

FIITJEE

MAHARASHTRA

NATIONAL TALENT SEARCH EXAMINATION, 2019-20

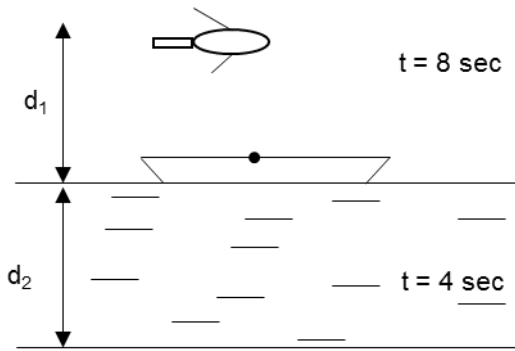
STAGE – 01

SCHOLASTIC APTITUDE TEST (SAT)

FIITJEE SOLUTIONS

PHYSICS SOLUTION

1. 4
Time of flight,
 $T = \frac{2u}{g} \Rightarrow u = \frac{T \times g}{2}$
 $u = \frac{8 \times 10}{2} \Rightarrow 40 \text{ ms}^{-1}$
Max. height reached, $H = \frac{u^2}{2g} = \frac{(40)^2}{2 \times 10} = 80 \text{ m}$
2.
Specific heat capacity of water = $1 \text{ cal/g}^{-\circ} \text{C}$
Latent heat of fusion of ice = 80 cal/g
Latent heat of vaporization of water = 540 cal/g
Let final temperature of mixture be $T^{\circ} \text{C}$
Taking reference temperature as 0°C
Heat taken from steam = $200 \times 540 + 200 \times 1 \times 100 = 128000 \text{ cal}$
Heat given to ice to convert into water at 0°C
 $= 800 \times 80$
 $= 64000 \text{ cal}$
Remaining heat to be given to mixture
 $128000 - 64000$
 $= 64000 \text{ cal}$
 $\therefore 64000 = (800 + 200) \times 1 \times (T - 0)$
 $T = 64^{\circ} \text{C}$
3. 2
Rods work in low light conditions to help night vision, but cones work in day light and are responsible for colour discrimination.
4. 1



$$d = d_1 + d_2$$

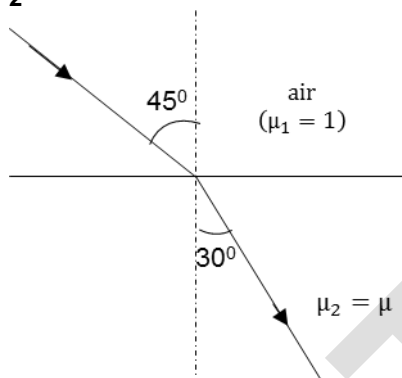
$$= \frac{350 \times 8}{2} + \frac{1500 \times 4}{2}$$

$$= 4400 \text{ M}$$

$$= 4.4 \text{ KM}$$

5. 3 theoretical

6. 2



Using Snell's law,

$$1 \times \sin 45^\circ = \mu \times \sin 30^\circ$$

$$\mu = \sqrt{2} = \frac{C}{V}$$

$$V = \frac{3 \times 10^8}{\sqrt{2}}$$

$$V = 2.12 \times 10^8 \text{ m/s}$$

7. 2 theoretical

8. 2

$$R = \frac{V^2}{P_1} = \frac{(220)^2}{1320}$$

$$i_1 = \frac{V}{R} = \frac{220 \times 1320}{(220)^2} \Rightarrow 6 \text{ A}$$

Now, at low temp., $i_2 = i_1 / 3 = 2 \text{ A}$

$$P_2 = Vi_2$$

$$\therefore \text{Power used, } = 200 \times 2$$

$$= 440 \text{ W}$$

9. 4

$m = 250 \text{ kg}$, $t = 60 \text{ sec}$, $h = 150 \text{ m}$

$$\text{Power of pump, } P = \frac{mgh}{t} = \frac{250 \times 10 \times 150}{60}$$

$$P = \frac{250 \times 10 \times 150}{60 \times 746} \text{ (H.P.)}$$

$$= 8.38 \text{ H.P.}$$

∴ Required power should be 9 H.P.

