KNOWER NIKHIL

Q1. Select the Venn diagram that best illustrates the relationship between the following classes.
Nurses, Doctors, Pharmacists

(a)
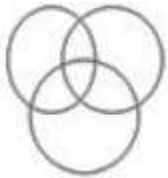
(b)
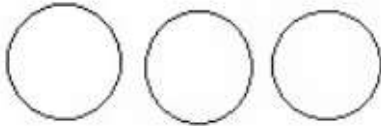
(c)

(d)

Q2. In a code language, CONSULTANCY is written as QOJKYOUYJWP. How will MASTERMINDS be written as in that language?
(a) APOWIIOZJEI
(b) APOWHIOZJEI
(c) APOWIHOZJEI
(d) APOWJIOZJEI

Q3. Ranga got thrice as many sums wrong as he got right in a mathematics assignment. If he attempted 72 sums in all, how many did he solve correctly in his mathematics assignment?
(a) 16
(b) 20
(c) 14
(d) 18

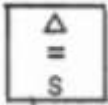**Q4. Select the figure that will come next in the following figure series.**

| + □ ○ | □ ○ 5 | < 5 ○ | △ < 5 | < △ = |

(a)

△
<
●

(b)

△
=
+

(c)

□
<
△

(d)

△
=
S

**Q5. If 'FORTUNE' is coded as '6521347' and 'PREY' is coded as '8279' then how will 'NEPTUNE' be coded as?**
(a) 4781347
(b) 4781342
(c) 4782347
(d) 4781343

Q6. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
BANK: WXLJ :: IDOL: _____
(a) DAKM
(b) ADMK
(c) DAMJ
(d) DAMK

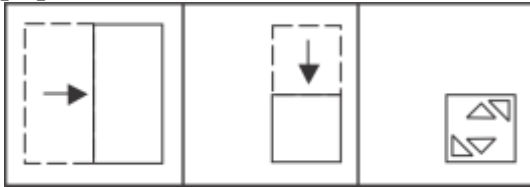**Q7. How many triangles are present in the following figure?**
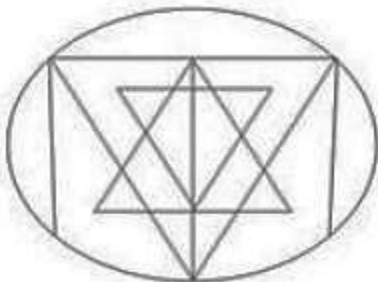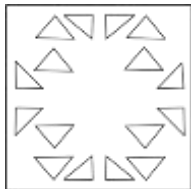
(a) 23
(b) 27
(c) 25
(d) 29

Q8. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.
(a) 83115
(b) 54215
(c) 43217
(d) 12347

Q9. A paper is folded cut as shown in the following figures. How will it appear when unfolded?
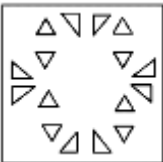

(a)

(b)

(c)

(d)

Q10. T is sister of D.D is married to P.P is the son of M.T is the mother of J.Y is the father of U.Y has only one son and only one daughter. U is the daughter of T.Q is the son of D. If M is the wife of W, then how is Q related to W?
(a) Son-in-law
(b) Son
(c) Grandson
(d) Nephew

Q11. Which number will replace the question mark (?) in the following series?
2, 4, 16, 52, 132, 282, ?
(a) 512
(b) 527
(c) 534
(d) 572

Q12. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
(a) Germany
(b) Singapore
(c) Austria
(d) Italy

Q13. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.
ab_ba_db_bd_ac_ba_cdbabd_
(a) dcadbbab
(b) dcabdbab
(c) cdabdbba
(d) dcdabbab

Q14. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow (s) from the statements.

Statements:
All women are engineers.
Some singers are engineers.

Conclusions:
I. All women are singers
II. All singers are women
III. Some engineers are women.
(a) Only conclusions I and II follow
(b) Only conclusion I follows.
(c) Only conclusion III follows.
(d) only conclusions II and III follow.

Q15. From the given alternatives select the numbers that must be interchanged to make the following equation correct.
16-6+12×3÷4=18
(a) 16 and 3
(b) 6 and 3
(c) 12 and 4
(d) 6 and 4

Q16. `2100 is divided among P,Q and R in such a way that P's share is half of the combined share of Q and R. and Q's share is one-fourth of the combined share of P and R. by what amount is R's share more than that of P?

