

Unit 1 OAS LPU MCQ QUESTION

Q: 01 of 30

Find the unit digit of 2354^{1048}

- (a) 4
- (b) 6
- (c) 8
- (d) None of these

Q: 02 of 30

Find the LCM of 12, 15, 72 and 75

- (a) 1800
- (b) 1500
- (c) 1440
- (d) 1040

Q: 03 of 30

When a two-digit number is reversed it gets decreased by 72, what is the number?

- (a) 81
- (b) 72
- (c) 91
- (d) 64

Q: 04 of 30

6 bells of a Church toll at different intervals of 5 seconds, 8 seconds, 10 seconds, 6 seconds, 12 seconds and 15 seconds respectively. If they toll together at 12 noon, how many times will they toll together till 1pm?

- (a) 15 times
- (b) 20 times
- (c) 31 times
- (d) None of these

Q: 05 of 30

Find the number of factors of 120

- (a) 4
- (b) 8
- (c) 12
- (d) 16

Q: 06 of 30

Find the number of factors of 330.

- (a) 2
- (b) 8
- (c) 16
- (d) 32

Q: 07 of 30

Find the number of factors of 1560.

- (a) 6

(b) 16

(c) 12

(d) 32

Q: 08 of 30

How many factors of 340 are even?

(a) 12

(b) 16

(c) 8

(d) 6

Q: 09 of 30

How many factors of 408 are even?

(a) 12

(b) 16

(c) 8

(d) 10

Q: 10 of 30

In how many ways can 120 be written as a product of two numbers?

(a) 12

(b) 8

(c) 16

(d) 10

Q: 11 of 30

In how many ways can 200 be written as a product of two numbers?

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

Q: 12 of 30

In how many ways can 840 be written as the product of 2 numbers?

- (a) 6
- (b) 16
- (c) 18
- (d) 32

Q: 13 of 30

In how many ways 12 can be written as a product of two co-prime factors?

- (a) 2
- (b) 6
- (c) 8
- (d) 6

Q: 14 of 30

In how many ways 12 can be written as a product of two co-prime factors?

- (a) 2
- (b) 6
- (c) 8
- (d) 6

Q: 15 of 30

In how many ways 320 can be written as a product of two co-prime factors?

- (a) 2
- (b) 6
- (c) 1
- (d) 5

Q: 16 of 30

Find the number of zeroes in $154!$.

- (a) 35
- (b) 31
- (c) 34
- (d) 37

Q: 17 of 30

Find the number of trailing zeroes in $56!$

- (a) 13
- (b) 11
- (c) 12
- (d) 6

Q: 18 of 30

Find the remainder when 2145123 is divided by 6.

- (a) 0

(b) 3

(c) 4

(d) 5

Q: 19 of 30

Find the number of composite factors of 42.

(a) 1

(b) 4

(c) 5

(d) 6

Q: 20 of 30

Find the number of prime factors of 300.

(a) 2

(b) 3

(c) 4

(d) 5

Q: 21 of 30

Find the number of factors of 72.

(a) 9

(b) 10

(c) 11

(d) 12

Q: 23 of 30

What is the smallest number which gives a remainder of 2 when divided by 3, 6 and 5?

- (a) 5
- (b) 8
- (c) 32
- (d) None

Q: 24 of 30

The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, then the other is:

- A.279
- B.283
- C.308
- D.318

Q: 25 of 30

The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:

- A.504
- B.536
- C.544
- D.548

Q: 26 of 30

In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?

A.6.25

B.6.5

C.6.75

D.7

Q: 27 of 30

Find the unit digit of $(347)^{82}$

(a) 9

(b) 8

(c) 3

(d) 1

Q: 28 of 30

Find the number of Prime factors of 660.

(a) 2

(b) 3

(c) 4

(d) 5

Q: 29 of 30

Find the remainder $(3^{16})/8$

(a) 1

(b) 2

(c) 3

(d) 4

Q: 30 of 30

Find the remainder $(3^{43})/16$

(a) 3

(b) 11

(c) 15

(d) 9

UNIT 2 PRACTICE TEST QUESTIONS

Two numbers A and B are such that the sum of 7% of A and 6% of B is three-fourth of the sum of 5% of A and 11% of B. Find the ratio of A: B.

(a) 9:13

(b) 2:3

(c) 5:12

(d) 7:11

Balaji spends 40% of his wage on transport, 20% on stationary materials, and 60% of the remaining on food. He saves Rs. 450, which is half of the

remaining amount after spending on the transport, stationary materials and food. How much is his wage?

- (a) Rs.1258
- (b) Rs.2625
- (c) Rs.5625
- (d) Rs.6525

Veena bought a watch costing Rs. 1404 including sales tax at 8%. She asked the shopkeeper to reduce the price of the watch so that she can save the amount equal to the tax. The reduction of the price of the watch is?

