

## LETTER ANALOGY ：

13．MSR ：NHI ：：BJU ：？
1）YPE
2）YPF
3） YQE
4） YQF

14． $\mathrm{CMH}: \mathrm{DOK}:$ ：VQS ：？
1）WSV
2）WRQ
3）WPV
4）WSX

15．KEN ：XRA ：：BSV ：？
1）OEJ
2） OEI
3） OFI
4） OFJ

## CODING AND DECODING ：

16．In a certain code language，if MASTRO is coded as SAMORT．Then，how PUBLIC is written in that code？
1）BUPLIC
2）BUPICL
3）BUPCIL
4）BUPILC

17．In a certain code language，If $\mathrm{APEX}=23$ and $\mathrm{MENB}=17$ ，then what is the value of FOUR ？
1） 25
2） 30
3） 35
4） 40

18．If CAT is coded as BYQ．Then how is WOR is written in that code ？
1）VAO
2） VNO
3）VRO
4） VMO

## NUMBER GAME WITH DIFFERENT OPERATIONS ：

19．If $\mathrm{A} \Delta \mathrm{B}=\sqrt[3]{\mathrm{A}}+\sqrt[3]{\mathrm{B}}$ ．Then $729 \Delta 1728=$ ？
1） 21
2） 19
3） 23
4） 25

20．If $9 @ 14=529,7 @ 18=625$ ．Then $13 @ 17=$ ？
1） 961
2） 800
3） 900
4） 1600

21．If $5+7=47$ and $9+6=69$ ．Then $4+12=$ ？
1） 60
2） 64
3） 68
4） 72

22．If $6 \times 4=52$ and $7 \times 8=113$ ．Then
1） 220
2） 250
3） 270
4） 290

## CLOCKS AND CALENDAR ：

23．The next same calendar for the year 2017 is
1） 2022
2） 2023
3） 2028
4） 2025

24．Which day falls on November $14^{\text {th }}, 1956$ ？
1）Monday
2）Tuesday
3）Wednesday
4）Thursday

25．If a clock shows 3 hrs 25 min in the mirror，what is the actual time？
1） $8: 35$
2） $7: 35$
3） $9: 35$
4） $6: 35$

26．At what time between 6 and 7 ＇ O clock the two hands of the clock forms $90^{\circ}$ ？
1） $6 \mathrm{hr}, 51 \frac{2}{11} \mathrm{~min}$
2） $6 \mathrm{hr}, 49 \frac{1}{11} \mathrm{~min}$
3） $6 \mathrm{hr}, 16 \frac{4}{11} \mathrm{~min}$
4）Both 2 and 3

27．Find the angle between two hands of a clock at $4: 45$ ？
1） $112 \frac{1}{2}$ 。
2） $127 \frac{1}{2} \circ$
3） $125 \frac{1}{2}$ 。
4） $117 \frac{1}{2}$ 。

## SEATING ARRANGEMENT AND BLOOD RELATIONS :

28. Six friends $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}$ and F are sitting in a row facing towards north. C is sitting between A and $E$. D is not at the end. B is sitting immediate right to $E$. $F$ is not at the right end. Then, who is sitting immediate left of C ?
1) $A$
2) E
3) Either $E$ or $A$
4) Can not be determined
29. $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}$ and F are sitting around a round table. A is in between E and $\mathrm{F}, \mathrm{E}$ is opposite to D , and C is not in either of the neighbouring seats of E . Who is opposite to B ?
1) C
2) D
3) F
4) None
30. Anil has a brother deepak. Anil is the son of prem. Bimal is prem's father. How is deepak related to bimal ?
1) Son
2) Grand son
3) Brother
4) Grand father

