is the integer n odd?

(1) n is divisible by 3.

(2) n is divisible by 5.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. Statements (1) and (2) TOGETHER are not sufficient.

Answer: D

Explanation:

In statement (1), n is divisible by 3, but n may be even or odd as the examples $n = 6$ and $n = 9$ show. Similarly, in statement (2), n is divisible by 5, but it may be even or odd as the examples $n = 10$ and $n = 15$ show. Since neither statement alone is sufficient, the answer must be C or E. From (1) and (2) together, n must be divisible by 15, and the examples $n = 30$ and $n = 45$ show that n may be even or odd. Thus, the best answer is D.



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28. A shirt and a pair of gloves cost a total of \$41.70. How much does the pair of gloves cost?

(1) The shirt costs twice as much as the gloves.

(2) The shirt costs \$27.80.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: D

Explanation:

From (1) it can be determined that the total cost of the shirt and gloves is three times the cost of the gloves alone; in other words, the gloves cost one third as much as the shirt and gloves together. Thus, (1) alone is sufficient, and the answer must be A or D. Since the cost of the gloves is the difference between the total cost, \$41.70, and the cost of the shirt, statement (2) alone is also sufficient. The best answer is therefore D.

29. Statement: "Please put more people on the job to make up for the delay."

Assumptions:

(I) Delay is inevitable in most jobs.

(II) Output will increase with more number of people on the job.

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

Answer: B

Explanation:

Assumption I is not implicit, even if based on your real life experiences, you may believe that delay is inevitable in most jobs. As per the statement, increasing the number of people will make up for the delay by increasing the output. So II is implicit. Thus, correct option is B.

30. Statement: If you are an engineer, we have a challenging job for you.

Assumptions:

(I) We need an engineer.

(II) You are an engineer.

- A. Only assumption I is implicit
- B. Only assumption II is implicit



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- C. Either I or II is implicit
- D. Neither I nor II is implicit

Answer: A

Explanation:

An engineer is needed, hence the advertisement. So assumption I is implicit. Assumption II is not implicit, even if the reader is an engineer. Hence the correct option is A.

31. The principle of modern computers was proposed by ____

- A. Steve Jobs
- B. Adam Osborne
- C. Alan Turing
- D. Charles Babbage

Answer: C

32. Who introduced the first computer form home use in 1981?

- A. IMB
- B. Apple
- C. Microsoft
- D. Sun Technology

Answer: A

33. Third generation computers used which programming language?

- A. Java
- B. Machine language
- C. FORTRAN
- D. C and C++

Answer: D

34. Storage which stores or retains data after power off is called-

- A. Volatile storage
- B. Non-volatile storage
- C. Sequential storage
- D. Direct storage



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Answer: B

35. A permanent memory, which holds data and instruction for start-up the computer and does not erase data after power off.

- A. Network interface card
- B. CPU
- C. RAM
- D. ROM

Answer: D

36. Which of the following memories must be refreshed many times per second?

- A. EPROM
- B. ROM
- C. Static RAM
- D. Dynamic RAM

Answer: D

37. USB-type storage device is -

- A. Secondary
- B. Axillary
- C. Tertiary
- D. Primary

Answer: A

38. These devices provide a means of communication between a computer and outer world.

- A. I/O
- B. Storage
- C. Compact
- D. Drivers

Answer: A

Explanation:

The I/O i.e. the input/output devices provide a means of communication between the computer and the outer world. They are often referred to as the peripheral devices sometimes.

39. What does GUI stand for?



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- 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.

40. 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.

41. This set of Computer Fundamentals Multiple Choice Questions & Answers (MCQs) focuses on "DBMS".

- A. Information
- B. Valuable information
- C. Database
- D. Metadata

Answer: C

Explanation:

Database is the collection of related data and its metadata organized in a structured format. It is designed for optimized information management.

42. DBMS manages the interaction between _____ and database.

- A. Users
- B. Clients
- C. End Users
- D. Stake Holders

Answer: C



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Explanation:

DBMS manages the interaction between the end users and the database. End users are the final users that interact with the database.

43. Which of the following is not involved in DBMS?

- A. End Users
- B. Data
- C. CApplication Request
- D. HTML

Answer: D

Explanation:

HTML isn't involved in Database Management System. Other things like the data and application request are a part of the DBMS.

44. Database is generally _____

- A. System-centered
- B. User-centered
- C. Company-centered
- D. Data-centered



Answer: C

Explanation:

Database is user-centered. The perspective is that the user is always right. If there is a problem with the use of the system, the system is the problem, not the user.

45. A characteristic of an entity.

- A. Relation
- B. Attribute
- C. Parameter
- D. Constraint

Answer: B

Explanation:



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An attribute is a characteristic of an entity. The association among the entities is described by the relationship.

46. Which is a fixed amount for a covered service in health sector ?

- A. Coinsurance
- B. Deductible
- C. Copy
- D. Health Insurance

Answer: C

Explanation:

A copayment or copay is a fixed amount for a covered service, paid by a patient to the insurance company before patient receives service from physician.

47. A deductible is usually mentioned in.

- A. Rupee
- B. Dollar
- C. Euro
- D. Any currency

Answer: D

Explanation:

A deductible is usually a fix dollar amount that you have to pay out of your own pocket before the insurance will cover the remaining eligible expenses

48. The amount of risk retained by an insurance company that is not re-insured is called

- A. Retention
- B. Uninsurable risk
- C. Insurable risk
- D. Reinsure

Answer: A

Explanation:

Retention is the amount of risk retained by an insurance company that is not re-insured.

49. The Coinsurance is specified by

- A. All of the below
- B. Equity
- C. Ratio
- D. Percentage

Answer: D



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Explanation:

Coinurance refers to money that an individual is required to pay for services, after a deductible has been paid. Coinsurance is often specified by a percentage.

