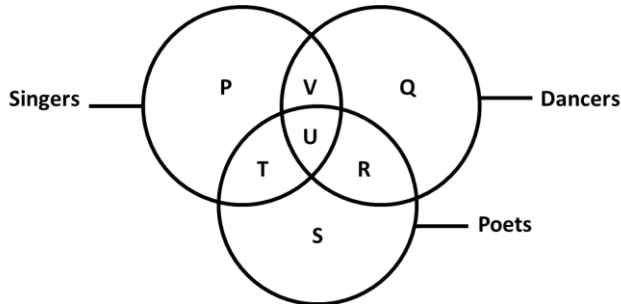


UP B. Ed JEE GK Held on 15 April 2019 Paper II – English

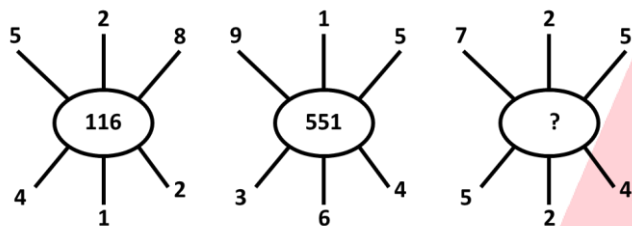
Q1. Study the following diagram and identify the region which represents the students who are both poets and singers but not dancers.



- (a) P + T + S
- (b) T
- (c) T + U + R + S
- (d) T + U + S + P

Ans.(b)

Q2. Find the missing term from the responses.



- (a) 287
- (b) 201
- (c) 215
- (d) 275

Ans.(b)

Q3. Which of the following pair is incorrect?

- (a) Thiamine-Beri beri
- (b) Vitamin-K-Sterility
- (c) Niacin-Pellagra
- (d) Vitamin-D-rickets

Ans.(b)

Q4. The organ system which get affected by AIDS disease is

- (a) digestive system
- (b) respiratory system
- (c) central nervous system
- (d) immune system

Ans.(d)

Q5. Which one of the following set constitutes female part of a flower?

- (a) Stigma, ovary and anther
- (b) Stigma, ovary and style

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- (c) Anther, ovary and style
(d) Filament, petals and calyx

Ans.(b)

Q6. The location of nucleus in a typical plant cell is

- (a) central
(b) peripheral
(c) basal
(d) anywhere

Ans.(b)

Q7. Which of the following products are formed during light reaction of photosynthesis?

- (a) ATP and sugar
(b) Hydrogen, O_2 and sugar
(c) ATP, hydrogen donor and O_2
(d) ATP, hydrogen and O_2 donor

Ans.(c)

Q8. 'Herbivores' in a food chain are

- (a) primary producers
(b) primary consumers
(c) secondary consumers
(d) decomposers

Ans.(b)

Q9. Which of the following compounds show maximum hydrogen bonding?

- (a) HF
(b) H_2O
(c) NH_3
(d) CH_3OH

Ans.(b)

Q10. Which of the following is not a physical change?

- (a) Boiling of water to give water vapour
(b) Melting of ice to give water
(c) Dissolution of salt in water
(d) Combustion of liquefied petroleum gas (LPG)

Ans.(d)

Q11. Which of the following oxide(s) of iron would be obtained on prolonged reaction of iron with steam?

- (a) Fe_3O_4
(b) Fe_2O_3
(c) Both (a) and (b)
(d) FeO

Ans.(c)

Q12. Blue vitriol is used to test the presence of water. Blue vitriol is

- (a) calcium oxide
(b) sulphuric acid
(c) sodium oxide
(d) copper sulphate

Ans.(d)

Q13. The rusting iron is

- (a) Liquid metal corrosion
- (b) Oxidation corrosion
- (c) Corrosion by other gases
- (d) wet corrosion

Ans.(b)

Q14. Which of the following is an alloy of cobalt?