(a) `280
(b) `500
(c) `200
(d) `250

Q17. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.
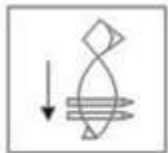
(a)
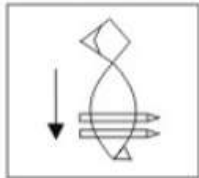
(b)
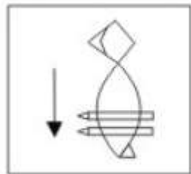
(c)
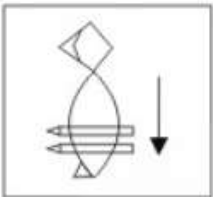
(d)
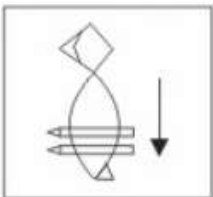
Q18. 'Cone' is related to 'Ice-cream' in the same way as 'Bowl' os related to '_____'.
(a) Soup
(b) Soap
(c) Sip
(d) Drink

Q19. Arrange the following words in a logical and meaningful order.
1. Lustrum
2. Century
3. Year
4. Millennium
5. Decade
(a) 2, 1, 5, 3, 4
(b) 5, 1, 3, 2, 4
(c) 3, 1, 5, 2, 4
(d) 5, 4, 3, 2, 1

Q20. Select the option in which the given figure is embedded.

(a)

(b)

(c)

(d)

Q21. In a code language, 'CERTAIN' is written as 'SVIGZRM'.
How will' CLIMATE' be written as in that language?
(a) XORNZGV
(b) XORNZVG
(c) XRONZGV
(d) XONRZGV

Q22. Three different positions of the same dice are shown. Find the number on the face opposite to the one having 1.
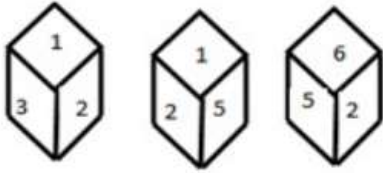
(a) 6
(b) 3
(c) 4
(d) 2

Q23. Which number will replace the question mark (?) in the following series?
89, 90, 82, 109, 45?
(a) -80
(b) 125
(c) 170
(d) 109

Q24. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.
Myopic: Farsighted
(a) Famous: Obscure
(b) Confusion: Chaotic
(c) Postpone: Suspend
(d) Trouble: Grief

Q25. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(15, 102, 313)
(a) (11, 74, 229)
(b) (5, 32, 121)
(c) (8, 53, 164)
(d) (9, 60, 185)

Q26. In which state is Sambhar, the largest inland salt water lake of India located?
(a) Maharashtra
(b) Odisha
(c) Andhra Pradesh
(d) Rajasthan

Q27. Former Flipkart executive Sandeep Patil was appointed as India Managing Director of which company in May 2019?
(a) Amazon
(b) True Caller
(c) Paytm
(d) Snapdeal

Q28. Which State Government increased the financial aid given to girls under the 'Aapki Beti' Scheme in May 2019?
(a) Sikkim
(b) Odisha
(c) Rajasthan
(d) Assam

Q29. Who among the following clinched a gold medal in the women's 25m pistol event at the 2019 ISSF World Cup?
(a) Rahi Sarnobat
(b) Heena Sidu
(c) Manu Bhaker
(d) Devanshi Rana

Q30. Which one of the following Union Territories has been granted with partial statehoodship?
(a) Puducherry
(b) Daman and Diu
(c) Dadra and Nagar Haveli
(d) Lakshadweep

Q31. Herts is the SI unit of
(a) Frequency
(b) Force
(c) Pressure
(d) Energy

Q32. In Lok Sabha 2019 Elections, Congress won _____ seats out of the 13 Lok Sabha seats of Punjab.
(a) 8
(b) 6
(c) 10
(d) 5

Q33. Financial Literacy Week 2019' is an initiative by which bank to promote awareness on key topics every year through a focused campaign?
(a) State Bank of India
(b) ICICI Bank
(c) Reserve Bank of India
(d) Indian Bank

Q34. In which state is the Mundra Power Plant located?
(a) Gujarat
(b) Madhya Pradesh
(c) Chhattisgarh
(d) Odisha