50. In BCAR, C related with _____

- A. Capital
- B. Currency
- C. Customer
- D. Claim

Answer: A

Explanation:

Best's Capital Adequacy Relativity (BCAR) – This percentage measures a company's relative capital strength compared to its industry peer composite

51. _____ is a sum of money paid by an employer to an employee for services rendered in the company

- A. Pension
- B. Gratuity
- C. Salary
- D. Premium

Answer: B

Explanation:

Gratuity is a benefit payable under the Payment of Gratuity Act passed in the year 1972. Gratuity is a sum of money paid by an employer to an employee for services rendered in the company.

52. What is lapse in insurance ?

- A. Termination of an insurance policy due to the insured's failure to pay the premium.
- B. It is a policy that does not pay benefits to the beneficiary if the cause of death is an accident
- C. It is a policy that pays benefits to the beneficiary if any emergency occur
- D. Both 1 and 2

Answer: D

Explanation:

The term lapse refers to a "lapse in coverage", meaning the life insurance contract will no longer pay a death benefit or provide any insurance coverage for the insured person



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53. Mortality Charge is the amount charged _____ by the insurer

- A. Every month
- B. Every year.
- C. Every day
- D. Every 6 months

Answer: D

Explanation:

Mortality Charge is the amount charged every year by the insurer to provide the life cover to the policyholder on the life of the Life Insured. It can otherwise be called the Cost of Insurance.

54. _____ is an insurance product typically sold or issued by life insurance companies.

- A. Life term policy
- B. Life Insurance
- C. Life Annuity
- D. Term Insurance

Answer: C

Explanation:

A life annuity is an annuity, or series of payments at fixed intervals, paid while the purchaser (or annuitant) is alive. A life annuity is an insurance product typically sold or issued by life insurance companies.

55. What is TPA ?

- A. Third Party Administrators
- B. Third Power Administrators
- C. The Party Accelerators
- D. The Power Administrators

Answer: A

Explanation:

Third Party Administrators or TPAs are a vital link between health insurance companies, policyholders and health care providers

56. Which is the country outside India in which SBI has launched its first paperless banking?

- A. Bhutan
- B. Myanmar



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- C. Sri Lanka
- D. Nepal

Answer: D

57. What does money laundering mean?

- A. Converting money that is obtained illegally to make it appear that it originated from legitimate sources.
- B. Hiding income source to avoid income tax.
- C. Money acquired from undisclosed sources.
- D. Money acquired from criminal sources.

Answer: A

58. What is the duration of a savings account to be treated as a dormant account?

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

Answer: A

59. What is the time period for Long-term finance funds?

- A. Time exceeding 1 year
- B. None of the these
- C. Time exceeding 5 years
- D. Timeless than 4 years but greater than 1 year

Answer: C

60. In India, when did the regional rural banks start functioning?

- A. 1975
- B. 1947
- C. 1956
- D. 1957

Answer: A

61. Which of the following institutions can issue paper notes in India?

- A. Ministry of Finance
- B. Union Government
- C. Supreme Court
- D. Reserve Bank Of India

Answer: D

62. Which of the following is a Non-Banking Financial Company in India?



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- A. Kotak Mahindra Bank
- B. Punjab National Bank
- C. PNB Housing Finance Limited
- D. IDBI Bank

Answer: C

63. What is the minimum age at which a subscriber can join the Atal Pension Yojana?

- A. 25 years
- B. 22 years
- C. 18 years
- D. 15 years

Answer: C

64. What is the maximum age at which a subscriber can join the Atal Pension Yojana?

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

Answer: B

65. What is the annual premium payable by the subscriber to the Pradhan Mantri Jeevan Jyoti Bima Yojana?

- A. Rs. 210
- B. Rs. 330
- C. Rs. 450
- D. Rs. 510

Answer: B

66. Upto what age of the girl child can an account under the Sukanya Samriddhi Yojana be opened?

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

Answer: B

67. What is the insurance cover payable to the nominee on the death of the subscriber to the Pradhan Mantri Jeevan Jyoti Bima Yojana?



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- A. Rs. 50,000
- B. Rs. 1,00,000
- C. Rs. 1,50,000
- D. Rs. 2,00,000

Answer: D

68. Which State has been allocated the maximum number of cities under the Smart Cities Mission?

- A. Uttar Pradesh
- B. Maharashtra
- C. Tamil Nadu
- D. Gujarat

Answer: A

69. What is the animal in the logo of Make in India campaign?

- A. Tiger
- B. Lion
- C. Elephant
- D. Cow

Answer: B

70. What is the age group to whom the Pradhan Mantri Suraksha Bima Yojana is available?

- A. 18 to 40 years
- B. 18 to 50 years
- C. 18 to 60 years
- D. 18 to 70 years

Answer: D

71. Which country to host the 23rd edition of the World Congress on Information Technology (WCIT-2019)?

- A. Mexico
- B. Brazil
- C. Canada
- D. Armenia

Answer: D



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72. The Chandrapur Super Thermal Power Station (CSTPS) is located in which state?

- A. Maharashtra
- B. Madhya Pradesh
- C. Tamil Nadu
- D. Odisha

Answer: A

73. India has contributed how much amount of aid for rehabilitation work in cyclone-hit Tonga?

- A. \$2 million
- B. \$1.5 million
- C. \$1.0 million
- D. \$2.5 million

Answer: C

74. Billy Graham, the renowned Christian evangelist has passed away. He was related to which country?

- A. France
- B. United States
- C. United Kingdom
- D. South Africa

Answer: B

75. Suresh Seth, who passed away recently, was associated with which political party?

- A. Bahujan Samaj Party
- B. Bharatiya Janata Party
- C. Indian National Congress
- D. Nationalist Congress Party



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Answer: C

76. The India International Textiles Expo (IIT Expo) has started in which city?

- A. New Delhi
- B. Kathmandu
- C. Kolkata
- D. Colombo

Answer: B

77. What is the theme of the 2018 International Mother Language Day (IMLD)?

- A. Quality education, language(s) of instruction and learning outcomes
- B. Inclusion in and through education: Language counts
- C. Linguistic diversity and multilingualism count for sustainable development
- D. Towards Sustainable Futures through Multilingual Education

