

## Coding and Artificial language (Aptitude test)

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1) In a certain code '1 7 2 9' means 'in a programming language', '7 9 3' means 'as a set' and '2 3 4 5 6 7' means 'in the set as an element'. What is the code for 'a'?

A) 1

B) 7

C) 9

D) 3

2) In a certain code '4 0 7' means 'the negative roots', '6 0 9' means 'number of roots' and '769' means 'the number of'. What is the code for 'number'?

A) 9

B) either 0 or 9

C) either 6 or 9

D) either 6 or 7

3) Here are some words translated from an artificial language:

'porgtegryl' means 'negative number'

'hwytsporgte' means 'number theory'

'higldrlqwsf' means 'algebraic geometry'

Which word could mean 'algebraic number'?

A) higldrhwyts

B) rlqwsfporgte

C) hwytsrlqwsf

D) porgterlqwsf

**4)** Here are some words translated from an artificial language:

‘haposllrfg’ means ‘ring theory’

‘rccpotlyert’ means ‘abelian group’

‘lyertrpsleotr’ means ‘group homomorphism’

Now, translate the English word ‘ring homomorphism’ into the artificial language.

A) sllrfglyertr

B) hapopsleotr

C) lyertrsllrfg

D) psleotrhapo

**5)** Here are some words translated from an artificial language:

‘portweagno’ means ‘Mathematical traditions’

‘screncrue’ means ‘Great Mathematicians’

‘goddr agno’ means ‘Mathematical formulas’

Which word could mean ‘International Congress of Mathematicians’?

A) screncruetylkkhyp

B) screntbhjfskjhagno

C) screnhjtyrgtlkjbblj

D) goddrtbhjfslkjhagno

6) Here are some words translated from an artificial language:

‘mjhnh mdrtn’ means ‘eigen vector’

‘linjh nrfgd’ means ‘linear algebra’

‘mjhnh prswe’ means ‘eigen value’

Which word could mean ‘linear combination’?

A) linjhprswe

B) linjhmjnhh

C) nrfgdlinjh

D) linjhpstrte

7) Mathematics : pcwjhodvlev :: Algebra : ?

A) dnjgetd

B) cnjgetd

C) dnjhetd

D) cnjhetc

**In the English alphabet, letters from A to M denote numeric values from 1 to 13 (such that A is 1, B is 2, ...) and letters from N to Z denote numeric values from -13 to -1 (such that N is -13, O is -12, ...). [Asked in “FMS”]**

8) The numeric value of which of the following equations will be a whole number?

A) KISS / RAPP

B) HIS / HELL

C) HISS / YOUR

D) None of the above

9) Assuming that the salaries are basically coded with the help of employee names using the code given above, who among the following will be drawing the highest salary?

A) PREM

B) SHAN

C) RAMU

D) None of the above

10) Following the above mentioned code, which of the following will be true?

A)  $GS - TSZ = 0$

B)  $PRO = DLW$

C)  $ROD = YET$

D) None of the above

**Answers:**

1) C 2) C 3) D 4) B 5) C 6) D A 8) D 9) A 10) A

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