- (a) Rs.108
- (b) Rs.104
- (c) Rs.112
- (d) Rs.120

In an office there are 40% female employees. 50% of the male employees are UG graduates. The total 52% of employees are UG graduates out of 1800 employees. What is the number of female employees who are UG graduates?

- (a) 362
- (b) 412
- (c) 396
- (d) 428

Q: 05 of 30

In a school there are 2000 students. On January 2nd, all the students were present in the school except 4% of the boys and on January 3rd, all the students are

present in the school except $\frac{28}{3}\%$ of the girls, but in both the days number of students present in the school, were same. The number of girls in the school is?

- (a) 400
- (b) 1200
- (c) 800
- (d) 600

Q: 06 of 30

Two tailors X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?

- A., Rs. 200
- B., Rs. 250
- C., Rs. 300
- D., None of these

Q: 07 of 30

On selling 10 toys at Rs.525 there is a loss equal to the cost price of 3 toys. Find the cost price of each toy.

- (a) Rs.60
- (b) Rs.75
- (c) Rs.65
- (d) Rs.70

Q: 08 of 30

The marked price of a book is Rs.150. After allowing 20% discount, the loss incurred on the book is 4% .Find the cost price of the book.

- (a) Rs.125
- (b) Rs.110
- (c) Rs.140
- (d) Rs.136

Q: 09 of 30

The selling price of two articles is same, when one article is sold at 10% profit and the other at 5% loss. If the sum of their cost price is Rs.8200, then find the cost price of each article.

- (a) Rs.4000, Rs.4200
- (b) Rs.3800, Rs.4400
- (c) Rs.3600, Rs.4600
- (d) Rs.5400, Rs.2800

Q: 10 of 30

Nirmal purchased a guitar and sold it at a loss of 30%. If he had bought it for 15% less and sold it at Rs.1225 more than the previous selling price, he would have made a profit of 40%. Find the original cost price of the guitar.

- (a) Rs.2000
- (b) Rs.2500
- (c) Rs.3000
- (d) Rs.4000

Q: 11 of 30

A shopkeeper offers 30% discount on cash purchase but offers additional 20% discount if the customer uses a gift coupon for payment. A customer pays Rs.5600 using a gift coupon. Find the marked price of the article.

- (a) Rs.11000
- (b) Rs.13000
- (c) Rs.10000
- (d) Rs.12000

Q: 12 of 30

The cost of manufacturing a perfume comprises the cost of materials, labour and overheads in the ratio 5:4:3. The labour cost is Rs.200. If the perfume is sold at a price one-third more than the cost price, find the profit.

- (a) Rs.250
- (b) Rs. 150
- (c) Rs.200
- (d) Rs.300

Q: 13 of 30

Out of a sum of Rs 850, a part was lent at 6% SI and the other at 12% SI. If the interest on the first part after 2 years is equal to the interest on the second part after 4 years, then the second sum is

- A) Rs350
- B) Rs280
- C) Rs170
- D) Rs220

Q: 14 of 30

A certain sum of money amounts to rupees 2900 at 4% per annum in 4 years. In how many years will it amount to rupees 5000 at the same rate?

- A) 30
- B) 25
- C) 22
- D) 18

Q: 15 of 30

The difference between simple interest and compound interest on Rs. 1200 for one year at 10% per annum reckoned half-yearly is:

- A) Rs.3
- B) Rs.3.5
- C) Rs.4
- D) Rs.5

Q: 16 of 30

Find the principal of the interest compounded at the rate of 10% per annum for the two years is Rs. 420.

- A.Rs. 2000
- B.Rs. 2200
- C.Rs. 1000
- D.Rs. 1100

Q: 17 of 30

A man took some money for borrowed, for 3 years the total will be Rs.4000 and 5 years it will be Rs.5000/-. Then how much amount he borrowed?

- A) Rs.500/-
- B) Rs.1500/-
- C) Rs.2500/-
- D) Rs.1000/-

Q: 18 of 30

A sum of money invested under simple interest doubles in 5 years then how much time will it take to become 4 times itself

- A) 12 years
- B) 15 years
- C) 16 years
- D) 13 years

Q: 19 of 30

A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$, What is the percentage error in the calculation ?

- (A) 54% (B) 64% (C) 74% (D) 84%

Q: 20 of 30

A man spends 35% of his income on food, 25% on children's education and 80% of the remaining on house rent. What percent of his income he is left with?

- (A) 6% (B) 8% (C) 10% (D) 12%

Q: 21 of 30

A's salary is 40% of B's salary which is 25% of C's salary. What percentage of C's salary is A's salary?