Answer: C

78. "The Argumentative Indian" is a book written by

- A. Amartya Sen.
- B. Khushwant Singh
- C. Chetan Bhagat
- D. None of these

Answer: A

79. Where is the International Organization, Association of South East Asian Nations (ASEAN) headquartered?

- A. Vienna
- B. Katmandu
- C. Jakarta
- D. None of these

Answer: C

80. Which among these is not a dance form?



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- A. Kathakali
- B. Kalaripayattu
- C. Kathak
- D. None of these

Answer: C

81. The Bhitarkanika National Park is located in which state?

- A. Madhya Pradesh
- B. Karnataka
- C. Odisha
- D. Haryana

Answer: C

82. Wular Lake is located in which state?

- A. Odisha
- B. Maharashtra
- C. Gujarat
- D. Jammu and Kashmir

Answer: D

83. The Kigali Waterfalls is situated in which of the following states?

- A. Kerala
- B. Andhra Pradesh
- C. Tamil Nadu
- D. Karnataka

Answer: B

84. The Henry Island Beach is situated in which state?

- A. Telangana
- B. Goa
- C. West Bengal
- D. Maharashtra

Answer: B

85. The Lloyd's Botanical Garden is located in the state of_____

- A. West Bengal
- B. Tripura



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- C. Jammu & Kashmir
- D. Haryana

Answer: A

Direction (Q.86-91):

We today revel in the idea that we are living in a world of science and science can work wonders for us. It is evident that science has revolutionized modern life. What our forefathers, half a century ago, could not even dream of, we have that on our beck and call. Electricity is a wonder and what it is doing would have appeared to be a fairy tale for our forefathers. A button is pressed, the room gets flooded with light; the fan moves, the A.C. Cools or warms the room, water is boiled or cooled even is frozen, eatables can be preserved for days. Human suffering has greatly been alleviated. Science has investigated into disease and found startling cures for them. Artificial limbs can be fitted into the disabled bodies, even kidneys, and hearts are being performed.

Machinery has eliminated human labor and made life more mechanical and less arduous. Means of communication- The fax, The E-mail, The mobile smart phones are really wonderful means given to us by science. The atomic energy it put to use for peaceful purpose can work wonders. We have begun to feel that life without the modern scientific gadgets is impossible.

True, that all this has happened and we fell beholden to science and the scientists. But there is the other side of the picture too. Man has become a slave to the machines. Human labour has been minimized but that has led to a more luxurious living and less of physical activity. Mankind has begun suffering from such elements which our hard-working fore-fathers never knew of, More and more use of machines has led to large scale unemployment. We are unnecessarily using chemicals for agriculture. The pesticides and germicides used in saving the crops are sending out such alarming signals as demolishing and dismantling the ozone layer which was protecting the earth from the evil effects of the Sun rays. The world is getting exposed to the situations of great alarms and dangers. GMOs are good for some crops and not so for others. Wild varieties can not be allowed to go extinct. The atomic energy is being used for destructive purposes and the nuclear explosions are causing radiations which are fatal for mankind. Can we ever forget what happened to Nagasaki and Hiroshima in Japan during the World War II ? Do we want to live under such further threats of large-scale devastation and destruction?

Therefore, what is necessary is that we may use science as our slave-take the utmost advantage from it but should not permit it to become our master. We have to keep the 'genie' under our control, use it for the good of mankind; cure disease with its helps explore treasures of this earth through it; communicate with one-another at the quickest pace but keep its dangerous uses under check.

Let science remain our 'slave' and not allow it to become our master. Let science like alladin's 'genie' remain in Alladin's controlling power not to overpower and be a menace to mankind.....

Refer the above for the Questions

86. The word 'mindset' here means



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- A. a determined mind
- B. a (fixed) attitude of mind
- C. an open mind
- D. mindful

Answer: B

87. The course promoters' attitude is

- A. self-righteous
- B. indifferent
- C. easy-going
- D. unprogressive

Answer: D

88. The 'writer's attitude, as reflected in the passage, is

- A. Critical
- B. ironic
- C. sympathetic
- D. philosophical

Answer: A

89. What is the passage about ?

- A. personal management
- B. development dilemma
- C. management courses
- D. course promoters' attitude

Answer: C

Directions (Q.90-95) In the passage given below there are 10 blanks. Every blank has four alternative words or Sentences given in options (1),(2),(3) and (4). You have to tell which word will best suit the respective blank. Mark (5) as your answer if no change is required i.e "No change required".

The costs of unemployment to the individual are not hard to imagine. When a person loses his or her job, there is often an _____(90) impact to that person's standard of living. Prior to the Great Recession, the average savings rate in the U.S. had been drifting down towards zero (and sometimes below), and there are anecdotal reports that the average person is only a few weeks away from serious financial trouble without a paying job. Even for those _____(91) for unemployment benefits and other forms of government assistance, it is often the case that these benefits replace 50% or less of their regular income. That means these people are consuming far less than usual.



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However, the economic consequences can go beyond just less consumption. Many people will turn to retirement savings in a pinch, and draining these savings has long-term _____(92) . Prolonged unemployment can lead to an erosion of skills, basically robbing the economy of otherwise useful talents. At the same time, the experience of unemployment (either direct or indirect) can alter how workers plan for their futures — prolonged unemployment can lead to greater skepticism and pessimism about the value of education and training and lead to workers being less willing to invest in the long years of training some jobs require. On a similar note, the absence of income created by unemployment can force families to deny educational opportunities to their children and _____(93) the economy of those future skills. Last but not least, there are other costs to the individual. Studies have shown that prolonged unemployment harms the mental health of workers and can actually _____(94) physical health and shorten lifespans.

90.

- A. urgent
- B. immediate
- C. critical
- D. currently

Answer: B



91.

- A. Eligible
- B. justified
- C. permitted
- D. seemly

Answer: A

92.

- A. development
- B. ramifications
- C. effect
- D. Manifestations

Answer: B

93.

- A. Disintegration
- B. Destruction
- C. Crumbling
- D. Erosion

Answer: B



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94.

- A. wane
- B. impair
- C. worsen
- D. decline

Answer: C

95. The BCCI's elbow room has shrunk, and it is expected that the chastised board will toe the line, though this has time till October 6 to file a reply in the Supreme Court.

