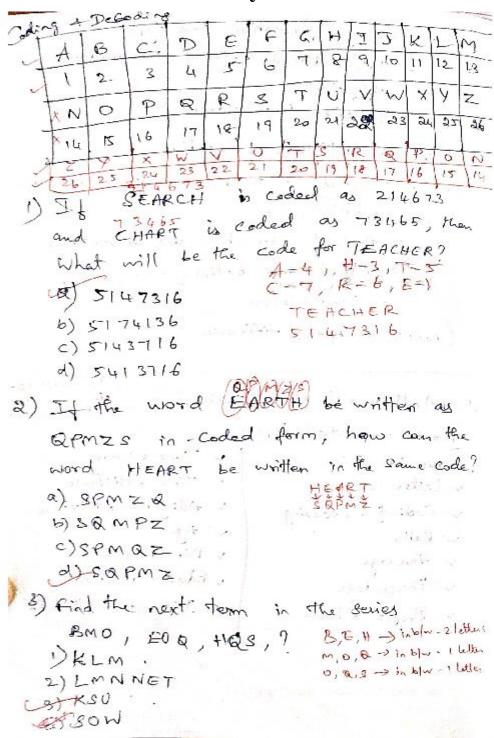# SNS COLLEGE OF TECHNOLOGY
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DEPARTMENT OF MATHEMATICS

23GET275 VQAR-I UNIT-1

Coding + Decoding

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

1) If SEARCH is coded as 214673 and CHART is coded as 73465, then what will be the code for TEACHER?

A = 4, H = 3, T = 5
C = 7, R = 6, E = 1

TEACHER
5 1 4 7 3 1 6

a) 5147316
b) 5174136
c) 5143716
d) 5413716

2) If the word EARTH be written as QPMZS in coded form, how can the word HEART be written in the same code?

HEART
↓ ↓ ↓ ↓ ↓
S Q P M Z

a) SPMZQ
b) SQMPZ
c) SPMQZ
d) SQPMZ

3) Find the next term in the series
BMO, EOQ, HQS, ?

B, E, H → in b/w - 2 letters
M, O, Q → in b/w - 1 letter
O, Q, S → in b/w - 1 letter

1) KLM
2) LMNNET
3) KSU
4) SOW

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4) In a certain coding language, 'GIVE' is written as VIEG and OVER is written as EVRO. How will DISK be written in the same code?

a) SIDKG

b) KDSI

c) SIKD

d) KISD

DISK $\Rightarrow$ SIKD
1 2 3 4   3 2 4 1

GIVE   OVER
1 2 3 4   1 2 3 4

VIEG   EVRO
3 2 4 1   3 2 4 1

5) If in a coded language,
154 means "Good and Tasty"
468 means "See Good Pictures" and
629 means "Pictures are Faint",
then which of the following digit stands for "See"?

a) 9   b) 8   c) 4   d) 6

See   Good   Pictures
↓   ↓   ↓
8   4   6

6) In a certain language:
A: "It is dark outside" is coded as:
"la sa ka tu"
B: "It is still raining" is coded as:
"sa la si ra"
C: "Raining heavily outside" is coded as:
"ra ha tu"
How "dark" and "heavily", respectively, are coded in that language?

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a) tu & si   ⓑ la & ha

ⓒ Sa ti ra   ⓓ ka & ha

7) In a certain code, O is written as E, A as C, M as I, S as O, N as P, E as M, I as A, P as N and C as S, then how will COMPANION be written in that code?

SEINCPAEP

(a) S E I N C P A E P   (b) S E N C I A P E P

(c) S E N C P I A P E   (d) S N E I P C A P E

8) Unscramble the strings below to create a meaningful word and then find the odd one out:

WINTER
(a) E I W N T R

SUMMER
(b) U M R S M E

spring
(c) P I G R S N

Cloudi
(d) L C U O D

9) If the Letters of the word DELHI are coded as CCIDD, then in the same coding scheme, how the word BOMBAY shall be coded?

CCIDD
DELHI

D-1=C, E-2=C; L-3=I
D-4=D, I-5=D

(a) A X M J V S   (b) A M J X V S

(c) A M I X Y S   (d) A M X J S V

BOMBAY
AMJXVS

B-1=A, O-2=M, M-3=J
B+4=X, A-5=V, Y-6=S

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10) Find the next term (?) in the following letter series:

AM, GJ, MG, SD, ?, ...