- (A) 10 (B) 20 (C) 30 (D) 40

Q: 22 of 30

A number is decreased by 10% and then increased by 10%. The number so obtained is 10 less than the original number. What was the original number?

- (A) 1000 (B) 2000 (C) 3000 (D) 4000

Q: 23 of 30

If the price of sugar is reduced by 20% due to which a person can buy 6 kg more sugar for Rs. 240. Find the original price of sugar per kg.

- (A) Rs.10/Kg (B) Rs.20/Kg (C) Rs.15/Kg (D) Rs.24/Kg

Q: 24 of 30

A student scored 25 % in an examination and still failed by 30 marks while another candidate scored 50% marks and got 20 marks more than the passing marks. Then find the minimum pass percentage.

- (A) 30 % (B) 40 % (C) 45 % (D) 50 %

Q: 25 of 30

Raju invest 65% of his investment in a machine and 20% of his investment on raw material. If he has Rs. 6000 balance. Find the total money he had.

- (A) 30000 (B) 40000 (C) 50000 (D) 60000

Q: 26 of 30

A dishonest dealer professes to sell goods at the cost price but uses a weight of 800 grams per kg, what is his percent?

- A. 20% B. 25% C. 30% D. 15%

Q: 27 of 30

A man sells two articles for Rs.3600 each and he gains 30% on the first and loses 30% on the next. Find his total gain or loss?

- A. 9% loss B. 10% loss C. 40% profit D. No profit No loss

Q: 28 of 30

Sam purchased 20 dozens of toys at the rate of Rs. 300 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit?

- A. 3% B. 26% C. 30%
D. 32%

Q: 29 of 30

The selling price of a shirt is Rs.1700 after giving two successive discounts of 20%, 15%. What is the marked price of the shirt?

- (a) Rs.3000
(b) Rs.2500
(c) Rs.2000
(d) Rs.4000

Q: 30 of 30

The marked price of a book is Rs.150. After allowing 20% discount, the loss incurred on the book is 4% .Find the cost price of the book.

- (a) Rs.125
- (b) Rs.110
- (c) Rs.140
- (d) Rs.135

UNIT 3 PRACTICE TEST QUESTIONS

Q: 01 of 30

In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?

- A) MFEDJJOE B) EOJDEJFM C) MFEJDJOE D) EOJDJEFM

Q: 02 of 30

In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code ?

A) SHFDQ B) HFDSQ C) RSAFD D) QDF

Q: 03 of 30

In a certain code language,

'134' means 'good and tasty';

'478' means 'see good pictures' and

'729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

A) 9 B) 2 C) 1 D) 8

Q: 04 of 30

If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH ?

A) 246173 B) 214673 C) 214763 D) 216473

Q: 05 of 30

If Z = 52 and ACT = 48, then BAT will be equal to

A) 39 B) 41 C) 44 D) 46

Q: 06 of 30

If Z = 2197 and R = 729. How would J be written in that code?

A) 216 B) 124 C) 512 D) 125

Q: 07 of 30

Which number would replace question mark in the series 7, 12, 19, ?, 39.

(a) 29 (b) 28 (c) 26 (d) 24

Q: 08 of 30

Which is the number that comes next in the sequence: 0, 6, 24, 60, 120, 210, ?,

(A) 240 (B) 290 (C) 336 (D) 504

Q: 09 of 30

Find out the missing number in the following sequence:

1, 3, 3, 6, 7, 9, ?, 12, 21.

(A) 10 (B) 11 (C) 12 (D) 13

Q: 10 of 30

2, 10, 60, 420, 3360, ?

A] 30240 B] 20160 C] 20250 D] 30340

Q: 11 of 30

260, 216, 128, 108, 62, 54, ?, 27

A] 39 B] 49 C] 29 D]

Q: 12 of 30

5, 6, 10, 19, ?, 60

A] 35 B] 24 C] 25 D] 45

Q: 13 of 30

19, 2, 38, 3, 114, 4, ?

A] 228 B] 256 C] 352 D] 456

Q: 14 of 30

Look at this series: 36, 34, 30, 28, 24, ... What number should come next?

A. 20 B. 22 C. 23 D. 26

Q: 15 of 30

In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code ?

- (A) SHFDQ (B) HFDSQ (C) RSAFD (D) QDFHS

Q: 16 of 30

In a certain code language,

'134' means 'good and tasty';

'478' means 'see good pictures' and

'729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

- A) 9 (B) 2 (C) 1 (D) 8

Q: 17 of 30

A, P, C, Q, E, R, G, ?

- [A] S [B] H [C] I [D] T

Q: 18 of 30

B, D, G, K, M, P, ?