- A. though it have time till
- B. though this have time until
- C. though it has time till
- D. though it has time until

Answer: C

96. The Chinese hold lapsed on Monday, and have it not raised an objection, the resolution designating Azhar a terrorist would have been passed automatically.

- A. have it not raise an objection
- B. had this not raised an objection
- C. had it not raised an objection
- D. has it not raised an objection

Answer: C

97. We are hoping that over the next quarter or two, keeping in mind that the government has also reduce the small savings rate, that the MCLR calculation will now throw up more transmission.

- A. have also reduced the small savings
- B. have also reduce the small saving
- C. has also reduced the small savings
- D. has also reduced the small savings

Answer: D

98. The manager called the clerk and said whether he was in the habit of sleeping at home as well.

- A. calls the clerk and says if
- B. called the clerk and asked whether
- C. called the clerk and said if
- D. call the clerk and ask whether



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Answer: B

Directions (Q.99-104) In the mentioned questions , a paragraph is given. Fill the blank with the correct sentence from the options.

99. One of the most noteworthy characteristics of the modern workplace is 'remote working'. Many organisations today allow employees to connect remotely or from their home, enabling flexibility, freedom and even a better quality of living and working. _____ . Video calls, collaboration and communication apps are all common and make it possible for teams in different locations and time zones to come together.

- A. Reduced commuting and less stress, and the ability to balance their lives and work better.
- B. Along with the advantages remote working brings with it, there are a few hiccups, which both employers and employees grapple with.
- C. Technology has made remote working much easier.
- D. For many professionals, this translates into not having to move from their city for the sake of a job.

Answer: C

TM

100. Cities are truly the engines of growth today that needs a holistic approach. To meet the overarching aspirations of growing urban population and sustain a virtuous cycle of growth and development, development of Smart Cities has become crucial. _____ . The Smart Cities Mission is meant to set examples that can be replicated both within and outside the Smart City, catalyzing the creation of similar Smart Cities in various regions and parts of the country.

- A. The idea is to look at compact areas, create a replicable model that will act like a light house to other aspiring cities.
- B. It will be a blueprint for the city in terms of social infrastructure too.
- C. This calls for local spatial planning.
- D. However, the Smart Cities Mission calls for appropriate local spatial development plans. Comprehensive development in this way will improve quality of life.

Answer: A

101. Climate change is going to have interesting implications on infrastructure sector. Concrete have a lower albedo; in other words, they absorb a very high percentage of the incoming radiation. _____. The architectural fallacy of using glass along the exterior of high rise buildings in tropical countries like India, are creating a kind of greenhouse effect, which are not very efficient in terms of energy consumption.

- A. With the summer getting warmer, the energy requirement for artificial cooling will see a rapid increase.
- B. The big cities are therefore termed as 'heat island'.
- C. With proper architectural interventions, our infrastructures can be made more sustainable



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- D. Utilising materials, which can reflect back the heat, rather than trapping it, would be the way forward.

Answer: B

102. Assessment is extremely important, but it should happen continuously using a wide range of tools to gauge the varied strengths and skills of individual students. Class participation, presentations, essays, spot quizzes, interviews, peer assessment and assignments should all contribute to the final report. There are many vital intangibles that cannot be tested or measured._____. Only creative, innovative and urgent intervention to develop meaningful and humane ways of assessing school students will stop damaging their natural talents and nurture them instead

- A. Let not one single mass examination determine the future of a child.
- B. The grading system in examinations has reduced the scoring pressure of students.
- C. All said and done, our examination system is an unmitigated disaster and our approach to educational reform has been somewhat erratic.
- D. None of these

Answer: A

103. Interviewers do not measure knowledge in marks. _____. Scoring 75% or 100% in an exam is irrelevant in an interview if you cannot answer questions on the subject. Besides subject knowledge, there is another kind of knowledge which matters in interviews. Every interviewer assesses our personality as we answer questions. Our attitude is what finally gets the job.

- A. Attitude is the third and perhaps the most important quality needed in winning a job.
- B. That is the knowledge about the organisation you have applied to.
- C. Marks count only in exams.
- D. The second quality that organisations look for is the skills needed to do the job well.

Answer: C

104. _____. In the urban centres, crowd jostles for space, and the development of housing cannot keep pace with the rate of the influx, resulting in proliferation of slums. Lack of access to sanitation, water, drainage and other basic necessities leads to diseases and occasional spread of epidemics.

- A. Everyone knows what disastrous consequences have emerged from the present expansion of population.
 - B. Resources are needed for launching and implementing effective programmes.
 - C. Expansion of population is leading to scarcity of food and potable water, and it causes enormous migration from rural areas to towns and cities.
 - D. No agency, either at the centre or state comes forward with a positive declaration.
5. Continuing and unchecked growth of population is the most urgent problem.



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Answer: C

105. I: The main thing that propelled the development of the aeroplanes at such a fast pace was, however, the first and the second world war.

II: An aeroplane was a wonderful invention of its time.

III: But its use as a main means of transport was adopted later only done later.

IV: Some even say that it was one of the greatest inventions of all time.

The correct order of the sentences is:

A. I – II – IV – III

B. II – IV – III – I

C. III – IV – II – I

D. IV – II – III – I

Answer: B

Explanation:

II – IV – III – I. As you can see the topic sentence introduces the aeroplanes as the greatest invention. Now will follow the topic sentences which are IV and II. The I sentence summarises the thought presented in the paragraph.

DIRECTIONS (106-107): The author dedicates this work to the thousands of sympathetic and well-wishing friends of the Negro race. He is trying to show how the Negro problem can be solved in peace and goodwill rather than by brutality. His idea is that the Golden Rule furnishes the only solution. He believes that at the bottom of southern society there is a vein of sympathy and helpfulness for the Negro and that this feeling should be cultivated and nourished that it may grow stronger and finally supplant harsher sentiments.

There are two factions striving for the mastery of the south to-day, one seeking political power on the idea that Negro manhood is to be crushed and serfdom established, and the other willing that the Negro should have a freeman's chance and work out his destiny as best he can with the powers God has given him. This faction is ready to give its sympathy and help, and it is the efforts of this class that the author desires to endorse and encourage.