- (a) Vitallium
- (b) Brass
- (c) Invar
- (d) Solder

Ans.(a)

Q15. Find the odd one out

- (a) Neutral Salt : NaCl
- (b) $CuSO_4 \cdot 5H_2O$ Acid Salt : C
- (c) Basic Salt: $CuCO_3 \cdot Cu(OH)_2$
- (d) Nonhydrated salt: KNO_3

Ans.(b)

Q16. Heating rubber with sulphur is known as

- (a) galvanisation
- (b) bessemerisation
- (c) Vulcanisation
- (d) Sulphonation

Ans.(c)

Q17. Gammaxene, DDT and bleaching powder are important compound of

- (a) chlorine
- (b) nitrogen
- (c) sulphur
- (d) phosphorus

Ans.(a)

Q18. The magnetic moment of diamagnetic atom is

- (a) more than one
- (b) one
- (c) between one and zero
- (d) zero

Ans.(d)

Q19. Twinkling of stars is due to atmospheric

- (a) dispersion of light by water droplets
- (b) refraction of light by different layers of varying refractive indices
- (c) scattering of light by dust particles
- (d) internal reflection of light by clouds

Ans.(b)

Q20. The clear sky appears blue because

- (a) blue light gets absorbed in the atmosphere
- (b) ultraviolet radiations are absorbed in the atmosphere
- (c) violet and blue lights get scattered more than lights of all other colours by the atmosphere
- (d) light of all other colours is scattered more than the violet and blue colour lights by the atmosphere

Ans.(c)

Q21. The most important safety method used for protecting home appliances from short-circuiting or overloading is

- (a) earthing
- (b) use of fuse
- (c) use of stabilizers
- (d) use of electric meter

Ans.(b)

Q22. A full length image of a distant tall building can definitely be seen by using

- (a) a concave mirror
- (b) a convex mirror
- (c) a plane mirror
- (d) both concave as well as plane mirror

Ans.(a)

Q23. The resistivity does not change, if

- (a) the material is changed
- (b) the temperature is changed
- (c) the shape of the resistor is changed
- (d) both material and temperature are changed

Ans.(c)

Q24. In a hydroelectric power plant more electrical power can be generated, if water falls from a great height, then

- (a) its temperature increases
- (b) larger amount of potential energy is converted into kinetic energy
- (c) the electricity content of water increases with height
- (d) more water molecules dissociate into ions

Ans.(b)

Q25. The strength of magnetic field inside a long current carrying straight solenoid is

- (a) more at the ends than at the centre
- (b) minimum in the middle
- (c) same at all points
- (d) found to increase from one end to the other

Ans.(c)

Q26. Magnification produced by a rear view mirror fitted in vehicles

- (a) is less than one
- (b) is more than one
- (c) is equal to one
- (d) can be more than or less than one depending upon the position of the object in front of it

Ans.(a)

Q27. In an electrical circuit, three incandescent bulbs A , B and C of rating 40 W , 60 W and 100 W respectively are connected in parallel to an electric source. Which of the following is likely to happen regarding their brightness?

- (a) Brightness of all the bulbs will be the same
- (b) Brightness of bulb A will be the maximum
- (c) Brightness of bulb B will be more than that of A
- (d) Brightness of bulb C will be less than that of B

Ans.(a)

Q28. If $a = \frac{1}{7-4\sqrt{3}}$ and $b = \frac{1}{7+4\sqrt{3}}$, then value of $a + b$ is:

- (a) 49
- (b) 48
- (c) 14
- (d) 16

Ans.(c)

Q29. The volume of a right circular cone is $100\pi\text{cm}^3$ and its height is 12 cm Find the slant height.

- (a) 13 cm
- (b) 16 cm
- (c) 9 cm
- (d) 26 cm

Ans.(a)

Q30. The chord AB of a circle C_1 of radius $(\sqrt{3}+1)$ cm touches of a circle C_2 of radius $(\sqrt{3}-1)$ cm, then the length of the AB^2 is

- (a) $8\sqrt{3}\text{cm}$
- (b) $4\sqrt[3]{3}\text{cm}$
- (c) $4\sqrt{3}\text{cm}$
- (d) $2\sqrt[3]{3}\text{cm}$

Ans.(a)

Q31. The bisector BI and CI of $\angle B$ and $\angle C$ of a $\triangle ABC$ meet in I. What is $\angle BIC$ equals to?

- (a) $90^\circ - \frac{A}{4}$
- (b) $90^\circ + \frac{A}{4}$
- (c) $90^\circ - \frac{A}{2}$
- (d) $90^\circ + \frac{A}{2}$

Ans.(d)

Q32. What will be the simple interest on ₹ 4000 at $12\frac{1}{2}\%$ per annum for the period from 4 th February, 2005 to 18th April, 2005?