- [A] Q [B] R [C] T [D] S

Q: 19 of 30

KPA, LQB, MRC, NSD, ?

- [A] OTE [B] PTE [C] NST [D]
DMO

Q: 20 of 30

B1A, D8E, F27I, -----, J125Q

A] H81M

B] H64M

C] H64L

D] H64K

Q: 21 of 30

LOAD is coded as 'MPBE' and DRIVE as ESJWF HOW YOU CODE LADDER?

[A] NCFFGT

[B] MBEEFS

[C] MDEEFS

[D] MBEESP

Q: 22 of 30

'START=WALKA' and BUDPI=XZFMQ what should be 'STUPID' = ?

A] WAZMQF

B] BAZMQF

C] WAZNOF

D] WAZMMF

Q: 23 of 30

If in a certain code, TWENTY is written as 863985 and ELEVEN is written as 323039, how is TWELVE written in that code?

(A) 203863

(B) 368302

(C) 863203

(D) 320368

Q: 24 of 30

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, what would be the color of human blood?

(A) Blue

(B) Yellow

(C) Black

(D) Violet

Q: 25 of 30

If the first and second letters in the word 'DEPRESSION' were interchanged, also the third and the fourth letters, the fifth and the sixth letters and so on, which of the following would be the fifth letter from the right?

[A] R

[B] E

[C] S

[D] P

Q: 26 of 30

Which of the following words will come third in the English dictionary?

[A] Magical

[B] Magnify

[C] Maternal

[D] Magnetic

Q: 27 of 30

If the letters in the word 'UNDERTAKING' are rearranged in the alphabetical order, which one will be in the Seventh element from right in order after the rearrangement?

[A] G

[B] I

[C] K

[D] N

Q: 28 of 30

Which letter in the word CYBERNETICS occupies the same position as it does in the English alphabet?

[A] C

[B] E

[C] S

[D] I

Q: 29 of 30

How many 4's are there preceded by 7 but not followed by 3?

5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1 3 8 3 2 5 6 7 4 3 9 5 8 2 0 1
8 7 4 6 3 7 4 2

[A] Four

[B] Three

[C] Six

[D] Five

Q: 30 of 30

How many even numbers are there in the following sequence of numbers which are immediately followed by an odd number as well as immediately preceded by an even number?

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

[A] 2

[B] 3

[C] 4

[D] 5

UNIT 4 PRACTICE TEST QUESTIONS

Q: 01 of 30

$A : B = 3 : 4$ and $B : C = 8 : 9$ and $C : D = 15 : 16$

$A : D = ?$

A. $5 : 8$

B. $8 : 9$

C. $8 : 5$

D. $9 : 8$

Q: 02 of 30

If $2A = 3B = 4C$ then $A : B : C = ?$

A. $3 : 4 : 6$

B. $6 : 4 : 3$

C. $4 : 3 : 6$

D. $4 : 6 : 3$

Q: 03 of 30

A bag contains 1 Rs, 50 paisa, 25 paisa and 10 paisa coins in $1:3:5:7$. If total amount is Rs 22.25. How many 50 paisa coins are there ?

A. 5

B. 15

C. 25

D. 35

Q: 04 of 30

A man divide his property in such a way that the share of son to his wife and wife to daughter both are 3:1. If daughter got Rs 10 lakh less than son, what was the total property?

- A.22.5 lakh
- B.16.25 lakh
- C.26.25 lakh
- D.40 lakh

Q: 05 of 30

The ratio of income of A and B is 5:4 and their expenditure is 3:2. At the end of month each save Rs 800. what is the annual income of A ?

- A.2000 Rs
- B.10000 Rs
- C.12000 Rs
- D.24000 Rs

Q: 06 of 30

60 L mixture consist Milk and water in 2:1. find the amount of water to be further added to make ratio reverse.

- A.120 L
- B.60 L
- C.30 L
- D. 20 L

Q: 07 of 30

An employer reduces the number of employee in 4:3 and increases the wages in 5:7. By how much % his total bill will increase or decrease?

- A.5% increase
- B.5% decrease
- C.20% increase
- D.20% decrease

Q: 08 of 30

The ratio of B & G is 10:3, when 36 girl more joined the ratio becomes 10:7. Find the no. of boys?

- A.90
- B.100
- C.60
- D.None **Q: 09 of 30**

The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

- A.8 : 9
- B.17 : 18
- C.21 : 22
- D.Cannot be determined

Q: 10 of 30

If Rs. 782 be divided into three parts, proportional to $1/2 : 2/3 : 3/4$, then the first part is:

- A.Rs. 182
- B.Rs. 190
- C.Rs. 196
- D.Rs. 204

Q: 11 of 30

If $x:y$ is $2:3$, find the value of $(3x + 2y) : (2x+5y)$

A. $12/25$

B. $11/27$

C. $12/19$

D. $11/23$

Q: 12 of 30

Three partners shared the profit in a business in the ratio $5 : 7 : 8$. They had partnered for 14 months, 8 months and 7 months respectively. What was the ratio of their investments?