The story weaved into the work is subordinate to the discussion of facts, and not paramount; it is intended to be mild, thus putting it in keeping with the character of the heroine whose deeds it portrays; and should the day ever come when America can rise to the height of adopting and following her sentiments, it will then indeed be the "Sweet land of liberty," for the black as well as the white man.

106. The passage is about a



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- A. Book
- B. Person
- C. Work of art
- D. Race

Answer: B

Explanation:

The passage begins with the mention of an author. If you read the passage further, it mentions the trials and tribulations of a particular race. The passage also talks about a book. At this point, you will notice that almost all the options that are present, find a mention in the paragraph. But the main topic of the passage is the one in the topic sentence i.e. it is a passage from a book.

107. Of the following options, which one will you say best describes the author of the passage?

- A. The author of this passage believes that African-Americans were always treated equally in the American society.
- B. African-American people were well represented in the American society since the beginning of the civil rights moment.
- C. America needs to adopt a social setup that is similar to sentiments of the heroine of the play to be truly free and fair.
- D. America needs to declare its society free for all and establish an equality before the law for all its citizens, irrespective of colour and creed.

Answer: B

Explanation:

Although a few options are logically correct, they are not the correct option here. By this, even option D) is fair, but it is not mentioned in the passage and thus can't be the correct option. Similarly, option A) and B) are factually incorrect as nothing of this sort is mentioned by the author in the passage.

108. Vineet pulled a long face when he was taken to task by his teacher for his carelessness.

- I. showed arrogance
- II. looked disappointed
- III. mocked him

- A. I,III
- B. II,III
- C. II



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D. I,III

Answer: C

Explanation:

Pull a long face – to look sad, disappointed

109. We were kept on tenterhooks for hours while the judges chose the winner.

I. waiting nervously

II. in suspense

III. kept in dark

A. I,II

B. II,III

C. I,III

D. I

Answer: A

Explanation:

On tenterhooks – waiting nervously/anxiously for a result/ in anticipation for something eventful

110. Despite all the goodies that participants get , I am not going for the competition.

I. gunning for

II. competing in

III. taking part in

A. II

B. I,II

C. II,III

D. III

Answer: C

111. After 14 years living and working in this country, she thinks it's time to call it a day.

I. to concede defeat

II. to recapitulate

III. to give up hope

A. III

B. I,III

C. II,III

D. None of these

Answer: A

Explanation:



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To call it a day – to stop what you are doing because you do not want to do any more or think you have done enough

112. 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

113. 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

114. 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

115. In the 1960's the government committees set out to change the condition of the marginalized sections of the society. As a result, numerous affirmative action schemes were announced. _____. Perhaps the problems are too intricate to be solved by a scheme. We need to change the way people think and behave.

- A. These schemes were very successful.
- B. These schemes worked on a very limited level.
- C. It is a shame that none of it has been able to abolish the marginalisation from the society.
- D. The schemes were not made for the rich and the affluent but for the poor and the needy.

Answer: C

Explanation:



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It is a shame that none of it has been able to abolish the marginalisation from the society. Let us see how. Before the blank, we see that a number of schemes were announced. After the blank, we get a picture that these schemes didn't work and we need to do something more. Thus we cancel A) and D) are immediate. Also, the option B0 talks of a limited scope of action while as our paragraph states that the schemes failed entirely. So the correct option is C).

116. "No, no, he found it. Its owner is unknown. I beg that you will look upon it not as a battered billycock but as an _____ (1) problem. And, first, as to how it came here. It arrived upon Christmas morning, in company with a good fat goose, which is, I have no doubt, _____ (2) at this moment in front of Peterson's fire. The facts are these: about four o'clock on Christmas morning, Peterson, who, as you know, is a very honest fellow, was returning from some small jollification and was making his way homeward down Tottenham Court Road."

- A. intellectual (1), roasting (2)
- B. serious (1), dancing (2)
- C. intelligent (1), cooking (2)
- D. unpleasant (1), pecking (2)

Answer: D

Explanation:

Let us see the first filler. When reading the sentence, we see that there is a hint word "but" after battered billycock. This means that whatever goes in the blanks must be opposite in meaning to battered billycock. Also, the use of the article "an" rules out the option B). A billycock means a British feather hat, a battered billycock thus means a hat that has been overused or damaged. This phrase is for something that is unpleasant. This rules out option D).

Directions (Q.117-119): Given below are six sentences (A) (B) (C) (D) (E) and (F). Answer the following questions after rearranging the following sentences into a coherent paragraph.

- A. Copyright, one of the forms of intellectual property law, offers exclusive rights for protecting the authorship of original & creative work like dramatic, musical and literary in nature.
- B. In general, the intellectual property law offers exclusionary rights to the creator or inventor against any misappropriation or use of work without his/her prior knowledge. Intellectual property law establishes equilibrium by granting rights for limited duration of time.
- C. Intellectual property right is a legal concept that confers rights to owners and creators of the work, for their intellectual creativity. Such rights can be granted for areas related to literature, music, invention etc, which are used in the business practices.
- D. However, certificate of copyright registration and entries made serve as the prima facie evidence, at the time of any dispute, in the court and is helpful in resolving conflicts of interests.
- E. Being a copyrighted item does not mean that other person can't use or write on subject matter of particular item. For example, if a person has written on a new motor cycle and he has copyrighted his article then it means that other person can't use that article but he is free to write his thoughts on



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the similar motorcycle.
F. It aims to protect the work of creator, transformed in a tangible form of expression. It includes artwork, plays, movies, shows, various types of music, sound and songs, books, manuscripts, written work and all types of images, photos, pictures, drawings and graphics.

117. Considering statement (F) "It aims to protect the work of creator, transformed in a tangible form of expression. It includes artwork, plays, movies, shows, various types of music, sound and songs, books, manuscripts, written work and all types of images, photos, pictures, drawings and graphics." as the fourth statement, then which of the following becomes the SECOND statement?

