Quiz Date: 10th April 2020

Directions (1-5): In the following series find the term which is placed incorrectly.
Q1. 0, 4, 19, 48, 100, 180, 294
(a) 19
(b) 100
(c) 294
(d) 48
(e) 180

Q2. 1, 2, 7, 34, 202, 1420
(a) 7
(b) 34
(c) 202
(d) 2
(e) 1
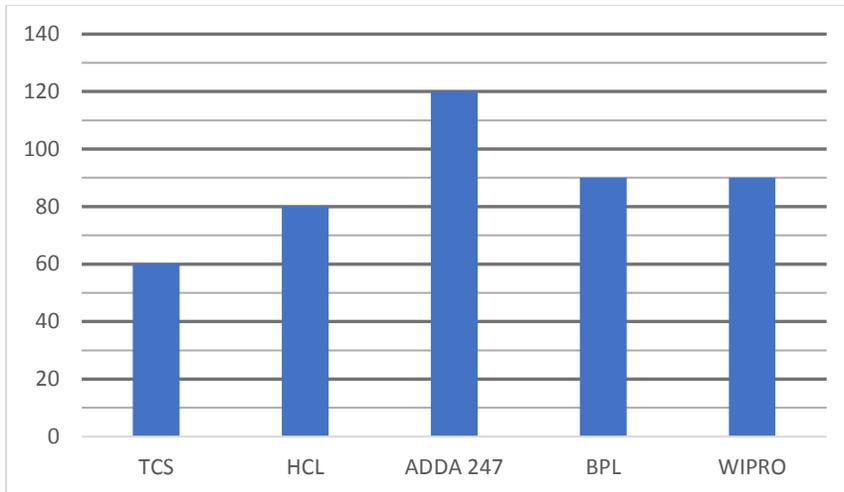
Q3. 823, 724, 647, 592, 559, 549
(a) 549
(b) 647
(c) 559
(d) 592
(e) 724

Q4. 1, 4, 11, 34, 102, 304, 911
(a) 11
(b) 911
(c) 102
(d) 34
(e) 304

Q5. 5, 8, 20, 42, 124, 246, 736
(a) 20
(b) 124
(c) 8
(d) 42
(e) 736

Directions (6-10): The bar graph given below shows the total number of employees who are working in different companies of their Delhi branch and the table shows the percentage of employees who got their incentive in each company.

COMPANY	%
TCS	66 ⅔
HCL	25
ADDA 247	80
BPL	33 ⅓
WIPRO	33 ⅓

Q6. What is the percentage of employees in HCL and ADDA 247 together who got their incentive out of total employees working in these two companies?
(a) 65%
(b) 58%
(c) 43%
(d) 34%
(e) 55%

Q7. If 20% of employees out of those employees of TCS who did not get their incentive are fired, then find the ratio of no. of employees who remain in TCS without getting their incentive to the number of employees who got their incentive in BPL.
(a) 2 : 15

(b) 1 : 5
(c) 8 : 15
(d) 1 : 3
(e) 8 : 5

Q8. The employees who got their incentive in Wipro are of different age – 24 years, 26 years and 28 years in ratio 3 : 1 : 2 respectively. Find the difference between number of employees of age 24 years and those who are of age 26 years out of the total employees who got their incentive in Wipro.
(a) 12
(b) 15
(c) 13
(d) 10
(e) 5

Q9. If none of the employees from each company is fired, then what's the percentage of employees in TCS, HCL, ADDA 247 and BPL together who got their incentive out of total employees working in these companies.
(a) $53\frac{1}{7}\%$
(b) $52\frac{1}{7}\%$
(c) $51\frac{1}{7}\%$
(d) $50\frac{1}{7}\%$
(e) $49\frac{1}{11}\%$

Q10. The probability of an employee who has got incentive in Wipro to leave the company is ⅓ and that of an employee who has not got incentive is ½, then find the probability of an employee in Wipro leaving the company.
(a) $\frac{2}{9}$
(b) $\frac{4}{9}$
(c) $\frac{1}{2}$
(d) $\frac{1}{3}$
(e) $\frac{5}{9}$

Direction (11 – 15): What approximate value should come in the place of question (?) mark?
Q11. $56.09 \times ? + 25.98 \%$ of $450.10 + \sqrt{15.99} = (31.08)^2$
(a) 5
(b) 25
(c) 10
(d) 15
(e) 40

Q12. $\frac{545.93}{?}$ + 56.09% of 549.92 = 28.06 % of 1249.98
(a) 17
(b) 13
(c) 21
(d) 25
(e) 28