10. 3

$$\text{Constant temperature} = \frac{80 + 50}{2} = 65^\circ\text{C}$$

On touching, heat exchange by conduction without touching, heat exchange by radiation.

11. 1

For lens,

$$V = \frac{uf}{u+f} \Rightarrow \frac{12 \times 20}{-12 + 20}$$

$$V = -30 \text{ cm}$$

for mirror, object distance = 30 + 10 ⇒ 40 cm

∴ Final image = 40 cm behind mirror.

12. 4

theoretical

13. 1

Power of combination :

$$P = P_1 + P_2 + P_3$$

$$2.7 = 2.5 + 1.7 + P_3$$

$$P_3 = -1.5 \text{ D}$$

$$\therefore F_3 = \frac{100}{P_3} = \frac{10.0}{-1.5}$$

$$= -66.66 \text{ cm}$$

NOTE:

Answer of Q.NO. 2 is coming 64°C.

Q.NO. 5, 7, 12 are theoretical and hence no solutions are required for these questions.

CHEMISTRY SOLUTION

14. 3

(Group 13 – 18) P-block elements.

15. 2

Platinum exist in free state.

16. 4

Ethanoic acid is known as Glacial Acetic Acid.

17. 3

Trans Uranic element.

18. 3

C₂H₂ ethyne

19. 1

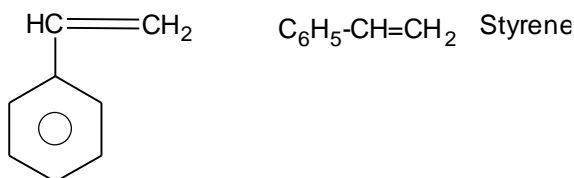
3422 melting point of Tungsten.

20. 3

NH₄OH - Weak base due to less ionisation

21. 2 C₆H₆

22. 1



23. 4
60 – 70 carbon % in lignite.
24. 4
Copper sulphate solution
25. 4
Aqua regia (HCl : HNO₃)
26. 2
Colourless due to formation of ZnSO₄ (Bonus)

BIOLOGY SOLUTION

27. (2)
Mutation is a sudden change which occurs in any nucleotide sequence
28. (3)
During Anaphase step of mitosis, centromeres split and thereby sister chromatids of each chromosome separate and they are pulled apart in opposite direction.
29. (3)
In the given figure, labelled part C is Cowper's gland.
30. (1)
Zygote formation step takes place during sexual reproduction while other three are types of asexual reproduction.
31. (3)
Red panda and musk deer are rare species.
32. (2)
Planaria is an example of animal in phylum Platyhelminthes.
33. (4)
Octopus belonging to phylum Mollusca can perform three types of locomotion swimming, creeping and walking.
34. (1)
Saccharomyces cerevisiae is used in preparing beverage cider by fermenting juice in apple.
35. (3)
Aspergillus niger is used to prepare chocolates and toffees from sugar molasses and salt.
36. (2)
Golden Rice is a variety of rice produced through genetic engineering to synthesize vitamin A (Beta Carotene)
37. (4)
Maharashtra is the first state to start a separate cyber crime unit.
38. (1)
Impact of disaster → Response → Resurgence → Preparation → Redemption → Preparedness
39. (1)
Turner's syndrome is a chromosomal disorder in which a female is born with only one X chromosome, 44+ X0
40. (3)
Clostridium bacteria causes spoilage of cooked/tinned food causing food poisoning.