- A. A
- B. E
- C. B
- D. D

Answer: B

118. Considering statement (F) "It aims to protect the work of creator, transformed in a tangible form of expression. It includes artwork, plays, movies, shows, various types of music, sound and songs, books, manuscripts, written work and all types of images, photos, pictures, drawings and graphics." as the fourth statement, then which of the following becomes the FIFTH statement?

- A. B
- B. C
- C. D
- D. E

Answer: D

119. Considering statement (F) "It aims to protect the work of creator, transformed in a tangible form of expression. It includes artwork, plays, movies, shows, various types of music, sound and songs, books, manuscripts, written work and all types of images, photos, pictures, drawings and graphics." as the fourth statement, then which of the following becomes the FIRST statement?

- A. A
- B. E
- C. F
- D. C

Answer: C

120. For all the years mentioned what is the average of the exports?

- A. 110



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- B. 120
- C. 125
- D. 130

Answer: C

Explanation:

Here from the figure the average of the exports will be: $(60 + 110 + 120 + 120 + 150 + 190) / 6 = 125$.
So the correct answer is C.

121. In how many years does the export as well as import increases as compared to the previous years. And among them, in how many years was the percentage increase in export was greater than the percentage increase in imports

- A. 0
- B. 1
- C. 2
- D. 4

Answer: C

Explanation:



Out of all the years given in the figure, the imports and exports as compared to the previous are increased in every year except 2000 and 2003. Out of the four in which imports and exports have increased, in no year does the percentage increase in export is greater than the percentage increase in imports. Thus the correct answer is A.

122. Find the nature of the roots of the given equation: $x^2 + 2x + 3 = 0$.

- A. Rational and equal
- B. Equal
- C. Imaginary
- D. Irrational

Answer: C



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123. If alpha and beta are the roots of the equation $x^2 - 9x + 14 = 0$ then find the value of $A^2 + B^2$.

- A. 25
- B. 28
- C. 53
- D. 81

Answer: C

124. If the roots of the equation are -3 and -8, then which of the following is that equation?

- A. $x^2 + 11x + 24 = 0$
- B. $x^2 - 11x - 24 = 0$
- C. $x^2 - 11x + 24 = 0$
- D. $x^2 + 11x - 24 = 0$

Answer: A

125. What will be the sum of the roots of the equation $35x^2 - 2x + 1 = 0$

- A. $1/35$
- B. $69/35$
- C. $2/35$
- D. $-1/35$

Answer: D

126. Look at this series: 2, 1, $(1/2)$, $(1/4)$, ... What number should come next?

- A. $(1/3)$
- B. $(1/8)$
- C. $(2/8)$
- D. $(1/16)$

Answer: B



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Explanation:

This is a simple division series; each number is one-half of the previous number.

In other terms to say, the number is divided by 2 successively to get the next result.

$$4/2 = 2$$

$$2/2 = 1$$

$$1/2 = 1/2$$

$$(1/2)/2 = 1/4$$

$$(1/4)/2 = 1/8 \text{ and so on.}$$

127. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

- A. 7
- B. 10
- C. 12
- D. 13

Answer: B

Explanation:

This is a simple alternating addition and subtraction series. In the first pattern, 3 is added; in the second, 2 is subtracted.

128. Look at this series: 36, 34, 30, 28, 24, ... What number should come next?

- A. 20
- B. 22
- C. 23
- D. 26

Answer: B

Explanation:

This is an alternating number subtraction series. First, 2 is subtracted, then 4, then 2, and so on

129. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?

- A. 22



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- B. 24
- C. 25
- D. 26

Answer: C

Explanation:

In this simple alternating subtraction and addition series; 1 is subtracted, then 2 is added, and so on.

130. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?

- A. 12
- B. 14
- C. 27
- D. 53

Answer: B

Explanation:

In this series, each number is repeated, then 13 is subtracted to arrive at the next number.

131. What value will replace the question mark in the following equation?

$$4(1/2) + 3(1/6) + ? + 2(1/3) = 13(2/5).$$

- A. $3(2/5)$
- B. $3(3/5)$
- C. $2(1/2)$
- D. Data not sufficient

Answer: B

Explanation:

Let 'x' be the missing fraction. We will have: $9/2 + 19/6 + x + 7/3 = 67/5$.

Then, $x = 67 - [(9/2) + (19/6) + (7/3)]$. Using the BODMAS or the PEMDAS rule, we can write that: $x = 67/5 - [(27 + 19 = 46)/6] = [(67/5) - (60/6)]$.

In other words we can write: $x = [67/5 - 10] = 17/5 = 3(2/5)$. Hence the missing fraction is $3(2/5)$ and the correct option is A) $3(2/5)$.

132. Simplify the following: $b - [b - (a + b) - \{b - (b - (a - b))\} + 2a]$



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- A. $4a$
- B. $6a$
- C. $8a$
- D. $10a$

Answer: B

Explanation:

Let us rewrite the expression as $b - [b - (a+b) - \{b - (b - a + b)\} + 2a]$.

Which gives $= b - [b - a - b - \{b - 2b + a\} + 2a]$

We can write it as: $b - [-a - \{b - 2b + a + 2a\}]$ or $b - [-a - \{-b + 3a\}] = b - [-a + b - 3a]$

In other words we have: $b - [-4a + b] = b + 4a - b = 4a$.

133. What is the average (arithmetic mean) of a , b , and c ?

(1) $a + 2b + 3c = 10$

(2) $3a + 2b + c = 14$

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: C

Explanation:

The average of a , b , and c is $a+b+c/3$. Statement (1) says that $a+2b+3c = 10$, but there is not enough information to determine the value of $a+b+c$. Thus, statement (1) alone is not sufficient. Similarly, the equation statement (2) also fails to give enough information, so statement (2) alone is not sufficient. If the equations in statements (1) and (2) are added together, term by term, the result is $4a+4b+4c=24$, which means that $a+b+c = 6$. The average is therefore $6/3 = 2$. Thus, BOTH statements TOGETHER are sufficient to answer the question. The best answer is C.

134. By what percent was the price of a certain candy bar increased?

(1) The price of the candy bar was increased by 5 cents.