- (a) ₹ 215
- (b) ₹ 120
- (c) ₹ 200
- (d) ₹ 100

Ans.(d)

Q33. If $\alpha + \beta = 90^\circ$ and $\alpha : \beta = 2 : 1$, then the value of $\sin\alpha : \sin\beta$ is:

- (a) $\sqrt{3} : 1$
- (b) $2 : 1$
- (c) $1 : 1$
- (d) $\sqrt{2} : 1$

Ans.(a)

Q34. The expression $\frac{\tan 57^\circ + \cot 37^\circ}{\tan 33^\circ + \cot 53^\circ}$ is equal to

- (a) $\tan 33^\circ \cot 57^\circ$
- (b) $\tan 57^\circ \cot 37^\circ$
- (c) $\tan 33^\circ \cot 53^\circ$
- (d) $\tan 53^\circ \cot 37^\circ$

Ans.(b)

Q35. From the circumcenter I of the $\triangle ABC$, perpendicular ID is drawn on BC. If $\angle BAC = 60^\circ$, then the value of $\angle BID$ is

- (a) 75°
- (b) 60°
- (c) 45°
- (d) 80°

Ans.(b)

Q36. If $x = 1 + \sqrt{2}$, then the value of $\left(x - \frac{1}{x}\right)^3$ is

- (a) 7
- (b) 6
- (c) 8
- (d) 10

Ans.(c)

Q37. The value of 20% of 225 + 64 % of of 250 is

- (a) 205
- (b) 405
- (c) 210
- (d) 250

Ans.(a)

Q38. A and B can do a piece of work in 6 and 12 days, respectively. They (both) will complete the work in how many days?

- (a) 9
- (b) 18
- (c) 6
- (d) 4

Ans.(d)

Q39. How many numbers of two digits are divisible by 7 ?

- (a) 11
- (b) 12
- (c) 13
- (d) 14

Ans.(c)

Q40. If the sum of first n terms of an AP is given by $S_n = 6n + 7n^2$, then find the nth term of the AP. Also, find 10th term of the AP.

- (a) 138
- (b) 139

- (c) 140
(d) 141

Ans.(b)

Q41. Simplified form of $\frac{x^2-5x+6}{x^2-7x+10} \div \frac{x^2-10x+21}{x^2-9x+20}$

- (a) $\frac{x-4}{x-7}$
(b) $\frac{x-5}{x-3}$
(c) $\frac{x-5}{x-1}$
(d) $\frac{x-4}{x-3}$

Ans.(a)

Q42. The train running at the speed of 72 km/hr goes past a pole in 15 s . What is the length of the train?

- (a) 150 m
(b) 200 m
(c) 300 m
(d) 350 m

Ans.(c)

Q43. A maximum length of a pencil that can be kept in a rectangular box of dimensions 8 cm x 6 cm x 2 cm, is

- (a) $2\sqrt{13}cm$
(b) $2\sqrt{14}cm$
(c) $2\sqrt{26}cm$
(d) $10\sqrt{2}cm$

Ans.(c)

Q44. If the speed of a swimmer in still water is 9 km/hr. Find the downstream speed of the swimmer, when the river is flowing with the speed of 6 km/hr.

- (a) 15 km/hr
(b) 18 km/hr
(c) 3 km/hr
(d) 12 km/hr

Ans.(a)

Q45. Two circles of same radius 5 cm , intersect each other at A and B . If AB = 8 cm, then the distance between the centres is

- (a) 10 cm
(b) 4 cm
(c) 6 cm
(d) 8 cm

Ans.(c)

Q46. On a 20% discount sale, an article costs 596 . What was the original price of the article?

- (a) ₹ 720
(b) ₹ 735
(c) ₹ 745
(d) ₹ 775

Ans.(c)

Q47. The value of $(\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 89^\circ)$ is

- (a) undefined
- (b) 0
- (c) 1
- (d) 89

Ans.(c)

Q48. There are 15 marbles in a box in such away that 2 marbles are green, 4 marbles are blue, 6 marbles are red and 3 marbles are black. If four marbles are picked at random, what is the probability that one is green, two are blue and one is red?

- (a) $\frac{24}{455}$
- (b) $\frac{13}{35}$
- (c) $\frac{11}{15}$
- (d) $\frac{7}{91}$

Ans.(a)

Q49. If α and β are the roots of the equation $x^2 - 11x + 24 = 0$, find the equation having the roots $\alpha + 2$ and $\beta + 2$.