SOCIAL STUDIES

41. 1
 42. 4
 43. 2
 44. 4
 45. 3
 46. 4
 47. 1
 48. 2
 49. Bonus
 50. 4
 51. 3
 52. 2
 53. 1
 54. 1
 55. 4
 56. 2
 57. 3
 58. 1
 59. 4
 60. 2
 61. 4
 62. 1
 63. 4
 64. 4
 65. 2
 66. 3
 67. 4
 68. 2
 69. 3
 70. 2
 71. 4
 72. 1
 73. 3
 74. 4
 75. 4
 76. 2
 77. 3
 78. 3
 79. 1
 80. 2

MATHS SOLUTION

81. Numbers divisible by 7 are
 7, 14, 21, 994

$$\begin{aligned} \therefore a_n &= 7 + (n-1)7 \\ 994 &= 7[1+n-1] \\ n &= 142 \\ \therefore S_{142} &= \frac{142}{2}[7+994] \\ &= 71071 \end{aligned}$$

82. Dividend
 = 20% of 100×160
 = 20×160
 = 3200
 Return % = $\frac{3200}{19200} \times 100$
 = 16.67%

$$83. \quad \frac{x^2(x+7)-1(x+7)}{(x-1)(x+7)} = \frac{(x-1)(x+1)(x+7)}{(x-1)(x+7)}$$

$$= x+1$$

84. Suppose speed of boat = x km/hr

Speed of stream = y km/hr

$$\therefore (x+y)3 = 30 \Rightarrow x+y = 10$$

$$(x-y)5 = 30 \Rightarrow x-y = 6$$

On Adding

$$\Rightarrow 2x = 16$$

$$x = 8$$

Speed of boat = 8 km/hr

$$85. \quad \text{Difference} = 5_{\text{even}} - 5_{\text{odd}}$$

$$= (2+4+6+\dots+1000) - (1+3+5+\dots+999)$$

$$= \frac{500}{2}[2+1000] - \frac{500}{2}[1+999]$$

$$= \frac{500}{2}[1002-1000]$$

$$= 500$$

$$86. \quad \text{Median} = L + \frac{\left[\frac{N}{2} - cf\right]}{f} \times h$$

$$= 50 + \frac{\left[\frac{50-38}{18}\right] \times 10}{1}$$

$$= 50 + 6.67$$

$$= 56.67$$

$$87. \quad (21-x)(35-x) = (27-x)^2$$

$$\Rightarrow 27^2 - 54x + x^2 = 21 \times 35 - 21x - 35x + x^2$$

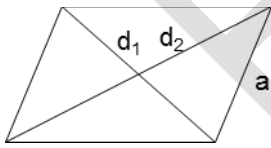
$$\Rightarrow 2x = 21 \times 35 - 27^2$$

$$2x = 6$$

$$x = 3$$

$$x^2 = 9$$

$$88. \quad d_1 - d_2 = 4$$



$$\frac{1}{2}d_1d_2 = 96$$

$$d_1d_2 = 192$$

$$\therefore \left(\frac{d_1}{2}\right)^2 + \left(\frac{d_2}{2}\right)^2 = a^2 \Rightarrow d_1^2 + d_2^2 = 4a^2$$

$$\Rightarrow (d_1 - d_2)^2 + 2d_1d_2 = 4a^2$$

$$a^2 = 100$$

$$\Rightarrow a = 10$$

89. Suppose speed of boat = x km/hr

Speed of stream = y km/hr

$$\therefore (x+y)3 = 30 \Rightarrow x+y = 10$$

$$(x-y)5 = 30 \Rightarrow x-y = 6$$

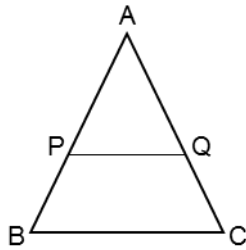
On adding

$$\Rightarrow 2x = 16$$

$$x = 8$$

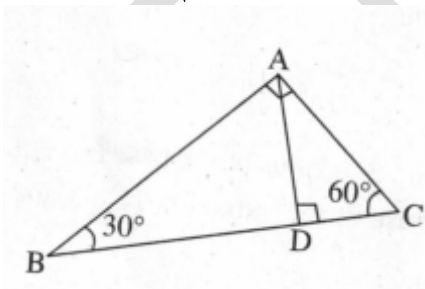
90. $\begin{vmatrix} 3\sqrt{5} & 6 \\ 5 & m \end{vmatrix} = 0$
 $3\sqrt{5}m - 30 = 0$
 $3\sqrt{5}m = 30$
 $M = \frac{10}{\sqrt{5}} = 2\sqrt{5}$