(2) The price of the candy bar after the increase was 45 cents.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.



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D. EACH statement ALONE is sufficient.

Answer: C

Explanation:

In (1), only the increase in price is given, and both the original and final prices are unknown. Thus, the percent increase cannot be determined from (1) alone, and the answer must be B, C, or E. In (2), only the final price is given, so the percent increase cannot be determined from (2) alone, and the answer must be C or E. From (1) and (2) together, the amount of the increase is known and the price before the increase can be computed. Therefore, the percent increase can be determined, and the best answer is C.

135. Is the integer n odd?

(1) n is divisible by 3.

(2) n is divisible by 5.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. Statements (1) and (2) TOGETHER are not sufficient.

Answer: D

Explanation:

In statement (1), n is divisible by 3, but n may be even or odd as the examples $n = 6$ and $n = 9$ show. Similarly, in statement (2), n is divisible by 5, but it may be even or odd as the examples $n = 10$ and $n = 15$ show. Since neither statement alone is sufficient, the answer must be C or E. From (1) and (2) together, n must be divisible by 15, and the examples $n = 30$ and $n = 45$ show that n may be even or odd. Thus, the best answer is E.

136. A shirt and a pair of gloves cost a total of \$41.70. How much does the pair of gloves cost?

(1) The shirt costs twice as much as the gloves.

(2) The shirt costs \$27.80.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: D

Explanation:



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From (1) it can be determined that the total cost of the shirt and gloves is three times the cost of the gloves alone; in other words, the gloves cost one third as much as the shirt and gloves together. Thus, (1) alone is sufficient, and the answer must be A or D. Since the cost of the gloves is the difference between the total cost, \$41.70, and the cost of the shirt, statement (2) alone is also sufficient. The best answer is therefore D.

137. If on a fishing trip Jim and Tom each caught some fish, which one caught more fish?

(1) Jim caught $\frac{2}{3}$ as many fish as Tom.

(2) After Tom stopped fishing, Jim continued to fish until he caught 12 fish.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: A

Explanation:

Statement (1) indicates that Jim caught fewer fish than Tom. Therefore, (1) alone is sufficient to answer the question, and the answer must be A or D. Statement (2) gives no information about the number of fish Tom caught. Therefore, (2) alone is not sufficient. And the best answer is A.

138. From May 1, 1960 to May 1, 1975 the closing price of a share of stock X doubled. What was the closing price of a share of stock X on May 1, 1960?

(1) From May 1, 1975, to May 1, 1984, the closing price of a share of stock X doubled.

(2) From May 1, 1975, to May 1, 1984, the closing price of a share of stock X increased by \$4.50.

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- D. EACH statement ALONE is sufficient.

Answer: C

Explanation:

Neither statement (1) alone nor statement (2) alone gives any information about the price from 1960 to 1975. Thus, the answer must be C or E. From statements (1) and (2) together, the closing price of a share of the stock on May 1, 1975, can be determined (\$4.50) and the closing price on May 1, 1960, can be determined (half of \$4.50). Therefore, (1) and (2) together are sufficient, and the best answer is C



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139. If r and s are integers, is r divisible by 7?

- (1) The product rs is divisible by 7.**
- (2) s is not divisible by 7.**

- A. Statement (1) ALONE is sufficient but statement (2) ALONE is not sufficient.**
- B. Statement (2) ALONE is sufficient but statement (1) ALONE is not sufficient.**
- C. BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.**
- D. EACH statement ALONE is sufficient.**

Answer: C

Explanation:

If a product rs is divisible by the prime number 7, then either r is divisible by 7 or s is divisible by 7. Hence, statement (1) alone implies that either r or s is divisible by 7, but it is not sufficient to determine that r is divisible by 7. Therefore, the answer must be B, C, or E. Statement (2) alone is clearly not sufficient, since no information is given about r. Hence, the answer must be C or E. The two statements together are sufficient: If rs is divisible by 7 and s is not divisible by 7, then r is divisible by 7. Thus, the best answer is C.

140. A mixture contains milk and water in the ratio 5 : 3. If 20 litres of water added to the mixture, the ratio of milk and water becomes 3 : 2. Find the quantity of milk in the original mixture.

- A. 320 litres**
- B. 280 litres**
- C. 300 litres**
- D. 250 litres**

Answer: C

Explanation:

Let the quantity of milk and water in the mixture is 5x and 3x litres.

According to the question

$$\frac{5x}{3x + 20} = \frac{3}{2}$$

$$\Rightarrow 10x = 9x + 60$$

$$\Rightarrow x = 60$$

Quantity of milk in the original mixture = 5x = 5 × 60 = 300 litres.



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Hence, option C is correct.

141. One filling pipe P is three times faster than another filling pipe Q, if P can fill tank in 24 hours, then what is the time taken to completely fill the tank if both the pipes are opened together?

- A. 12 hours
- B. 18 hours
- C. 16 hours
- D. 14 hours

Answer: B

Explanation:

Let the required time taken = t hours

Let efficiency of pipe Q = x

Then, efficiency of pipe P = $3x$

According to the question:

$$3x \times 24 = (3x + x) \times t$$

$$\Rightarrow \frac{72x}{4x} = t$$

$$\Rightarrow t = 18 \text{ hours}$$



Hence, option B is correct.

142. A truck is moving on the road. It makes 3000 revolutions in moving 3.96 km. What is diameter of the wheel of the truck?

- A. 21 cm.
- B. 14 cm.
- C. 42 cm.
- D. 28 cm.

Answer: C

Explanation:

Circumference of the wheel = $2\pi r$

Revolutions $\times 2\pi r$ = distance

$$3000 \times 2 \times 22 \times r \div 7 = 396000$$

$$r = 21 \text{ cm.}$$



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Diameter = $21 \times 2 = 42$ cm.
Hence, option C is correct.

143. Simple interest on a certain sum at the rate of 8% per annum after three years will be Rs.14400. Find the compound interest on that sum at the rate of 12% per annum after 2 years.