A. $5 : 7 : 8$

B. $20 : 49 : 64$

C. $38 : 28 : 21$

D. None of these

Q: 13 of 30

A trader has 25 kg of rice. A part of which he sold at 4% profit and rest at 9% profit. His overall gain is 7%. What is the quantity he sold at 9% profit?

A. 9 kg

B. 10kg

C. 12 kg

D. 15 kg

Q: 14 of 30

A mixture consist Milk and water in 5:1. On adding 5 L water, the ratio becomes 5:2. Find quantity of milk in original mixture.

- A.5 L
- B.10 L
- C.15 L
- D. 25 L

Q: 15 of 30

Two bucket contains same amount of mixture of Milk and water in 9:5 and 4:3 resp. If these buckets are further mixed, find the ratio of milk and water in final mixture.

- A.11 : 17
- B.17 : 11
- C.9 : 8
- D.8 : 9

Q: 16 of 30

Two bucket contains same amount of mixture of Milk and water in 9:5 and 4:3 resp. If these buckets are further mixed in 1:2, find the ratio of milk and water in final mixture.

- A.17 : 25
- B.25 : 17
- C.9 : 16
- D. 8 : 18

Q: 17 of 30

A trader has 44 kg of rice, a part of which he sells at 14% profit and the rest at 8% loss. On the whole, his loss is 4%. What is the quantity sold at 8% loss?

- (a) 36 kg
- (b) 20 kg
- (c) 28 kg
- (d) 30 kg

Q: 18 of 30

A bucket contains two liquids A and B in 5:3. If 16 L of mixture is drawn off and replaced with same amount of liquid B, the ratio becomes 3:5. How much Litre bucket holds?

- A.40 L
- B.24 L
- C.26 L
- D.80 L

Q: 19 of 30

The ratio in which two sugar solutions of the concentrations 15% and 40% are to be mixed to get a solution of concentration 20% is:

- (a) 4: 1
- (b) 3: 2
- (c) 8: 9
- (d) 9: 8

Q: 20 of 30

8 L was taken out from a cask full of wine and replaced with water. This operation is performed 3 more times. The ratio of quantity of wine left in the cask to that of water is 16:65. how much wine did the cask hold initially?

A.12 L

B.18 L

C.24 L

D. 30 L

Q: 21 of 30

How much tea at Rs. 4 a kg should be added to 15 kg of tea at Rs. 10 a kg so that the mixture be worth Rs. 6.50 a kg ?

(a) 15 kg

(b) 35 kg

(c) 25 kg

(d) 21 kg

Q: 22 of 30

If $a:b = 7:5$, $b:c = 9:11$, then find $a:b:c$.

A. 63:14:55

B. 63:45:55

C. 14:14:15

D. 7:17:11

Q: 23 of 30

A, B, C started a business with their investments in the ratio 1:3 :5. After 4 months, A invested the same amount as before and B as well as C withdrew half of their investments. The ratio of their profits at the end of the year is :

(A) 1 : 2 : 3

(B) 3 : 4 : 15

(C) 3 : 5 : 10

(D) 5 : 6 :

Q: 24 of 30

Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was Simran's share in the profit ?

- (A) 10110 (B) 10500 (C) 12000 (D) 13000

Q: 25 of 30

A, B, C subscribe Rs. 50,000 for a business, A Subscribes Rs. 4000 more than B and B Rs. 5000 more than C. Out of a total profit of Rs. 35,000, A receives :

- (A) 14700 (B) 15000 (C) 12000 (D) 13500

Q: 26 of 30

In a business Ram invests Rs.60,000. After 6 months his uncle invests Rs.40,000. After one year they got a profit of Rs.12,000. Then uncle gets his share as

- A.Rs.2500
B.Rs.2000
C.Rs.1000
D.Rs.3000

Q: 27 of 30

8 litres are drawn from a cask full of wine and is then filled with water. This operation is performed three more times. The ratio of the quantity of wine now left in cask to that of the water is 16 : 65. How much wine the cask hold originally?

- (A) 18 litres (B) 24 litres (C) 32 litres (D) 42 litres

Q: 28 of 30

A mixture of 150 liters of wine and water contains 20% water. How much more water should be added so that water becomes 25% of the new mixture?

- (A) 10 liters (B) 20 liters (C) 30 liters (D) 40 liters

Q: 29 of 30

At present age of father is 5 times the age of the son. 3 years hence the father would be 4 times that of the son. What is present age of father?