- (a) $x^2 + 15x + 24 = 0$
- (b) $x^2 - 15x + 24 = 0$
- (c) $x^2 - 15x + 50 = 0$
- (d) $x^2 + 15x - 60 = 0$

Ans.(c)

Q50. What is the HCF of $8(x^5 - x^3 + x)$ and $28(x^6 + 1)$?

- (a) $4(x^4 - x^2 + 1)$
- (b) $x^3 - x + 4x^2$
- (c) $x^3 - x + 3x^2$
- (d) None of these

Ans.(a)

Q51. If $a + b + c = 9$ and $ab + bc + ca = 40$, then find the value of $a^2 + b^2 + c^2$.

- (a) 81
- (b) 1
- (c) 18
- (d) 79

Ans.(b)

Q52. The sum of a numbers and its reciprocal is $\frac{10}{3}$, then the number are

- (a) $3, \frac{1}{3}$
- (b) $3, -\frac{1}{3}$
- (c) $-3, \frac{1}{3}$
- (d) $-3, -\frac{1}{3}$

Ans.(a)

Q53. In the process of child learning, parent should play a role of

- (a) negative
- (b) Cooking forward
- (c) sympathy
- (d) neutral

Ans.(c)

Q54. In inclusive education which one of the following is least important trait?

- (a) Sensitive regarding students
- (b) Attachment and patience for students
- (c) Knowledge of student's incompetence
- (d) Socio-economic level of teacher

Ans.(d)

Q55. Child centred education refers to

- (a) encourage the experience and learning of a child
- (b) communicate the child what to do by the teacher
- (c) encourage the child to adopt the prescribed notice
- (d) teacher centric class

Ans.(a)

Q56. A and B can together finish a work in 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. The number of days in which B alone can finish the work is

- (a) 54
- (b) 60
- (c) 50
- (d) 48

Ans.(b)

Q57. The average age of A and B is 20 yr . If A is to be replaced by C , the average would be 19 yr . The average age of C and A is 21 yr . The ages of A , B and C in order (in years) are

- (a) 22 , 18 , 20
- (b) 22 , 20 , 18
- (c) 18 , 22 , 20
- (d) 18 , 20 , 22

Ans.(a)

Q58. If 120 is 20% of a number , than 120% of that number will be:

- (a) 20
- (b) 120
- (c) 360
- (d) 720

Ans.(d)

Q59. Find the value of $(x + y) - (x - y)$

- (a) $2x$
- (b) $2y$
- (c) $x + y$
- (d) $x - y$

Ans.(b)

Q60. In a division sum, the divisor is 3 times the quotient and 6 times the remainder. If the remainder is 2 , then the dividend is

- (a) 36
- (b) 28
- (c) 50

(d) 48

Ans.(c)

Q61. If it is possible to make a meaningful word with the 4th, the 6th, the 9th and the 11th letters of the word 'QUALIFICATION', then which of the following will be the 3rd letter of that word? If more than one such word can be formed give 'M' as the answer and if no such word can be formed give 'N' as the answer.

(a) M

(b) I

(c) F

(d) N

Ans.(a)

Q62. In the given number series, how many odd numbers are there which are immediately preceded by an even number and immediately followed by an odd number?

5 1 4 7 3 9 8 5 7 2 6 3 1 5 8 6 3 8 5 2 2 4 3 4 9 6

(a) 1

(b) 2

(c) 3

(d) 4

Ans.(c)

Q63. If in a certain code language 'TRIVENDRUM' is written as 'VTKXGPFTWO', then how will 'ERNAKULAM' be written in that language?

(a) GTPCMWNOC

(b) GTPCMWNCO

(c) GTPCMNWCO

(d) GTPMCWNCO

Ans.(b)

Q64. If 'MACHINE' is coded as 19-7-9-14-15-20-11, then how will 'DANGER' be coded in the that code?

(a) 11-7-20-16-11-24

(b) 13-7-20-9-11-25

(c) 10-7-20-13-11-24

(d) 13-7-20-10-11-25

Ans.(c)

Q65. One statement is given, followed by two conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statement. Indicate your answer.

Statement:

Medals are awards.

Conclusions:

I. All awards are not medals.

II. All medals received are called awards.

(a) Only Conclusion I follows.

(b) Only Conclusion II follows.

(c) Both Conclusions I and II follows.

(d) Neither Conclusion I nor II follows.