Q35. What is the name of the Young Scientist Programme inaugurated by the Chairman of ISRO in May 2019?
(a) Yuva-2019
(b) Young India-2019
(c) Youth-2019
(d) Yuvika-2019

Q36. In May 2019, which of the following companies announced that it would stop selling its smartphones in India?
(a) Samsung
(b) Apple
(c) Sony
(d) OnePlus

Q37. Which of the following countries hosted the Asian Cup Football tournament in 2019?
(a) Singapore
(b) China
(c) UAE
(d) South Korea

Q38. The investment and financial services major Goldman Sachs has sanctioned $250 million to construct one of its largest global workspaces in _____.
(a) Bengaluru
(b) Pune
(c) Gurugram
(d) Chennai

Q39. In which year was Satya Shodhak Samaj founded by Jyotirao Phule?
(a) 1865
(b) 1873
(c) 1861
(d) 1870

Q40. Who among the following was elected to the board of the International Air Transport Association (IATA) in June 2019?
(a) Rahul Bhatia
(b) Ajay Singh
(c) Naresh Goyal
(d) Bhaskar Bhat

Q41. The Himalayas belong to which of the following categories of mountains?
(a) Plateau Mountain
(b) Fault-block Mountain
(c) Fold Mountain
(d) Dome Mountain

Q42. The National institute of Nutrition is located in:
(a) Shillong
(b) Indore
(c) Mumbai
(d) Hyderabad

Q43. The quote "The shots that hit me are the last nails to the coffin of British rule in India". Belongs to which of the following freedom fighters?
(a) Lala Lajpat Rai
(b) Chandrashekhar Azad
(c) Bhagat Singh
(d) Ram Prasad Bismil

Q44. In the field of information & Communication Technology, what is the full form of EEPROM?
(a) Electrically Erasable Programmable Read-Only Memory
(b) Electrically Efficient Portable Read-Only Memory
(c) Electrically Efficient Programmable Read-Only Memory
(d) Enhanced Electrical Portable Read-Only Memory

Q45. 'Pivot Table' is a feature of which of the following softwares?
(a) Microsoft Excel
(b) Microsoft Word
(c) Microsoft Access
(d) Microsoft PowerPoint

Q46. Which eminent novelist and poet of the 20th century is the author of 'pinjar'
(a) Amrita Pritam
(b) Harivansh Rai Bachchan
(c) Bhawani Prasad Mishra
(d) Prabha Kiran Jain

Q47. The winners of the 2019 ICC men's World Cup will earn a cash award of _____ which is the highest prize money on offer in the history of the tournament.
(a) $6 million
(b) $4 million
(c) $5 million
(d) $2 million

Q48. The "World Blood Donor Day" was celebrated around the world on _____ 2019 with the theme 'Safe blood for all'.
(a) 16th March
(b) 29th April
(c) 14th June
(d) 25th May

Q49. Soorya Festival' is associated to which of the following cities?
(a) Thiruvananthapuram
(b) Chennai
(c) Jaipur
(d) Hyderabad

Q50. In the solar system, among the planets listed below, which planet is farthest from the Sun?
(a) Mars
(b) Jupiter
(c) Neptune
(d) Venus

Q51. Anu spends 90% of her income. If her expenditure increases by 25% and savings increase by 30%, then by what percent does her salary increase?
(a) 25.5%
(b) 24%
(c) 22.5%
(d) 20%

Q52. Let Δ ABC ~ ΔQPR and $\frac{ar(\Delta ABC)}{ar(\Delta PQR)} = \frac{9}{16}$, If AB = 12cm, BC = 6cm and AC =9cm, then QP is equal to:
(a) 16cm
(b) 9cm
(c) 12cm
(d) 8cm

Q53. A circle is inscribed in a quadrilateral ABCD, touching sides AB, BC CD and DA at P, Q, R and S, respectively. If AS= 8cm, BC=11cm, and CR=5cm, then the length AB is equal to:
(a) 12 cm
(b) 13 cm
(c) 16 cm
(d) 14 cm