Q13. $(12.09)^3 + (16.11)^2 - ?^2 + (26.05)^2 = (36.04)^2 - 79.98$
(a) 30
(b) 46
(c) 38
(d) 50
(e) 54

Q14. ?% of 340.09 + 11.98 % of 2174.99 + $\sqrt{3721.09}$ = $(21.09)^2$
(a) 35
(b) 42
(c) 45
(d) 30
(e) 28

Q15. 547.05 + 243.02 - ? = 24.89 % of 2584.11
(a) 128
(b) 144
(c) 120
(d) 118
(e) 156

Solutions

S1. Ans.(a)
Sol.
$1^3 - 1^2 = 0$
$2^3 - 2^2 = 4$
$3^3 - 3^2 = 18$
$4^3 - 4^2 = 48$

$5^3 - 5^2 = 100$
And so on...
So, there should be 18 instead of 19.

S2. Ans.(c)
Sol. Series is
$1 \times 3 - 1 = 2$
$2 \times 4 - 1 = 7$
$7 \times 5 - 1 = 34$
$34 \times 6 - 1 = 203$
So, there should be 203 instead of 202.

S3. Ans.(a)
Sol. Series is
823 – 99 = 724
724 – 77 = 647
647 – 55 = 592
592 – 33 = 559
559 – 11 = 548
So, there should be 548 instead of 549.

S4. Ans.(c)
Sol.
The pattern of the series is
$1 \times 3 + 1 = 4$
$4 \times 3 - 1 = 11$
$11 \times 3 + 1 = 34$
$34 \times 3 - 1 = 101 \ldots$
So, there should be 101 instead of 102.

S5. Ans.(a)
Sol.
Series is ×2–2, ×3–2, ×2–2, ×3–2...
So, there should be 22 instead of 20.

S6. Ans.(b)
Sol.
Req. Percentage $= \frac{\frac{25}{100} \times 80 + \frac{80}{100} \times 120}{(80+120)} \times 100$
$= \frac{20+96}{200} \times 100$
$= 58\%$

S7. Ans.(c)
Sol.
No. of employees in TCS who got their first incentive = ⅔ × 60 = 40

No. of employees from TCS who are fired = ⅕ × 20 = 4

Remaining employees who remain in TCS without getting their incentive = (60 – 40) – 4 = 16

Req. ratio = $\frac{16}{\frac{1}{3}\times 90}$ = $\frac{16}{30}$ = $\frac{8}{15}$

S8. Ans.(d)

Sol.

No. of employees who got their incentive in Wipro = ⅓ × 90 = 30

Req. diff. = $\frac{(3-1)}{6}$ × 30 = 10

S9. Ans.(a)

Sol.

Req. % = $\frac{\left[\frac{2}{3}\times 60+\frac{1}{4}\times 80+\frac{4}{5}\times 120+\frac{1}{3}\times 90\right]}{(60+80+120+90)}$ × 100

= $\frac{(40+20+96+30)}{350}$ × 100

= $\frac{186}{35}$ × 10

= $53\frac{1}{7}$ %

S10. Ans.(b)

Sol.

Req. Probability = $\frac{1}{3}\times\frac{1}{3}+\frac{2}{3}\times\frac{1}{2}$

= $\frac{1}{9}+\frac{1}{3}$

= $\frac{4}{9}$

S11. Ans.(d)

Sol.

$56\times? + \frac{26}{100}\times 450 + \sqrt{16} = (31)^2$

$56\times? = 961 - 4 - 117$

$? = \frac{840}{56}$

? = 15

S12. Ans.(b)

Sol.

$$\frac{546}{?} + \frac{56}{100} \times 550 = \frac{28}{100} \times 1250$$

$$\frac{546}{?} = 350 - 308$$

$$? = \frac{546}{42}$$

? = 13

S13. Ans.(c)
Sol.

$$(12)^3 + (16)^2 - ?^2 + (26)^2 = (36)^2 - 80$$

$$1728 + 256 - ?^2 + 676 = 1296 - 80$$

$$?^2 = 1444$$

? = 38

S14. Ans.(a)
Sol.

$$\frac{?}{100} \times 340 + \frac{12}{100} \times 2175 + \sqrt{3721} = (21)^2$$

$$\frac{?}{100} \times 340 + 261 + 61 = 441$$

$$\frac{?}{100} \times 340 = 119$$

? = 35

S15. Ans.(b)
Sol.

$$547 + 243 - ? = \frac{25}{100} \times 2584$$

$$790 - ? = 646$$

$$? = 790 - 646$$

? = 144

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