91. Suppose



$AP = C$
 $PB = a$
 $AB = b$
 $\therefore \frac{C^2}{b^2} = \frac{1}{2}$
 $\frac{C}{b} = \frac{1}{\sqrt{2}}$
 $\frac{b-a}{b} = \frac{1}{\sqrt{2}}$
 $1 - \frac{a}{b} = \frac{1}{\sqrt{2}}$
 $\frac{a}{b} = 1 - \frac{1}{\sqrt{2}} = \frac{\sqrt{2}-1}{\sqrt{2}} = \frac{2-\sqrt{2}}{2}$

92. $\frac{AD}{BD} = \tan 30^\circ = \frac{1}{\sqrt{3}}$



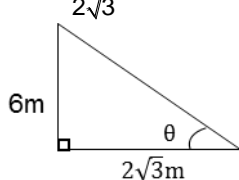
$AD = K$
 $BD = \sqrt{3}K$
 $AB^2 = K^2 + (\sqrt{3}K)^2$
 $AB = 2K$
 Now
 $\frac{AD}{DC} = \tan 60^\circ = \sqrt{3}$
 $\frac{K}{DC} = \sqrt{3} \Rightarrow DC = \frac{K}{\sqrt{3}}$
 $AC = \sqrt{\frac{K^2}{3} + K^2} = K \cdot \frac{2}{\sqrt{3}}$

$$\begin{aligned} \therefore \frac{\text{Per}(\triangle ABD)}{\text{Per}(\triangle ACD)} &= \frac{K + \sqrt{3}K + 2K}{\frac{2}{\sqrt{3}}K + \frac{K}{\sqrt{3}} + K} \\ &= \frac{(3 + \sqrt{3})\sqrt{3}}{3 + \sqrt{3}} \\ &= \sqrt{3} : 1 \end{aligned}$$

93. $\angle APT = \angle TQB$
Which are alternate angles
 $\therefore PA \parallel QB$

94. On x-axis, ordinate is zero
 $\therefore Q$ and S lie on X-axis
So, P, R, T don't lie on X-axis

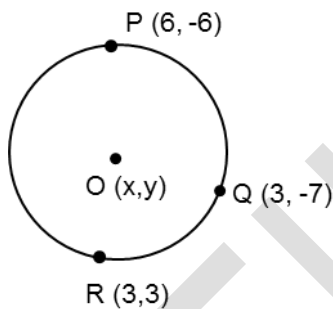
95. $\tan \theta = \frac{6}{2\sqrt{3}}$



$$= \sqrt{3}$$

$$\theta = 60^\circ$$

96. Suppose centre is $O(x, y)$



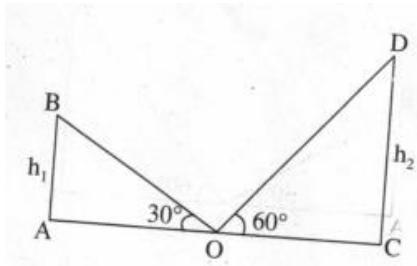
$$\begin{aligned} \therefore OP^2 &= OQ^2 = OR^2 \\ \Rightarrow (x-6)^2 + (y+6)^2 &= (x-3)^2 + (y+7)^2 = (x-3)^2 + (y-3)^2 \\ \Rightarrow x^2 + 36 - 12x + y^2 + 36 + 12y & \\ = x^2 + 9 - 6x + y^2 + 9 - 6y & \quad \text{I} \\ = x^2 + 9 - 6x + y^2 + 49 + 14y & \quad \text{II} \end{aligned}$$