Q54. If $3cos^2 A + 6sin^2 A = 3, 0° \le A \le 90°$, then the value of A is:
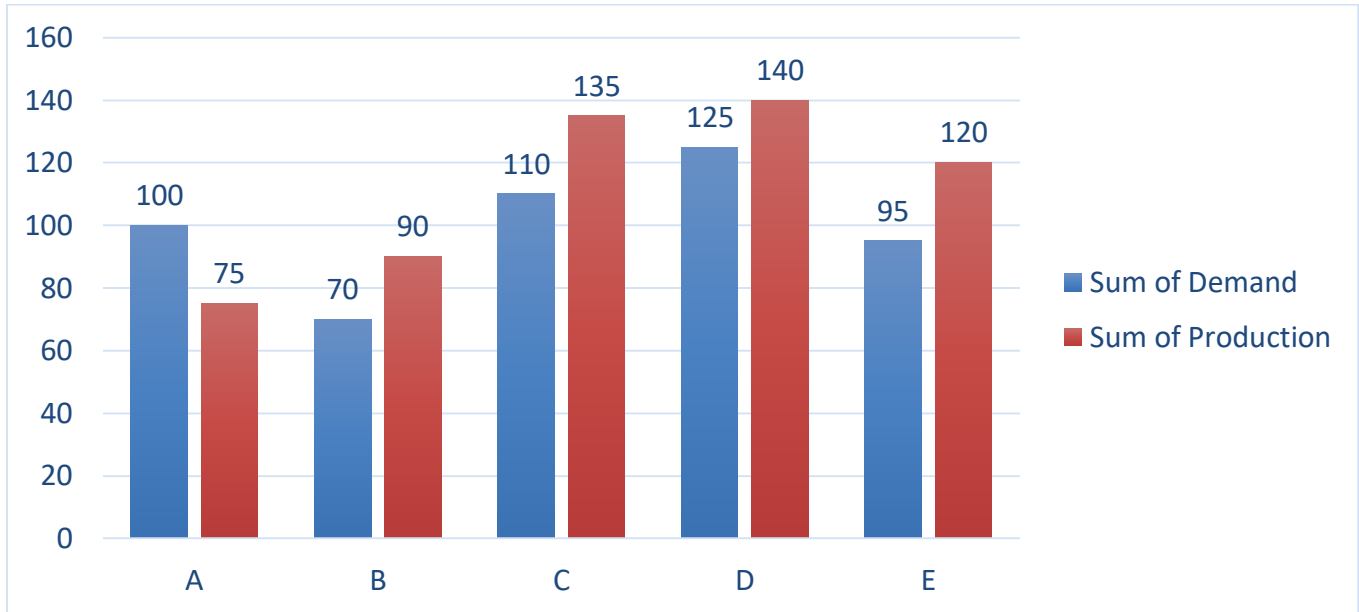(a) 30°
(b) 0°
(c) 90°
(d) 45°

Q55. In ΔABC, AD $\perp$ BC at D and AE is the bisector of $\angle$ A. If $\angle$B=72° and $\angle$C=26°, then what is the measure of $\angle$DAE?
(a) 23°
(b) 25°
(c) 49°
(d) 37°

Q56. The value of $\dfrac{(cos9°+sin81°)(sec9°+cosec81°)}{sin56°\ sec34°+cos25°\ cosec65°}$ **is:**

(a) $\frac{1}{2}$

(b) 4

(c) 2

(d) 1

Q57. The given Bar Graph presents the Demand an Production of motorcycles of five companies (in lakhs).

The average Production of motorcycles of companies B, C and E taken together is what percent less than the demand of motorcycles of D?

(a) 8%

(b) 8.7%

(c) 9.3%

(d) 6%

Q58. A simplified value of $\left(\dfrac{sin\theta}{1+cos\theta}+\dfrac{1+cos\theta}{sin\theta}\right)\left(\dfrac{1}{tan\theta+cot\theta}\right)$ **is:**