- A. Rs. 15264
- B. Rs. 13464
- C. Rs.. 10024
- D. Rs. 13456

Answer: A

Explanation:

Let the sum = Rs. P

$$\frac{P \times r \times t}{100} = SI$$

$$\Rightarrow \frac{P \times 8 \times 3}{100} = 14400$$

$$\Rightarrow P = \frac{1440000}{24}$$

$$\Rightarrow P = \text{Rs. } 60000$$

$$\text{Reqd. CI} = 60000 \times \frac{112}{100} \times \frac{112}{100} - 60000$$

$$= \text{Rs. } (75264 - 60000) = \text{Rs. } 15264$$

Hence, option A is correct.

144. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.

- A. 4
- B. 7
- C. 9
- D. 13





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Answer: A

Explanation:

Required number = H.C.F. of $(91 - 43)$, $(183 - 91)$ and $(183 - 43)$ = H.C.F. of 48, 92 and 140 = 4.

145. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- A. 276
- B. 299
- C. 322
- D. 345

Answer: D

Explanation:

Clearly, the numbers are (23×13) and (23×14) .

Larger number = $(23 \times 14) = 322$.

146. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together ?

- A. 4
- B. 10
- C. 15
- D. 16

Answer: D

Explanation:

L.C.M. of 2, 4, 6, 8, 10, 12 is 120.

So, the bells will toll together after every 120 seconds (2 minutes).

In 30 minutes, they will toll together $30 \div 2 + 1 = 16$ times.

147. Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case. Then sum of the digits in N is:

- A. 4
- B. 5
- C. 6
- D. 8

Answer: D



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Explanation:

$N = \text{H.C.F. of } (4665 - 1305), (6905 - 4665) \text{ and } (6905 - 1305) = \text{H.C.F. of } 3360, 2240 \text{ and } 5600 = 1120.$

Sum of digits in $N = (1 + 1 + 2 + 0) = 4$

148. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:

- A. 9000
- B. 9400
- C. 9600
- D. 9800

Answer: C

Explanation:

Greatest number of 4-digits is 9999.

L.C.M. of 15, 25, 40 and 75 is 600.

On dividing 9999 by 600, the remainder is 399.

Required number $(9999 - 399) = 9600.$

149. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

- A. 15
- B. 16
- C. 18
- D. 25

Answer: C

Explanation:

Let C.P. of each article be Re. 1 C.P. of x articles = Rs. x.

S.P. of x articles = Rs. 20.

Profit = Rs. $(20 - x).$

$$20 - x \times 100 = 25x$$

$$2000 - 100x = 25x$$

$$125x = 2000$$



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$$x = 16.$$

150. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:

- A. 101
- B. 107
- C. 111
- D. 185

Answer: C

Explanation:

Let the numbers be $37a$ and $37b$.

$$\text{Then, } 37a \times 37b = 4107$$

$$ab = 3.$$

Now, co-primes with product 3 are (1, 3).

So, the required numbers are $(37 \times 1, 37 \times 3)$ i.e., (37, 111).

Greater number = 111.

151. The G.C.D. of 1.08, 0.36 and 0.9 is:

- A. 0.03
- B. 0.9
- C. 0.18
- D. 0.108

Answer: C

Explanation:

Given numbers are 1.08, 0.36 and 0.90. H.C.F. of 108, 36 and 90 is 18,

H.C.F. of given numbers = 0.18.

152. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

- A. 360
- B. 480
- C. 720
- D. 5040



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Answer: C

Explanation:

The word 'LEADING' has 7 different letters.

When the vowels EAI are always together, they can be supposed to form one letter.

Then, we have to arrange the letters LNDG (EAI).

Now, 5 ($4 + 1 = 5$) letters can be arranged in $5! = 120$ ways.

The vowels (EAI) can be arranged among themselves in $3! = 6$ ways.

Required number of ways = $(120 \times 6) = 720$.

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

- A. 810
- B. 1440
- C. 2880
- D. 50400

Answer: C

Explanation:

In the word 'CORPORATION', we treat the vowels OOAIO as one letter.

Thus, we have CRPRTN (OOAIO).

This has 7 ($6 + 1$) letters of which R occurs 2 times and the rest are different.

Number of ways arranging these letters = $7! = 2520$.

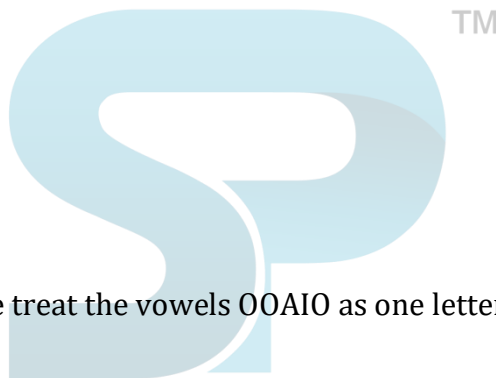
Now, 5 vowels in which O occurs 3 times and the rest are different, can be arranged

In $5! = 20$ ways.

Required number of ways = $(2520 \times 20) = 50400$.

154. How many 3-digit numbers can be formed from the digits 2, 3, 5, 6, 7 and 9, which are divisible by 5 and none of the digits is repeated?

- A. 5
- B. 10
- C. 15
- D. 20





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Answer: C

Explanation:

Since each desired number is divisible by 5, so we must have 5 at the unit place. So, there is 1 way of doing it.

The tens place can now be filled by any of the remaining 5 digits (2, 3, 6, 7, 9). So, there are 5 ways of filling the tens place.

The hundreds place can now be filled by any of the remaining 4 digits. So, there are 4 ways of filling it.

Required number of numbers = $(1 \times 5 \times 4) = 20$.

155. 3, 4, 7, 7, 13, 13, 21, 22, 31, 34, ?

- A. 42
- B. 43
- C. 51
- D. 52

Answer: B

Explanation:

The given sequence is a combination of two series :

I. 3, 7, 13, 21, 31, ? and II. 4, 7, 13, 22, 34

The pattern in I is + 4, + 6, + 8, + 10,.....

The pattern in II is + 3, + 6, + 9, + 12,.....

So, missing term = $31 + 12 = 43$.



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