Comparing I and II
 $\Rightarrow -6x + 18y = -54$
 $-x + 3y = -9$

And taking last two
 $-20y = 40$
 $y = -2$

97. $\frac{1}{3} \pi (7)^2 \times 9 = 11 \times 6 \times h$
 $h = 7 \text{ cm}$

98. $\frac{h_1}{x} = \tan 30^\circ$



$$h_1 = x \times \frac{1}{\sqrt{3}} = \frac{x}{\sqrt{3}}$$

And

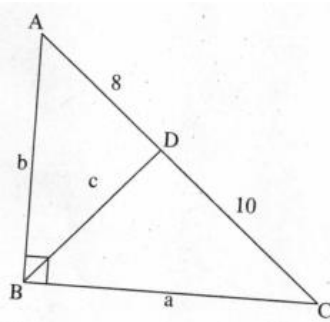
$$\frac{h_2}{x} = \tan 60^\circ = \sqrt{3}$$

$$h_2 = \sqrt{3}x$$

$$\therefore \frac{h_1}{h_2} = \frac{x/\sqrt{3}}{\sqrt{3}x} = \frac{1}{3}$$

99. $\frac{4}{3}\pi(3)^3 = \pi\left(\frac{2}{10}\right)^2 h$
 $h = 9\text{m}$

100. $\triangle ABD \sim \triangle ACB$



$$\frac{AB}{AC} = \frac{BD}{CB} = \frac{AD}{AB}$$

$$\frac{b}{18} = \frac{c}{a} = \frac{8}{b}$$

$$b^2 = 18 \times 8$$


$$b = 12$$

FIITJEE

MAHARASHTRA NATIONAL TALENT SEARCH EXAMINATION, 2019-20 STAGE – 01

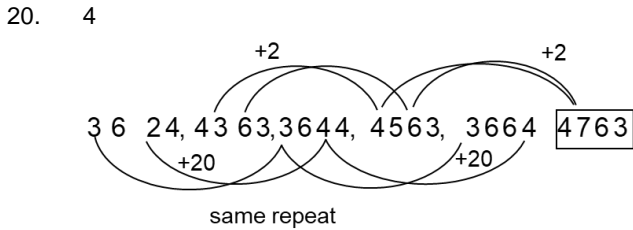
MENTAL ABILITY (MAT)

FIITJEE SOLUTIONS

1. 1
Sum of digits are multiple of 3.
2. 1
 $5^3 + 7 = 132$, $9^3 + 7 = 736$, $7^3 + 7 = 350$
 $\therefore 6^3 + 7 = 223$
3. 2
Sum of digits = 13 ($1+9+3=13$, $4+5+4=13$, $4+5+4=13$, $2+6+5=13$)
4. 4
Alternate letter has difference of 2, except 4(AWCZ)
5. 3 →
sum of all letter position is multiple of 3.
6. 4
Save → EVAS
7. Bonus all fig. are incorrect order.
8. 3
By observation  → reverse order in option 3
9. Bonus [all fig. are possible]
10. 1
The sum of the digits of the no. in each pair is the same
 $1+1+5+2+9=10$, $7+2+1+3+5=18$
Similarly, $1+5+2+9+4+3=24$, $2+1+3+5+4+9=24$
11. 2
Opposite element = "-" so it cannot be adjacent to it".
12. 3
< is opposite of D
13. 4
Opposite elements cannot be adjacent.
14. 3
Outer element comes inside.
15. Bonus 1, 2, 3, are same option

FIITJEE – THE FUNDAMENTAL APPROACH...

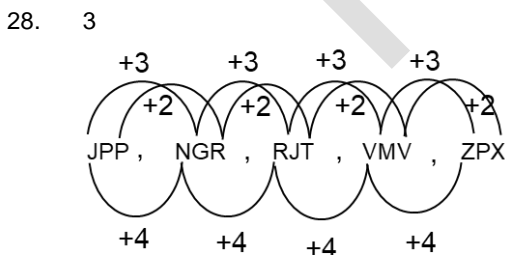
16. 3
Analogical figure.
17. 4
 $4 \times 2 - 2 = 6, 6 \times 3 - 2 = 16, 16 \times 4 - 2 = 62, 62 \times 5 = 310, -2 = 308, 308 \times 6 - 2 = 1846$
18. 3
Alternate series of +12, +24, +48
19. 1
+6, +12, +18, +24, +30



21. 1
22. 4
23. 4
- | | | | |
|----------|----------|----------|---------|
| ATUL | TUSHAR | AMAR | NISHANT |
| CRICKET | CRICKET | CRICKET | ⊗ |
| FOOTBALL | FOOTBALL | FOOTBALL | ⊗ |
| ⊗ | KABBADI | KABBADI | KABBADI |
| ⊗ | ⊗ | KHO-KHO | KHO-KHO |