## ARITHMETICAL ABILITY :

31. If p and q are natural numbers, $\mathrm{p}: \mathrm{q}=2 \frac{1}{2}: 5 \frac{1}{2}$, then which of the following values cannot be equal to $(\mathrm{p}+\mathrm{q})$ ?
1) 48
2) 80
3) 75
4) 96
32. If the compound ratio of a $: 2$ and $4: 9$ is equal to $2: 5$, then what is the value of 3 a ? [ ]
1) 4.2
2) 5.4
-3) 4.8
3) 5.2
33. $\sqrt[3]{45} \times \sqrt[3]{25}=$ ?
1) $5 \sqrt[3]{9}$
2) $5 \sqrt[3]{3}$
3) $5 \sqrt[3]{6}$
4) $5 \sqrt[3]{4}$
34. The total number of prime factors of $55^{28} \times 10^{9} \times 6^{8}$ is ?
1) 90
2) 80
3) 100
4) 110
35. What is the difference between the largest 3 digit and the smallest 3 digit number, that are both divisible by the largest two digit number?
1) 899
2) 900
3) 792
4) 846
36. If the product of two numbers is 108 and LCM is 36 then find their HCF ?
1) 3
2) 2
3) 6
4) 8
37. Two numbers are in the ratio $3: 5$ and their LCM is 60 . Then, find their HCF ?
1) 6
2) 8
3) 4
4) 2
38. Find the largest among $\sqrt[4]{6}, \sqrt{2}$ and $\sqrt[3]{4}$ ?
1) $\sqrt[3]{4}$
2) $\sqrt[4]{6}$
3) $\sqrt{2}$
4) Can not be determined
39. What percentage of 40 is equal to $20 \%$ of x ?
1) $\frac{x}{3}$
2) $\frac{x}{4}$
3) $\frac{x}{2}$
4) $\frac{x}{5}$
40. If $4^{a}=1024$, then the value of $4^{(a-2)}$ is ?
1) 16
2) 64
3) 256
4) 512
41. If $x \%$ of $y+y \%$ of $x=p \%$ of $x y$, then what is $150 \%$ of $p$ ?
1) 2
2) 3
3) 4
4) 5
42. An article is marked $40 \%$ above the cost price. By selling the article after allowing a discount a profit of $12 \%$ is obtained. What is the discount percent?
1) $20 \%$
2) $40 \%$
3) $30 \%$
4) $25 \%$
43. If $p \%$ of $q$ is equal to $r$, what percent of $r$ is $p$ ?
1) $\frac{q^{2}}{100}$
2) $\frac{100}{q}$
3) $\frac{q}{100}$
4) $\frac{10000}{q}$
44. P started a business with Rs. 30, 000. Q joined $P$ after some months by investing Rs. 45, 000. After one year, P and Q share the profits in the ratio $4: 3$ after how many months $\operatorname{did} \mathrm{Q}$ join P ?
1) 4
2) 5
3) 6
4) 8
[ ]
45. In a business. A invests Rs. 8,000 for 6 months and B invests Rs. 6000 for one year. At the end of one year A, the working partner, gets a share of Rs. 2000, including an annual salary of Rs. 1200. What is the total profit ?
1) 6000
2) 4000
3) 2000
4) 5000
46. 40 persons can complete a work in 40 days. 25 days after they start the work, 20 people have left. In how many days the remaining people can complete the remaining work ?
1) 25
2) 30
3) 20
4) 35
47. Tap A lone can fill one - fourth of a tank in 3 hours. If both the taps A and B opened simultaneously, the tank can be filled in 4 hours. If tap B alone is opened then in how many hours it can fill the tank ?
1) 8
2) 5
3) 7
4) 6
48. A man travelled from $A$ to $B$ with a speed of $24 \mathrm{~km} / \mathrm{hr}$. He covers the return journey in 6 hours by increasing his speed by $25 \%$. What is the total distance covered by him? (in km) [ ]
1) 360 km
2) 180 km
3) 240 km
4) 120 km
49. What is the least number which divides by $12,18,20$ and leaves remainder 3 in each case ?
1) 173
2) 183
3) 163
4) 193
50. A and B worked together and earned Rs. 630. If A completed $\frac{2^{\text {th }}}{5}$ of the work, then what is the share of B ? (in rupees)
1) 360
2) 378
3) 342
4) 372