A.40

B.45

C.50

D.35

Q: 30 of 30

Ten years ago Arun's mother was 4 times older than Arun. After 10 years the mother will be twice older than Arun. Find the present age of Arun?

A.20

B.25

C.30

D.22

UNIT 5 PRACTICE TEST QUESTIONS

Q: 01 of 30

From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done?

A., 564

B., 645

C., 735

D., 756

Q: 02 of 30

In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

A., 360

B., 480

C., 720

D., 5040

Q: 03 of 30

In a group of 6 boys and 4 girls, four children are to be selected. In how many different ways can they be selected such that at least one boy should be there?

A., 159

B., 194

C., 205

D., 209

Q: 04 of 30

A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?

A., 32

B., 48

C., 64

D., 96

Q: 05 of 30

How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?

A., 40

B., 400

C., 5040

D., 2520

Q: 06 of 30

Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

A.,

$\frac{1}{2}$

B.,

$\frac{2}{5}$

C.,

$\frac{8}{15}$

D.,

$\frac{9}{20}$

Q: 07 of 30

In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?		
<div><div>A</div><div>.</div></div>	1	
	3	

B	3	
	4	
C	7	
	19	
D	8	
	21	

Q: 08 of 30

What is the probability of getting a sum 9 from two throws of a dice?		
A	1	
	6	
B	1	
	8	
C	1	
	9	
D	1	
	12	

Q: 09 of 30

A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:		
A	1	
	13	
B	2	
	13	
C	1	
	26	
D	1	
	52	

Q: 10 of 30

Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is:		
A	3	
	20	
B	29	
	34	

<input type="radio"/>	47	
<input type="radio"/>	100	
<input type="radio"/>	13	
<input type="radio"/>	102	

Q: 11 of 30

How many 4 digit numbers are possible with the digits 1, 2, 3, 6, 7, 8 and 9 without repetition?

- A) 720
- B) 480
- C) 840
- D) 320

Q: 12 of 30

How many 4 digit numbers can be made from the digits 7, 8, 5, 0, and 4 without repetition?

- A) 70
- B) 96
- C) 84
- D) 48

Q: 13 of 30

Find the no of 3 digit numbers such that at least one of the digit is 6 (with repetitions) ?

- A. 252
- B. 345

C. 648

D. 560

Q: 14 of 30

How many 3 digit numbers greater than 400 can be made with the digits 2, 3, 4, 0, 5, 6 (digits cannot be repeated) ?

A. 119

B. 59

C. 120

D. 60

Q: 15 of 30

There are 6 periods in each working day of a school. In how many ways can one organize 5 subjects such that each subject is allowed at least one period?

A.3200

B.3600

C.2400

D.1800

Q: 16 of 30

There are 15 points in a plane out of which 6 are collinear. Find the number of lines that can be formed from 15 points.

- a) 105
- b) 90
- c) 91
- d) 95

Q: 17 of 30

How many triangles can be formed by joining the vertices of hexagon ?

- A.20
- B.12
- C.24
- D.10

Q: 18 of 30

There are 4 men and 3 women. In how many ways a group of three people can be formed such that there is at least 1 women in the group.

- A.40
- B.20
- C.34
- D.31

Q: 19 of 30

What is the rank of word JAIPUR if all the words formed by letters are arranged in ascending order?

A.241

B.122

C.123

D.242

Q: 20 of 30

In How many ways letters of word PREVIOUS be arranged such that all vowels always come together?

A.1440

B.2880

C.4320

D.840

Q: 21 of 30

A bag contains 5 red balls and 7 blue balls. Two balls are drawn at random without replacement, and then find the probability of that one is red and other is blue.

Options :

35/66

37/66

41/65

Q: 22 of 30

In a bag there are 4 white, 4 red and 2 green balls. Two balls are drawn at random. What is the probability that at least one ball is of red color?

Options :

1/3

2/3

2/7

3/7

Q: 23 of 30

A fair dice is rolled twice. The probability that an odd number will follow on even number is?

Options :

1/3

1/4

1/5

1/6

Q: 24 of 30

There are three boxes each containing 3 Pink and 5 Yellow balls and also there are 2 boxes each containing 4 Pink and 2 Yellow balls. A Yellow ball is selected at random. Find the probability that Yellow ball is from a box of the first group?

A. 42/61

B. 45/61

C. 51/61

D. $52/61$

Q: 25 of 30

A fruit basket contains 10 Guavas and 20 Bananas out of which 3 Guavas and 5 Bananas are defective. If two fruits selected at random, what is the probability that either both are Bananas or both are non-defective?