24. 3
abc | bca | cab | abc
25. 2
abba | baab | abba | baab

26. 3
By observation
27. 2
By observation

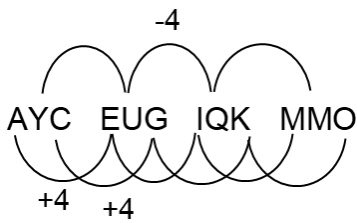


29. 2
 $J_{1610}P$ J = 10, P = 16



30. 1
Addition of place of letter

∴ $29 = A + Y + C = 1 + 25 + 3$
 ∴ $MMO = 13 + 13 + 15, MMO = 41$



31. 4
Needs to check initial 2 terms are matching.
32. 4
33. 2
34. 4
35. 1
By putting the value.
36. 2
By putting the value.
37. 3.
38. 2
[Substituting value at the place of symbol and after mathematical operation again replacing value with symbol.]
39. 2
Continuous sequence.
40. 3
By observation
41. 2
10 is common in all four.
42. 4
32 only in ACTING.
43. 2
 $97 = 21 + 14 + 12 + 15 + 35$
44. 2
By observation
45. 4
By observation
46. 2
- | | |
|--|-----------------|
| | -7
7-
=77 |
| | 10
6-
=70 |
| | 18
5-
=68 |
47. 4

$$\begin{aligned}
 &8 \times 9 + 7 \times 5 \\
 &72 + 35 \\
 &= 107 \times 2 = 214 \\
 &7 \times 3 + 6 \times 4 \\
 &= 21 + 24 \\
 &= 45 \times 2 \\
 &= 90 \\
 &3 \times 6 + 4 \times 9 \\
 &18 + 36 \\
 &= 54 \times 2 \\
 &= 108
 \end{aligned}$$

48. 3
 $98 - 64 = 34 \Rightarrow$ By pattern given in question.

49. 4
 $7 + 4 = 11 \rightarrow 11^2 = 121$
 By pattern given in question.

50. 2
 $45 + 81 = 126$
 By pattern given in question.

51. 2

52. 4

53. 2
 K M F : L L H :: R M S :
 1113 6 1212 8 1813 19
 $\begin{array}{ccc} |_{+1} & |_{-1} & |_{+2} \\ 12128 & & 191221 \\ & & S L U \end{array}$

54. 2
 ADE : F G J : K N O : P Q T
 1 4 5 6 7 10 11 14 15 16 17 20
 PQT

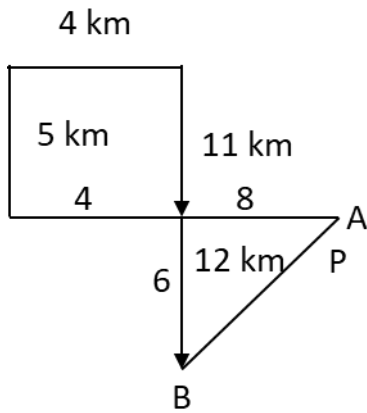
55. 4
 2:A L K L O :: W O U L D :: T L R I A
 $\begin{array}{ccccccc} 1 & 12 & 11 & 12 & 15 & 23 & 15 \\ & +3 & & & & & +3 \\ 4 & 15 & 14 & 15 & 18 & & \end{array}$
 D O N O R

56. 1
 4, 9 (5)² 5
 $\begin{array}{ccc} F & J & 25 & 16 & NS \\ 6 & 10 & & & \Rightarrow (F-J) = (4)^2 = 16 \end{array}$
 $\begin{array}{ccc} L & Z & 25 & 196 & SX \\ 12 & 16 & & & \end{array}$
 NQ ? ? W% $\Rightarrow N-Q$
 $(N-Q)^2 = (14-17)^2 = 9$
 $(W-Y)^2 = (23-25)^2 = 4$
 NQ 4 9 W%