(a) $cos\theta$

(b) $2sin\theta$

(c) $sin\theta$

(d) $2cos\theta$

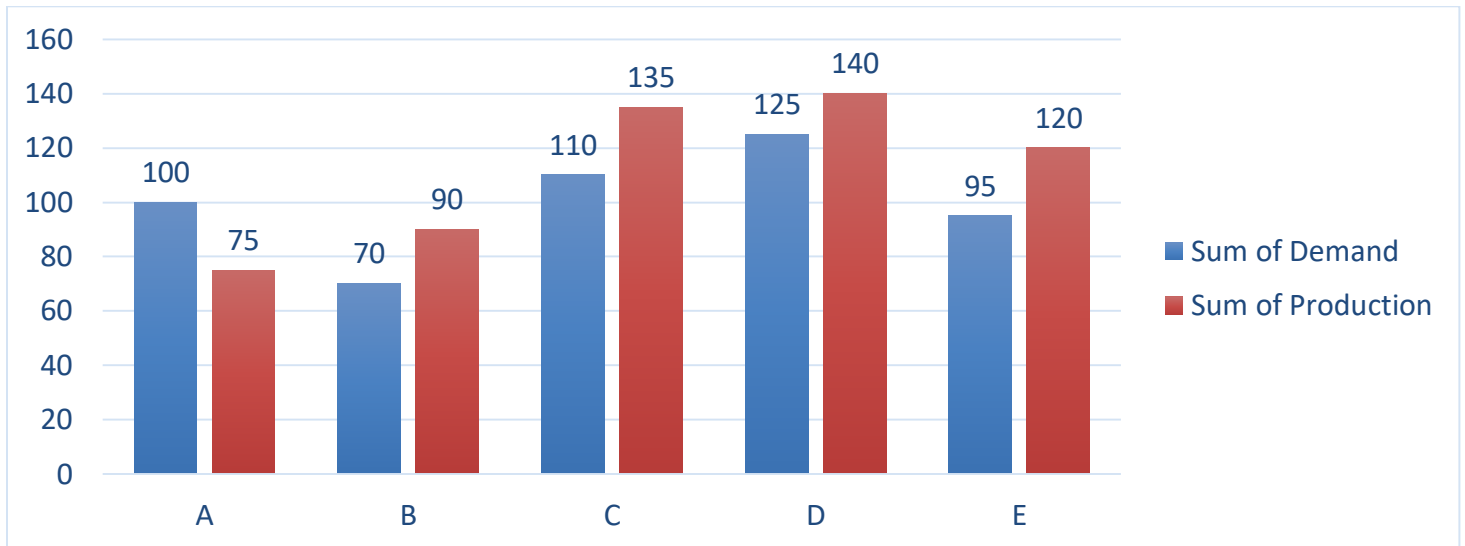**Q59. If** $3\text{-}2sin^2\theta-3cos\theta=0, 0°<\theta<90°,$ **then what is the value of** $(2cosec\theta+tan\theta)$**?**

(a) $7\sqrt{3}$

(b) $5\sqrt{3}$

(c) $\dfrac{5\sqrt{\ }}{3}$

(d) $\dfrac{7\sqrt{\ }}{3}$

Q60. Abhi sold two articles for `5,220 each. On one, he gained 16% and on the other, he lost 10%. His profit or loss on the whole was:

(a) Profit, `140

(b) Loss, `125

(c) Profit, `180

(d) Loss, `130

Q61. The given Bar Graph presents the Demand and Production of Motorcycles of five companies (in lakhs)

What is the ration of the total Demand of motorcycles of companies A and D taken together to the Production of motorcycles of company C?

(a) 13: 9

(b) 8: 5

(c) 5: 3

(d) 9: 7

Q62. A and B, working together, can complete a work in 16day, C and A together can complete it in 32 days, B and C together can compete it in 24 days. They worked together for 12 days. In how many days will C alone complete the remaining work?

(a) 40

(b) 36

(c) 45

(d) 32

Q63. If $a^3 + b^3 = 110$ and $a + b = 5, then\ (a+b)^2 - 3ab$ is equal to:

(a) 52

(b) 32

(c) 42

(d) 22

Q64. The given Bar Graph presents the Demand and Production of motorcycles of five companies (in lakhs).
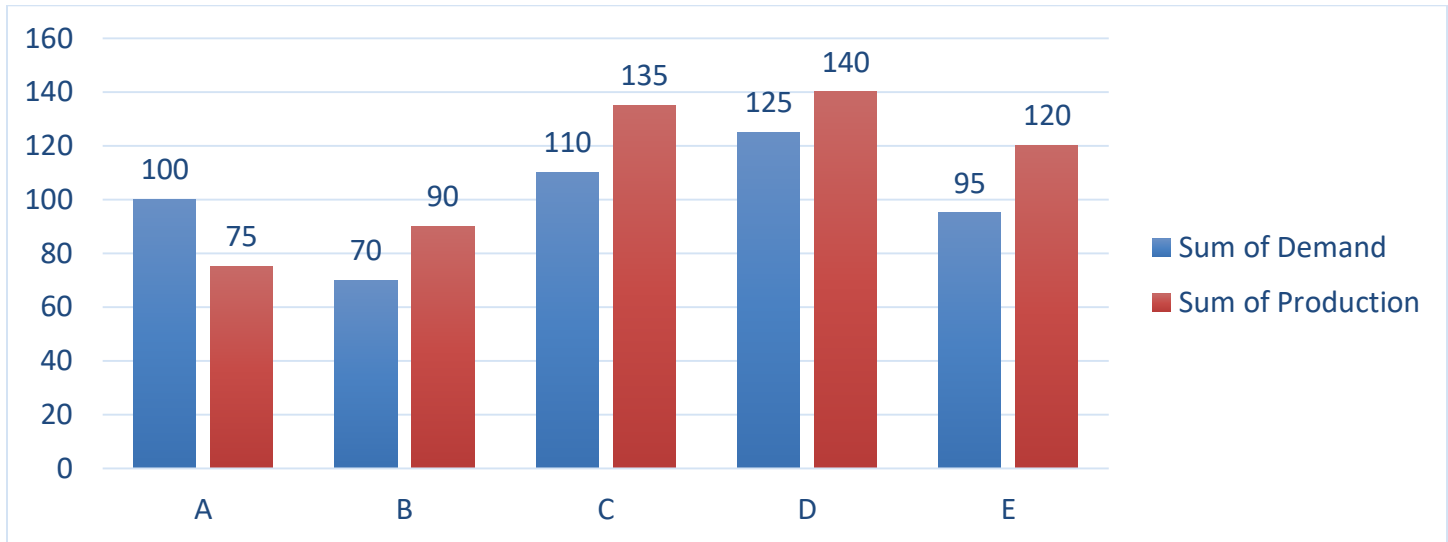
The total Production of motorcycles of companies B and D taken together is what percent of the Demand of motorcycles of all the companies taken together?
(a) 46%
(b) 38%
(c) 48%
(d) 40%

Q65. The total number of students in class A and B is 96. The number of students in A is 40% more than that in B. the average weight (in kg) of the students in B is 50% more that that of the students in A. If the average weight of all the students in A and B taken together is 58 kg, then what is the average weight of the students in B?
(a) 72 kg
(b) 60 kg
(c) 48 kg
(d) 66 kg

Q66. If $a + b + c = 5$, and $a^2 + b^2 + c^2 = 33$, then what is the value of $a^3 + b^3 + c^3 - 3abc$?
(a) 195
(b) 180
(c) 192
(d) 185

Q67. If $40\sqrt{5}x^3 - 3\sqrt{3}\,y^3 = \left(2\sqrt{5}\,x - \sqrt{3}\,y\right) \times \left(Ax^2 + Bxy + Cy^2\right)$, then what is the value of $\sqrt{B^2 + C^2 - A}$?
(a) 11
(b) 7
(c) 8
(d) 9

Q68. What is the compound interest on a sum of `4,096 at 15% p.a. for $2\frac{1}{2}$ years, if the interest is compounded 10-monthly?

(a) `1,726

(b) `1,736

(c) `1,636

(d) `1,763

Q69. A train x running at 84 km/h crosses another train y running at 52 km/h in opposite direction in 12 seconds. If the length of y is two-third that of x, then what is the length of x?