A. $315/435$

B. $313/435$

C. $317/435$

D. $316/435$

Q: 26 of 30

A basket contains 6 White 4 Black 2 Pink and 3 Green balls. If three balls picked up random, What is the probability that all three are White?

A. $4/91$

B. $5/93$

C. $7/97$

D. $8/92$

Q: 27 of 30

Two dice are tossed. The probability that the total score is a prime number is:

(a) $1 / 6$

(b) $5 / 12$

(c) $1 / 2$

(d) $7 / 9$

Q: 28 of 30

The probability that A can solve the problem is $\frac{2}{3}$ and B can solve the problem is $\frac{3}{4}$. If both of them attempt the problem, then what is the probability that the problem gets solved.

- (a) $\frac{1}{2}$
- (b) $\frac{17}{12}$
- (c) $\frac{1}{4}$
- (d) $\frac{11}{12}$

Q: 29 of 30

The probability of a student possessing a Hi-Tech point pen is $\frac{3}{5}$ and that of possessing a ball point pen is $\frac{2}{3}$. Find the probability that a student can have at least one type of pen.

- (a) $\frac{3}{5}$
- (b) $\frac{2}{5}$
- (c) $\frac{13}{15}$
- (d) $\frac{1}{15}$

Q: 30 of 30

If A speaks the truth 80 % of the times and B speaks the truth 60 % of the times. What is the probability that both speak the truth at the same time?

- (a) 0.8
- (b) 0.48
- (c) 0.6
- (d) 0.14

UNIT 6 PRACTICE TEST QUESTIONS

Q: 01 of 30

- K is the brother of J. J is the mother of Y.
- Y is the sister of T. T is married to Q. S is the father of J.
- S has only one daughter. S is married to R.
- K is the brother of D. U is the father-in-law of D.

Q. How is D related to Y?

- a) Cannot be determined
- b) Mother
- c) Uncle
- d) Father

Q: 02 of 30

- K is the brother of J. J is the mother of Y.
- Y is the sister of T. T is married to Q. S is the father of J.
- S has only one daughter. S is married to R.
- K is the brother of D. U is the father-in-law of D.

Q: If U is the father of C, then how is D related to C?

- a) Cousin
- b) Husband
- c) Wife
- d) Cannot be determined

Q: 03 of 30

- L is the only child of K,R.
- T is married to L.
- S is the sister of R.
- S is the only daughter of B.
- J, the father of B has only two children.
- Q is the daughter of J.

How is J related to S?

- a) Grandfather
- b) Brother-in-law
- c) Uncle
- d) Cousin

Q: 04 of 30

- L is the only child of K,R.
- T is married to L.
- S is the sister of R.
- S is the only daughter of B.
- J, the father of B has only two children.
- Q is the daughter of J.

How is Q related to R?

- a) Daughter-in-law
- b) Grandmother
- c) Niece
- d) Aunt

Q: 05 of 30

- K and M are the children of G.
- G is married to R.
- S is the sister of G.
- A is the only son of R.
- P is the son of K.

How is M related to P?

- a) Father
- b) Uncle

- c) Aunt
- d) Grandmother

: 06 of 30

- K and M are the children of G.
- G is married to R.
- S is the sister of G.
- A is the only son of R.
- P is the son of K.

How is S related to R?

- a) Sister-in-law
- b) Daughter-in-law
- c) Niece
- d) Daughter

Q: 07 of 30

If 'A x B' means B is the father of A and

'A + B' means A is the wife of B.

A / B means A is the brother of B ,

then what is the relation of J with L in the ' J + H / R x L '.

- a) Daughter
- b) Daughter in law
- c) Sister in law

d) Cannot determined

Q: 08 of 30

' $A \times B$ ' means 'A is mother of B'.

' $A - B$ ' means 'A is brother of B'.

' $A + B$ ' means 'A is sister of B'.

' $A \div B$ ' means 'A is father of B'.

If the expression $M \times N + R \div T$ is true, then which of the following is true?

- (a) M is father of R
- (b) N is aunt of T
- (c) M is grandfather of T
- (d) T is sister of N

Q: 09 of 30

Aryan has a brother named Bishnu. Aryan is the son of Chetan. Dev is Chetan's father. In term of relationship, what is Bishnu of Dev?

- (a) Grandson
- (b) Father
- (c) Brother
- (d) Cousin

Q: 10 of 30

Introducing a boy, a girl says, "He is the son of the sister of my mother's brother." How is the boy related to the girl?

- (a) Cousin
- (b) Brother-in-law
- (c) Father-in-law
- (d) Niece

Q: 11 of 30

Introducing a man, a girl said, "He is the son of the sister of my mother's Father". How is that man related to that girl?