57. 3
 $\begin{array}{ccc} 1 & A & M(13) & Q17 \\ 1+2 & & 1+8 & \\ 3 & C & Li(21) & E 5(31) |_{+14} \\ & & 1+10 & \\ 1+4 & G & E5(31) & (47)(21) = U \end{array}$

58. 2
 59. 3
 60. 3

North



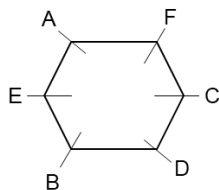
61. 4
 $OA = (12 - 4) = 8 \text{ km}$
 $OB = (11 - 5) = 6 \text{ km}$
 $AB = \sqrt{(8)^2 + (6)^2} = \sqrt{100} = 10 \text{ km}$

62. 1
 hab : mgf :: jicd : ?
 Ranking of respective letter from left side is equal to ranking of letter from right.
 jicd : kled

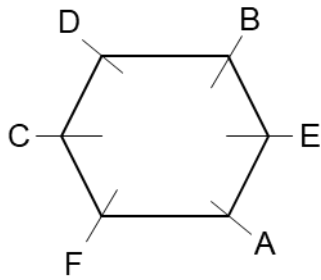
63. 1
-
- bza : bwy :: bsv : bnr

64. 2
 wsop : yvqp : ptw :
 Ranking of letter from left side is equal to ranking of letter from right.
 ptw = puy p

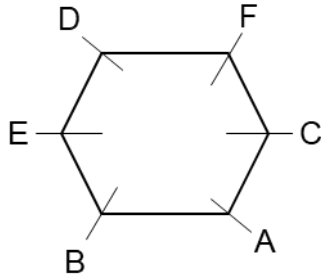
65 – 67



65. 1 (A)
 66. 4(C)



67. 1(A)



68. 2

69. 1

70 – 71

SOL. Ten years ago, the ratio of ages of sunil and anil was 1 : 7.

Let their ages would be x & $7x$.

So, present age of Sunil and Anil are $(x+10)$ & $(7x+10)$

Ten years hence, the ratio of their ages will be 1 : 2.

So,

$$\frac{x+20}{7x+20} = \frac{1}{2}$$

$$2x+40 = 7x+20$$

$$20 = 5x$$

$$x = 4$$

70. 1

Sunil's present age $x+10 = 4+10 = 14$ years

71. 2 Ten years before Anil's age = $7x = 7 \times 4 = 28$.
(2) 28 years

72. - 73

AMRUTA (11) ↓

SUNEETA (26) ↑

Total 60.

Amrita is 11th from front.

Suneeta is at 26th place from behind, so

Suneeta is $60+1-26 = 35$ th from front.

Sapna is at central place between Amrita & Suneeta.

72. Sapna is at $\frac{11+35}{2} = \frac{46}{2} = 23$ th from front.

Ans (3) 23

73. Sapna's is ranking from behind = $60+1-23 = 38$

Ans(2) 38

74. Ans (2)

75. Ans (3)

76. 4
 17 (68) 28
 11 (22) 14
 49 9
 Sol $\frac{17 \times 28}{7} = 68$
 $\frac{11 \times 14}{7} = 22$
 $\frac{49 \times 9}{7} = 63$

77. 3
 24(7)67
 53(6)25
 82 35
 $\frac{24+67}{13} = \frac{91}{13} = 7$
 $\frac{53+25}{13} = \frac{78}{13} = 6$
 $\frac{82+35}{13} = \frac{117}{13} = 9$
 Ans.(3)9

78 TO 80

78. 2
 AUEFG EOVWX IAPQR
 Sol. First two letters are vowel and next three letters are consecutive

So, Ans 2 UEJKL which have same property.