(a) 250 m

(b) 242 m

(c) 272 m

(d) 408 m

Q70. The given Bar Graph presents the Demand and Production of motorcycles of five companies (in lakhs).
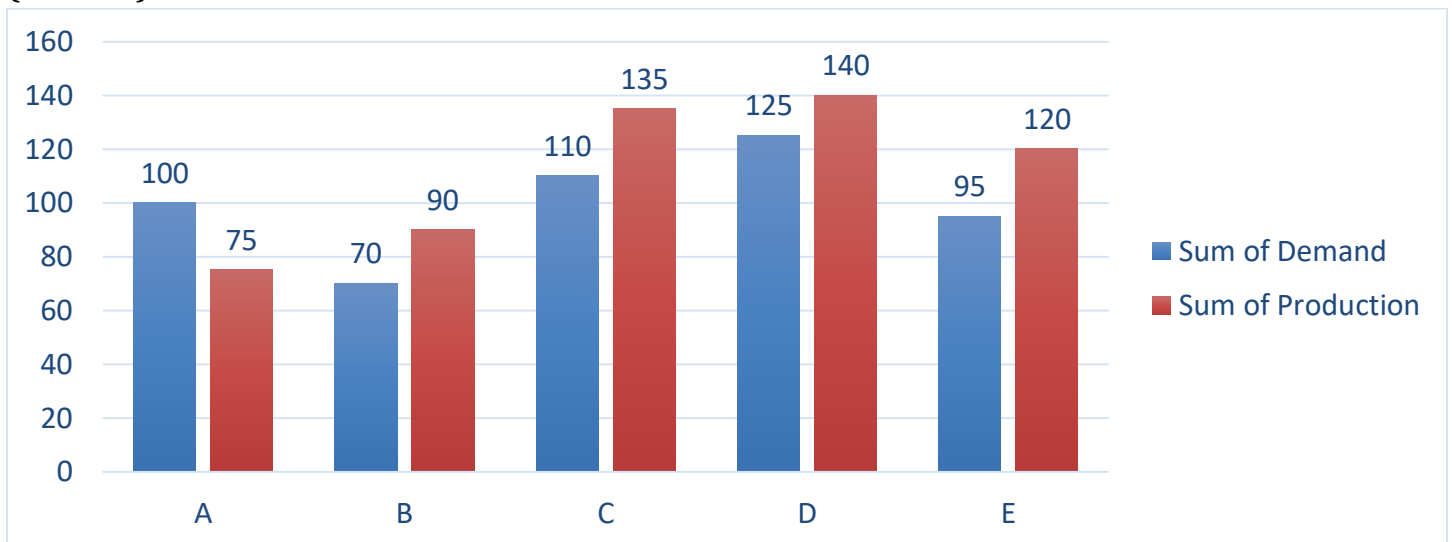
The company in which the Production of motorcycles is approximately 23% more than the Demand is:

(a) B

(b) C

(c) D

(d) E

Q71. If $x^2 + 1 = 3x$, then the value of $\frac{(x^4+x^{-2})}{(x^2+5x+1)}$ is:

(a) $2\frac{1}{3}$

(b) $2\frac{1}{4}$

(c) $4\frac{1}{2}$

(d) $3\frac{1}{2}$

Q72. In an examination, the success to failure ratio was 5: 2. Had the number of failures been 14 more, then the success to failure ratio would have been 9: 5. The total number of candidates who appeared for the examination was:

(a) 210

(b) 196

(c) 126

(d) 203

Q73. In a circle, chords AB and CD intersect each other at E. If CD=18 cm, DE=6 cm and AE = 18 cm, then BE=?

(a) 6 cm

(b) 8 cm

(c) 3 cm

(d) 4 cm

Q74. In $\triangle ABC, \angle A = 90°$. If BL and CM are the medians, then:

(a) $4(BL^2 + CM^2) = 3BC^2$

(b) $4(BL^2 + CM^2) = 5BC^2$

(c) $3(BL^2 + CM^2) = 4BC^2$

(d) $5(BL^2 + CM^2) = 4BC^2$

Q75. The radius of the base of a cylinder is 7 cm and its curved surface area is 440 cm². Its volume (in cm²) will be:

$$\left(Take\ \pi = \frac{22}{7}\right)$$

(a) 1760

(b) 1430

(c) 1540

(d) 1650

Q76. Select the most appropriate antonym of the given word.

MOROSE

(a) sullen

(b) cheerful

(c) unsatisfied

(d) mournful

Q77. Select the most appropriate antonym of the given word.