Ans.(b)

Q66. if \div means '+', ' \times ' means '-' then $(15 \times 9) \div (12 \times 4) \times (4 \div 4)$ is equal to

- (a) 96
- (b) 6
- (c) $\frac{143}{8}$
- (d) $\frac{3}{128}$

Ans.(b)

Q67. If $2463 = 36$ and $5552 = 30$, then $6732 = ?$

- (a) 32
- (b) 36
- (c) 34
- (d) 39

Ans.(a)

Q68. A man said to a woman, "The only son of your brother, is the brother of my wife." How is that woman related to the wife of that man?

- (a) Aunt
- (b) Sister
- (c) Mother
- (d) Grandmother

Ans.(a)

Q69. Rajan is younger than his father by 20 yr . 5 yr ago his father was 3 times elder than him. Find the present age of his father.

- (a) 25 yr
- (b) 30 yr
- (c) 35 yr
- (d) 36 yr

Ans.(c)

Q70. Barun is taller than Sanjay. Bipul is taller than Barun. Krishna is also not as tall a Bipul, but is taller than Barun. Who is the tallest?

- (a) Barun
- (b) Bipul
- (c) Krishna
- (d) Sanjay

Ans.(b)

Q71. If January 1 is a Friday, what is the first day of the month of March in a leap year?

- (a) Tuesday
- (b) Wednesday
- (c) Thursday
- (d) Friday

Ans.(a)

Q72. Rahim started from point X and walked straight 5 km in West, then turned left and walked straight 2 km and again turned left and walked straight 7 km. In which direction is he from the point X?

- (a) North-East
- (b) South-West
- (c) South-East
- (d) North-West

Ans.(c)

Q73. Nitin correctly remembers that Nidhi's birthday is before Friday but after Tuesday. Deepak correctly remembers that Nidhi's birthday is after Wednesday but before Saturday. On which of the following day does Nidhi's birthday definitely fall?

- (a) Monday
- (b) Tuesday
- (c) Friday
- (d) Thursday

Ans.(d)

Q74. If $9 * 7 = 32$, $13 * 7 = 120$, $17 * 9 = 208$, then $19 * 11 = ?$

- (a) 64
- (b) 160
- (c) 240
- (d) 210

Ans.(c)

Q75. If $5 \times 3 \times 9 = 395$, $9 \times 7 \times 5 = 759$ then, $7 \times 6 \times 4 = ?$

- (a) 674
- (b) 476
- (c) 647
- (d) 764

Ans.(c)

Q76. Five friends P, Q, R, S and T are sitting in a row facing North. Here, S is between T and Q and Q is to the immediate left of R. P is to the immediate left of T. Who is in the middle?

- (a) S
- (b) T
- (c) Q
- (d) R

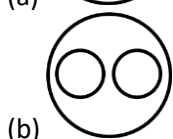
Ans.(a)

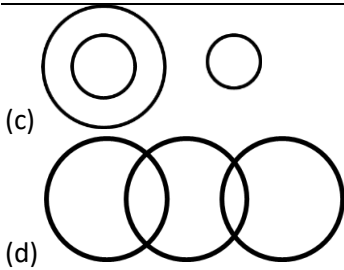
Q77. Rachit starts walking towards North. After walking 15 m he turns towards South and walks 20 m. He then turns towards East and walks 10 m. Then, again he walks 5 m towards North. How far is he from his starting point and in which direction?

- (a) 10 m, West
- (b) 5 m, East
- (c) 5 m, North
- (d) 10 m, East

Ans.(d)

Q78. Which of the following figure represents the correct relationship among lawyers, women and doctors.





Ans.(d)

Q79. Pointing towards a boy, Veena said, "He is the son of only son of my grandfather". How is that boy related to Veena?

- (a) Uncle
- (b) Brother
- (c) Cousin
- (d) Data inadequate

Ans.(b)

Q80. Arrange the following words in a logical sequence.

1. Country
 2. Furniture
 3. Forest
 4. Wood
 5. Trees
- (a) 1, 3, 5, 4, 2
 - (b) 1, 4, 3, 2, 5
 - (c) 2, 4, 3, 1, 5
 - (d) 5, 2, 3, 1, 4

Ans.(a)

Q81. Choose the correct alternative from the given one that will complete the series.

- 5, 11, 23, 47, 95, ?
- (a) 190
 - (b) 161
 - (c) 169
 - (d) 191

Ans.(d)

Q82. Choose the correct alternative from the given one that will complete the series.