79. 3
 XZAVT WUESQ TRUPN
 $\frac{26}{2} \frac{24}{2} \frac{20}{2} \frac{20}{2} \frac{23}{2} \frac{21}{2} \frac{19}{2} \frac{17}{2} \frac{20}{2} \frac{18}{2} \frac{16}{2} \frac{17}{2}$
 First two letter have difference of 2 and same as last two letters & middle one is vowel.
 So, Ans LJOHF

80. 2
 BYMN DWJZ GTKP
 All letters are consonants
 So, Ans (2) CXHS

81 – 83

ACTIVE = 91) CEVKXG

A C T I V E = (1) C E V K X G

13 20 9 22 5 $\xrightarrow{+2}$ 3 5 22 11 24 7

A C T I V E = (2) E F V K Y I

1 3 20 9 22 5 5 6 22 11 25 9

$\xrightarrow{+4+3+2+2+3+4}$

A C T I V E = (3) X Z Q F S B

$\xrightarrow{-3/+23}$

1 3 20 1 22 5 24 26 17 6 19 2

$\xrightarrow{2+3+4+5+6+7}$

81. 2

GOLDEN = KRNFHR

715124514 1118 146818

$\xrightarrow{+4+3+2+2+3+4}$

82. 3

ORANGE = L O X K D B

151311475 1215241142

$\xrightarrow{-3/+23}$

83. 1

PURPLE = R W T R N G

1621181612518232918147

$\xrightarrow{+2}$

(1)

84. 1

85. 2

86 – 87

 -3

 -4

 -6

 -2

 -9

 -1

 -8

 -5

 -7

86. 3 (2356)

87. 4

88. 3

Letter : A T M G O D N R S

Digits: 9 8 7 6 5 4 3 2 1

Donar = 4 5 3 9 2

Ans .3

89. 3

90. 1

91.

$$88 - 7 = 39 \Rightarrow 88 - (7)^2 = 88 - 49 = 39$$

$$77 - 6 = 41 \Rightarrow 77 - (6)^2 = 77 - 36 = 41$$

$$99 - 25 = 74 \Rightarrow 99 - (5)^2 = 99 - 25 = 74$$

$$\text{So, } 55 - 4 \Rightarrow 55 - (4)^2 = 55 - 16 = 39$$

Ans(2)39

92.

$$8 + 6 = 42 \Rightarrow 8 \times 6 - 6 = 42$$

$$7 + 5 = 30 \Rightarrow 7 \times 5 - 5 = 30$$

$$9 + 3 = 24 \Rightarrow 9 \times 3 - 3 = 24$$

So,

$$6 + 4 = 24 - 4 = 20$$

Ans(2)20

93 – 95

93. 2

94. 3

Sol. Total no. of cubes = 60

cubes have one face coloured = 24

cubes have no face coloured = 8

So, cubes have atleast two faces coloured

$$= 60 - (24 + 8)$$

$$= 60 - 32$$

$$= 28$$

95. 3

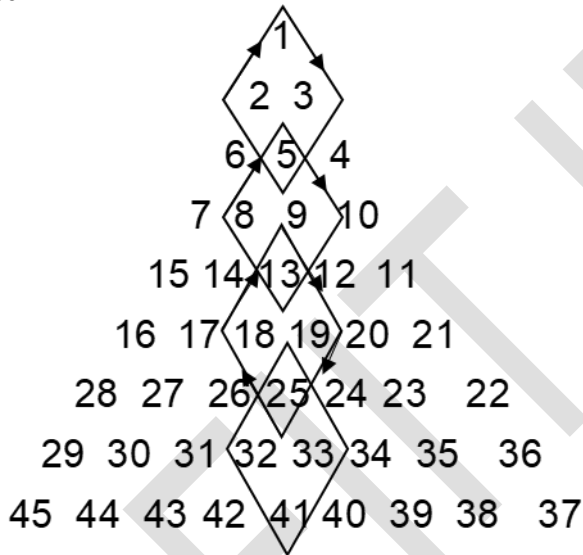
24

96 – 97

96. 2

97. 2

98 – 100



98. 1

1352 : 13 19 25 18 :: 5 9 13 8 :: 25 33 41 32

25334132

99. 163044 : 213538 :: 173143 : 203439

Sol. Rank of digit from left side is equal to rank of digit from right side.

Ans. (2) 20 39 39

100. 28 16 27 : 22 21 23 :: 29 28 30 : 36 22 35

Rank of digit from left side is equal to rank of digit from right side in a same line.

FIITJEE