CORROBORATE

(a) confirm

(b) approve

(c) verify

(d) contradict

Q78. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.
The children are too young to <u>sit up</u> a long lecture.
(a) No improvement
(b) sit across
(c) sit away
(d) sit through

Q79. Select the word which means the same as the group of words given.
That which cannot be taken by force
(a) inaccessible
(b) impregnable
(c) inapprehensible
(d) immutable

Q80. In the sentence identify the segment which contains the grammatical error.
Different-coloured natural food not only put a smile on children's faces and also benefit their overall growth.
(a) benefit their overall growth
(b) and also benefit
(c) Different coloured natural foods
(d) put a smile on children's faces

Q81. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
A. Early on Christmas morning Pip returns to the graveyard with the file, a pie and brandy.
B. On Christmas Eve, Pip an orphan who is about seven years old, encounters and escaped convict in the village graveyard.
C. The convict scares pip into stealing food and a file.
D. Pip, who lives with his elder sister and her husband Joe Gargery, a blacksmith, steals a file and some food.
(a) BCDA
(b) CBAD
(c) BDCA
(d) DCAB

Q82. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
A. In a small town in England, there lived a poor little girl.
B. She was very excited but her right shoe was worn out.
C. So, she went to a cobbler to get it mended.
D. Her friends invited her to come to her birthday party.
(a) DCAB
(b) ACBD
(c) ADBC
(d) CBAD

Q83. Select the correct indirect form of the given sentence.

I asked the shopkeeper, "What is the price of this bike?"

(a) I asked the shopkeeper that what the price of this bike was.

(b) I asked the shopkeeper what is the price of the bike.

(c) I asked the shopkeeper what was the price of that bike.

(d) I asked the shopkeeper what the price of that bike was.

Q84. Select the most appropriate synonym of the given word.

EMBED

(a) pull

(b) bury

(c) dig up

(d) rise

Q85. Select the most appropriate meaning of the given idiom.

As clear as mud

(a) extremely dirty

(b) honest and legal

(c) impossible to understand

(d) completely suitable for someone

Q86. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

I try to avoid <u>travel in</u> the rush hour.

(a) travelling in

(b) No improvement

(c) to travel at

(d) travelling on

Q87. Select the wrongly spelt word.

(a) brood

(b) blosom

(c) boast

(d) booty

Q88. In the sentence identify the segment which contains the grammatical error.

The Cannes Film Festival attract some of the world's most famous people.

(a) the world's

(b) the Cannes film Festival

(c) attract some of

(d) most famous people

Q89. Select the most appropriate synonym of the given word.
COMBUSTIBLE
(a) nonexplosive
(b) fragile
(c) unbreakable
(d) inflammable

Q90. Select the most appropriate word to fill in the blank.
The thick smoke _____ out of the landfill site is making the city's polluted air even more toxic.
(a) burning
(b) tossing
(c) billowing
(d) rocking

Q91. Select the most appropriate word to fill in the blank.
Financial institutions that had their premises in the World Trade Centre were crippled by the loss of _____ and hardware.
(a) individual
(b) personnel
(c) group
(d) person

Comprehension:
In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives give. Select the most appropriate option for each blank.
Bill gates is the second-richest (1) _____ in the world. He is (2) _____ an estimated $103
Billion. His wealth (3) ____ only by Jeff Bezos, (4) has a current net worth of $116 billion. Gates is (5) _____ rich that an average American spending $1 is similar to Gates spending $1.06 million.

Q92. Select the most appropriate option for blank No.1
(a) person
(b) personnel
(c) character
(d) human

Q93. Select the most appropriate option for blank No. 2.
(a) classed
(b) worth
(c) valuable
(d) cost

Q94. Select the most appropriate option for blank No. 3
(a) is surpassed
(b) surpasses
(c) is surpassing
(d) surpassed

Q95. Select the most appropriate option for blank No. 4.
(a) which
(b) whose
(c) whom
(d) who

Q96. Select the most appropriate option for blank No. 5.
(a) so
(b) too
(c) as
(d) such

Q97. Select the correct passive form of the given sentence.
Bill Gates has given away twenty seven percent of his wealth in charity.
(a) Twenty seven percent of his wealth had been given away by Bill Gates in charity.
(b) Twenty seven percent of his wealth has given away Bill Gates in charity.
(c) Bill Gates has been given away by twenty seven percent of his wealth in charity.
(d) Twenty-seven percent of his wealth has been given away by Bill Gates in charity.

Q98. Select the most appropriate meaning of the given idiom.
Spill the beans
(a) create difficulty
(b) make an excuse
(c) reveal a secret
(d) frighten someone

Q99. Select the word which means the same as the group of words given.
A large impressive house
(a) mansion
(b) cabin
(c) shack
(d) fort

Q100. Select the wrongly spelt word.
(a) emphasis
(b) emporium
(c) emmision
(d) emolument