- 2, 8, 18, 32, 50, ?
- (a) 64
 - (b) 72
 - (c) 70
 - (d) 68

Ans.(b)

Q83. If in a certain code language 'PICK' is written as 'OQHJBDJL', then how will 'FLAT' be written in that language?

- (a) EGKMZBSU
- (b) EGKMZBUS
- (c) EGKMBZSU
- (d) EKGMZBSU

Ans.(a)

Q84. If in a certain code, 'DAUGHTER' is written as 'TERDAUGH', then how will 'APTITUDE' be written in that code?

- (a) DEUAPTIT
- (b) UDEAPTIT
- (c) DUEAPTIT
- (d) DAUEPTIT

Ans.(b)

Q85. Ajay went 15 km to the West from his house, then turned left and walked 20 km. He then turned East and walked 25 km and finally turning left he covered 20 km. How far is he now from his house?

- (a) 15 km
- (b) 20 km
- (c) 25 km
- (d) 10 km

Ans.(d)

Q86. In a certain code language, BAT is written YZG. How will SICK be written in that same code?

- (a) HRYV
- (b) HRZP
- (c) HRXP
- (d) RHPX

Ans.(c)

Q87. If white is called 'blue', blue is called 'red', red is called 'yellow', yellow is called 'green', green is called 'black', black is called 'violet' and violet is called 'orange', then what would be the colour of human blood?

- (a) Red
- (b) Green
- (c) Yellow
- (d) Violet

Ans.(c)

Q88. If $3 * 5 * 6 = 92536$ and $2 * 4 * 9 = 41681$, then $7 * 8 * 10$ is equal to

- (a) 6410049
- (b) 813625
- (c) 98164
- (d) 4964100

Ans.(d)

Q89. Find the missing number from the given responses.

1	2	3
4	5	6
7	8	9
27	38	?

- (a) 52
- (b) 51
- (c) 50
- (d) 49

Ans.(b)

Q90. In this question, which one of the given responses would be a meaningful order of the following words.

1. Act

- 2 Listen
3. Analyse
4 Observe
5. Judge
(a) 3 , 1 , 4 , 5 , 2
(b) 4 , 2 , 3 , 5 , 1
(c) 5 , 4 , 1 , 3 , 2
(d) 1 , 5 , 4 , 2 , 3
Ans.(b)

Q91. From the given alternatives select the word which cannot be formed by using the letters of the given word.
IMPASSIONABLE
(a) IMPASSABLE
(b) IMPOSSIBLE
(c) IMPASSIVE
(d) IMPASSION
Ans.(c)

Q92. In a row of boys, Amar is 7th from the left and Vivek is 12th from the right. If they interchange their positions, Amar becomes 22nd from the left. How many boys are there in the row?
(a) 19
(b) 31
(c) 33
(d) 34
Ans.(c)

Q93. M is the son of P, Q is the grand-daughter of O, who is the husband of P. How is M related to O?
(a) Son
(b) Daughter
(c) Mother
(d) Father
Ans.(a)

Q94. Select the one, which is different from the other three responses.
(a) 32-41
(b) 62-44
(c) 46-28
(d) 33-56
Ans.(d)

Q95. Select the one, which is different from the other three responses.
(a) Sports : Ground
(b) Cinema : Screen
(c) Drama : Stage
(d) Rubber : Erase
Ans.(d)

Q96. In the following questions, each question has a number series, out of which one number in the series is not in order. You have to identify that number.
541 , 514 , 312 , 743 , 945 , 816
(a) 312

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- (b) 945
- (c) 816
- (d) 541

Ans.(c)

Q97. Find the missing number in the following series:

3, 8, 15, 24, ?, 48

- (a) 35
- (b) 33
- (c) 28
- (d) 22

Ans.(a)

Q98. Select the related word from the given alternatives.

Dream : Reality :: Rational : ?

- (a) Untruth
- (b) Logical
- (c) Sensible
- (d) Correctness

Ans.(a)

Q99. Select the related number from the given alternatives.

11 : 121 : 110 :: 15 : 225 : 210 :: ?

- (a) 9 : 81 : 70
- (b) 18 : 324 : 306
- (c) 17 : 288 : 272
- (d) 16 : 255 : 239

Ans.(b)

Q100. A is the mother of C who is not the son. C has a daughter E. A is married to F. F has a son B who has a son D.

What is the relation of D and E?

- (a) Daughter
- (b) Mother
- (c) Cousin
- (d) Sister

Ans.(c)