ⓐ XZ ⓑ YC ⓒ XA ⓓ YA

A^{+6}, G^{+6}, M^{+6}, S^{+6} → diff 6 (forward)

M^{-3}, J^{-3}, G^{-3}, D^{-3} → diff 3 (backward)

11) In a certain coding scheme:

"Family values are important" is written as
"pa, ya, si, sa"

"Values are generally contagious" is written as
"ya, da, ja, sa"

"Some diseases are contagious" is written as
"ka, da, sa, ro"

What are the codes for "Contagious" and "Values"?

ⓐ da, sa ⓑ da, si ⓒ ka, ya ⓓ da, ya

12) In a certain code DELHI is coded as 19 and CHENNAI is coded as 27. How will GUWAHATI be coded in the above code?

ⓐ 30 ⓑ 45 ⓒ 75 ⓓ 25

DELHI ⇒ 4+5+12+8+9 = 38/2 = 19

CHENNAI ⇒ 3+8+5+14+14+1+9 = 54/2 = 27

GUWAHATI ⇒ 7+21+23+1+8+1+20+9 = 90/2 = 45

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13) find the missing term in the following letter series

AMZ, BLY, CNX, DKW, EOV, ...?

ⓐ FPU   ⓑ FJU   ⓒ FQX   ⓓ FRU

A, B, C, D, E, ⟹ F

M, L, N, K, O ⟹ J

Z, Y, X, W, V ⟹ U

14) Determine the next term in the following letter-cum-number series:

A2Y, B3X, C5W, D7V, ──?

ⓐ E8U   ⓑ E11K   ⓒ E11U   ⓓ E6U

2, 3, 5, 7 ⟹ Primes ⟹ 11

A, B, C, D ⟹ E

Y, X, W, V ⟹ U

15) "He is a world Champion" is written as "ya, sa, za, ma, ka".

"World is a family" is written as "ma, sa, ba, za".

"Being champion is difficult" is written as "fa, sa, da, tea".

What are the codes for "Champion and is"

ⓐ ja, sa   ⓑ ma, sa   ⓒ ka, sa   ⓓ ma, ka

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16) In a certain coding language:

a) "tee See pee" means "drink fruit juice"
"Drink fruit juice"

b) "See kee lee" means
"Juice is sweet"

c) "lee ree mee" means
"he is intelligent"

Which word in this language mean "sweet"?

(A) pee   (B) kee   (C) lee   (D) mee

17) In a certain coding language:

a) AMAN is coded as 29
b) RAMAN is coded as 47

How SHAM will be coded in that language?

(A) 43   (B) 28   (C) 41   (D) 37

AMAN = 1 + 13 + 1 + 14 = 29
RAMAN = 18 + 1 + 13 + 1 + 14 = 47
SHAM = 19 + 8 + 1 + 13 = 41

18) In a Coding Scheme, the word "SCHOOL" is coded as 72. How will the word COLLEGE be coded in this scheme?

(a) 96   (b) 64   (c) 59   (d) 52

SCHOOL = 19 + 3 + 8 + 15 + 15 + 12 = 72
COLLEGE = 3 + 15 + 12 + 12 + 5 + 7 + 5 = 59

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19) If in a scheme, the word FATHER is coded as 104, how the word MOTHER will be coded in the same scheme?

@ 104   ⓑ 83   ⓒ 87   ⓓ 102

FATHER = 6 + 1 + 20 + 8 + 5 + 18 = 58
Reverse = 21 + 26 + 7 + 19 + 22 + 9 = 104
MOTHER = 13 + 15 + 20 + 8 + 5 + 18 = 79
Reverse = 14 + 12 + 7 + 19 + 22 + 9 = 83

20) Identify the correct sequence of letters which will complete the following letter series.

a a b c d _ _ _ b c d b c _ _ _ d c d a b _ _ _

a) a b a a b c c d d
ⓑ a b c a b a c d d
ⓒ a b a a b d c d d
ⓓ a b c a d b b c d

@ (a a b c d a) c a b c d c a b c d c d a b c d d)
b) (a a b c d a) b c bc d c a b a d c d a b c d d)
c) (a a b c d a) b a b c d c a b d d c d a b c d d)
d) (a a b c d a) b c b c d c a d b d c d a b b c d)

21) Find the correct sequence of five (5) missing letters which will complete the following letter series:

d a a _ b c _ c d a _ a _ c _ c

a) a, b, c, c, b   ⓑ a, c, b, a, c
ⓒ a, c, a, b, c   ⓓ a, c, a, c, b.