- (a) Cousin
- (b) Uncle
- (c) Father-in-law
- (d) Niece

Q: 12 of 30

Nisha's father's brother-in-law is the brother of Neha. How is Nisha related to Neha?

- (a) Sister
- (b) Niece
- (c) Mother
- (d) Mother in law

Q: 13 of 30

X is the husband of Y. W is the daughter of X. Z is the husband of W. N is the daughter of Z. What is the relationship of N to Y.

- (a) Cousin
- (b) Niece
- (c) Daughter
- (d) Grand daughter

Q: 14 of 30

Pointing to a lady in the photograph, Monika said, "Her son's father is the son-in-law of my mother." How is Monika related to the lady?

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

Q: 15 of 30

Shikha told Aarushi, "The girl I met, yesterday at the beach was youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Shikha's friend?

- (a) Cousin
- (b) Daughter
- (c) Niece
- (d) Friend

Q: 16 of 30

In a family of five members, there are two married couples in the family. A is father in law of X, who is married with W. Z is the son of W. D has only one daughter.

How is A related with Z?

- (a) Grand Father
- (b) Grand Mother
- (c) Father in law
- (d) daughter in law

Q: 17 of 30

In a family of five members, there are two married couples in the family. A is father in law of X, who is married with W. Z is the son of W. D has only one daughter.

Who is the son in law of Z's grandmother?

- (a) A
- (b) D
- (c) W
- (d) X

Q: 18 of 30

In a family there are eight members. A is mother of B, who is brother of C. C and Q are siblings. Y is daughter of P. Z is brother in law of B, who is son of D. A has only one son. There are only two married couples in the family. P is married to B.

How is P related with Z?

- (a) Brother
- (b) Daughter
- (c) Nephew
- (d) None of these

Q: 19 of 30

In a family there are eight members. A is mother of B, who is brother of C. C and Q are siblings. Y is daughter of P. Z is brother in law of B, who is son of D. A has only one son. There are only two married couples in the family. P is married to B.

How is C related with Y?

- (a) Aunt
- (b) Daughter in law
- (c) Uncle
- (d) Granddaughter

Q: 20 of 30

'P@Q' means 'Q is the mother of P'

'P\$Q' means 'Q is the husband of P'

'P#Q' means 'Q is the sister of P'

'P*Q' means 'Q is the son of P'.

If 'A # B \$ C * D * E' then how is E related with B?

- (a) son
- (b) daughter
- (c) Grand daughter
- (d) Grand son

Q: 21 of 30

There are seven members in a family. J is the mother of K and mother in law of E. C is the daughter in law of N. E is the son of C who is married with F. G is spouse of E. There are only two married couple in the family.

How is G related with J?

- (a) Daughter
- (b) Son in law
- (c) daughter in law
- (d) Wife

Q: 22 of 30

A is the son of C

C and Q are sisters

Z is the mother of Q

P is the son of Z.

Which of the following statements is true?

- A. P and A are cousins
- B. P is the maternal uncle of A
- C. Q is the maternal grandfather of A
- D. C and P are sisters

Q: 23 of 30

If

A \$ B means A is the brother of B

A @ B means A is the wife of B

A # B means A is the daughter of B

A * B means A is the father of B,

Which of the following indicates that U is the father-in-law of P?

A. P @ Q \$ T # U * W

B. P @ W \$ Q * T # U

C. P @ Q \$ W * T # U

D. P @ Q \$ T # W * U

Q: 24 of 30

If South-East becomes North, North-East becomes West and so on. What will West become?

A) North-East

B) North-West

C) South-East

D)

South-West

Q: 25 of 30

One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?

A) East

B) West

C) South

D)

Data is inadequate

Q: 26 of 30

A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 4 km. And then he goes back 10 km straight. Now in which direction is he from the starting place ?

A) South-East

B) North-West

C) South

D) West

Q: 27 of 30

Rasik walked 20 m towards north. Then he turned right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Finally he turns left and walks 15 m. In which direction and how many metres is he from the starting position?

A) 15 m West
D) 45 m East

B) 30 m East

C) 30 m West

Q: 28 of 30

K is 40 m South-West of L. If M is 40 m South-East of L, then M is in which direction of K?

A) East
D) South

B) West

C) North-East

Q: 29 of 30

One morning after sunrise Nivedita and Niharika were talking to each other face to face. If Niharika's shadow was exactly to the right of Nivedita, Which direction Niharika was facing?

A) North
Data is inadequate

B) South

C) East

D)

Q: 30 of 30

If $A * B$ means A is to the south of B, $A + B$ means A is to the north of B, $A \% B$ means A is to the east of B, $A - B$ means A is to the west of B, then in $P \% Q + R - S$, S is in which direction with respect to Q?

A) South-West
D) North-West

B) South-East

C) North-East