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a) daa a b c b c d a c a c c b c

b) daa a b c c c d a b a a c c c

c) (daa a b c c x da a a b c c c)

d) daa a b c c c d a a a c c b c

22) which given of the following sets of letters when sequentially placed at the gaps in the letter series below shall complete it? bb_b_ab_cbba_bcbb_

  a) a c b a c   ⓑ a c b b b
  ⓒ c b b b a   ⓓ a b b b c

a) b b a b c a b b c b b a a bc bb c

b) bb a b c a b b c b b a b bc bb b

c) bb c b b a b b c b b a b bc bb a

d) bb a b b ab b c b b a b bc bb c

  bba   bbc   bba   bbc

23) The position of how many letters in the word INDIAN remains unchanged when they are arranged in alphabetical order: ⟶ ADIINN

  a) one   ⓑ two   ⓒ three   ⓓ More than three

  (If changed ⟹ Ans: d(more than three))

24) Fill in the blank with the appropriate number
DIBRUGARH 3856 4 1267 BARK 5269
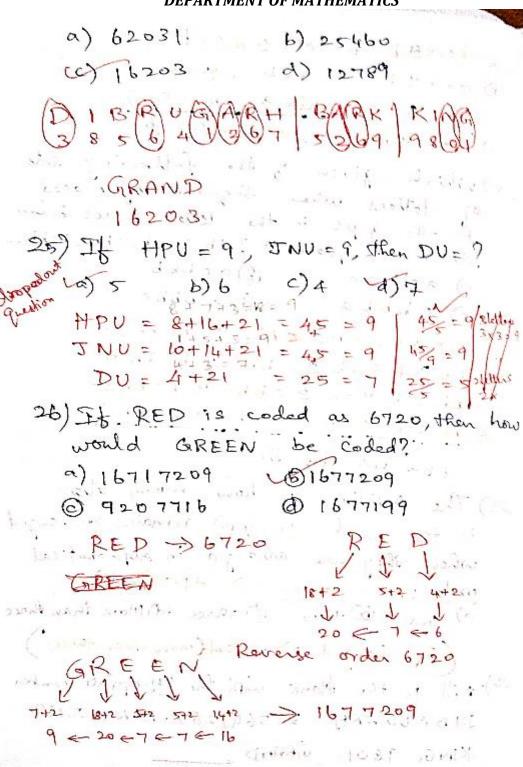KING 9801 GRAND _____

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a) 62031.   b) 25460

c) 16203   d) 12789

D I B R U G A R H . B A A K | K I N G
3 8 5 6 4 1 2 6 7 | 5 2 6 9 | 9 8 6 4

GRAND
1620.3

25) If HPU = 9, JNU = 9, then DU = ?

dropout question

a) 5   b) 6   c) 4   d) 7

HPU = 8+16+21 = 45 = 9 $\frac{45}{5}$ = 9/8 letters 3×3 = 9

JNU = 10+14+21 = 45 = 9 $\frac{45}{9}$ = 9

DU = 4+21   = 25 = 7 $\frac{25}{5}$ = 5 2 letters 2×

26) If RED is coded as 6720, then how would GREEN be coded?

a) 16717209   b) 1677209

c) 9207716   d) 1677199

RED → 6720   R E D
                    ↓   ↓   ↓
GREEN   18+2 5+2 4+2
                    ↓   ↓   ↓
                   20 ← 7 ← 6
                   Reverse order 6720

G R E E N
↓ ↓ ↓ ↓ ↓   → 16 7 7 209
7+2 18+2 5+2 5+2 14+2
9 ← 20 ← 7 ← 7 ← 16

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27) If DRIVER – 12 , GOVERNMENT – 20, BELIEVED = 16, then BAT = ?

(a) 6   (b) 8   (c) 10   (d) 12

DRIVER = 6 letters → (4 + 18 + 9 + 22 + 5 + 18 = 76 = 13) ⟹ 6 × 2 = 12
Reverse → 23 + 9 + 18 + 5 + 22 + 9 = 86 = 14
GOVERNMENT = 10 letters = 10 × 2 = 20
BELIEVED = 8 letters = 8 × 2 = 16
BAT = 3 letters = 3 × 2 = 6

I → Alphabetical order
II → Reverse Alphabetical order
III → Counting letters

28) If + means –, – means ×, × means ÷ and ÷ means +, then which of the following equations is *not* <u>correct</u>?

a) $10 \times 5 - 2 \div 4 + 6 = 2$ BODMAS
   $10 \div 5 \times 2 + 4 - 6 = 2$

b) $12 \times 4 + 5 \div 9 - 2 = 14$
   $12 \div 4 - 5 + 9 \times 2 = 16$
   $3 - 5 + 18 = 16$

c) $7 - 15 \times 3 + 6 \div 4 = 33$
   $7 \times 15 \div 3 - 6 + 4 = 33$
   $7 \times 3 - 6 + 4$

d) $14 \div 7 - 5 + 10 \times 2 = 45$
   $14 + 7 \times 5 - 10 \div 2 = $