



Date : 4th Dec 2023

Logical Reasoning - Coding Decoding

English

**Direction 1 - 4 :** Study the following information carefully and answer the following questions:

In a certain code language

'Window Ticket Open Refer' is written as '46@L 40@V 29#V 36@V'

'Pronoun Hack Amount Easy' is written as '30@F 19@X 21#M 30#H'

'Vacant Icon Status Cancel' is written as '42@M 23#L 38@F 15#V'

**Q:1** What is the code for Scientific?

1. 22#V
2. 19@F
3. 22@R
4. 25#D
5. None of these

**Q:2** The code '16@L' is coded for which of the following words?

1. Pressure
2. Balloon
3. Sensation
4. Entrance
5. Number

**Q:3** What is the code for 'Embedded Devices'?

1. 4#Y 6#H
2. 9#V 23@V
3. 4#Y 4#H
4. 9@V 20@H
5. None of these

**Q:4** What is the code for 'Argument'?

1. 21#M
2. 16#M
3. 15@N
4. 21@V
5. None of these

**Direction 5 - 8 :** Read the given information carefully and answer the following questions.

'Sky is dark blue' is written as 'kvp slm stu htv'

'Rainy sky is light' is written as 'stu mno htv pkr'

'Rainy season monsoon' is written as 'ptr pkr cdr'

'Monsoon sky is season' is written as 'htv ptr stu cdr'

**Q:5** What is the code for 'Season'?

1. cdr

2. pkr
3. ptr
4. kvp
5. Cannot be determined

**Q:6** What is the possible code for 'Sky is light blue'?

1. slm kvp stu pkr
2. htv stu mno slm
3. htv stu cdr ptr
4. pkr ptr cdr stu
5. None of these

**Q:7** What is the code of 'Monsoon season' in this language?

1. cdr kvp
2. cdr pkr
3. cdr ptr
4. pkr ptr
5. None of these

**Q:8** What is the code of 'Monsoon'?

1. slm
2. ptr
3. pkr
4. cdr
5. Either 2 or 4

**Directions 9 - 10 :** Read the information carefully and answer the given question.

Six students have different heights. They are divided into two groups A and B. There is a specific code given to each student, which is coded by the following steps which are as follows:

Height of student	step 1	step 2	code of student
163cm	326	12	3
155cm	155	12	3
147cm	147	13	4
152cm	456	16	7
175cm	175	14	5
167cm	334	11	2

After the codes are generated, each student is divided into groups, the one who has an even number code is kept in group A and the one who has an odd number code is kept in group B. Do the same procedure for the following other 6 students: 221, 247, 137, 135, 122, 232



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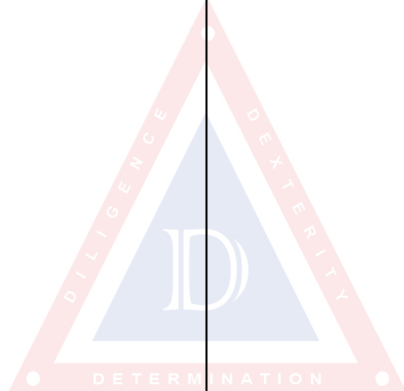
English

Q:9 What is the code for 232 cm height student?

1. 3
2. 4
3. 8
4. 5
5. 7

Q:10 What is the code for 122 cm height student?

1. 1
2. 9
3. 7
4. 5
5. 4





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### Answer Key

1. (3)	2. (2)	3. (2)	4. (1)	5. (5)
6. (2)	7. (3)	8. (5)	9. (2)	10. (3)

### Answers and Solutions

**Q:1** The correct answer is **Option 3** i.e. **22@R**

Logic:

Number- the sum of the place value of the first and last letter of the word

Symbol- If the word starts with a vowel then the symbol is #, otherwise @

Alphabet- Reverse letter of the second last letter of the word.

**Word: Scientific**

Number- place value of S is 19 and C is 3, sum =  $19+3=22$

Symbol- The word starts with a consonant, so use @

Alphabet- the second last letter of the word is I and the reverse letter of I is R.

Hence, the correct answer is **22@R**.

**Q:2** The correct answer is **Option 2** i.e. **Balloon**

Logic:

Number- the sum of the place value of the first and last letter of the word

Symbol- If the word starts with a vowel then the symbol is #, otherwise @

Alphabet- Reverse letter of the second last letter of the word.

**Code- 16@L**

From the given options-

Number- place value of B is 2 and N is 14, sum =  $2+14=16$

Symbol- The word starts with a consonant, so use @

Alphabet- The second last letter of the word is O and the reverse letter of O is L.

Hence, the correct answer is **Balloon**.

**Q:3** The correct answer is **Option 2** i.e. **9#V 23@V**

Logic:

Number- the sum of the place value of the first and last letter of the word

Symbol- If the word starts with a vowel then the symbol is #, otherwise @

Alphabet- Reverse letter of the second last letter of the word.

### Word- Embedded

Number- place value of E is 5 and D is 4, sum =  $5+4=9$

Symbol- The word starts with a vowel, so use #

Alphabet- The second last letter of the word is E and the reverse letter of E is V.

### Word- Devices

Number- place value of D is 4 and S is 19, sum =  $4+19=23$

Symbol- The word starts with a consonant, so use @

Alphabet- The second last letter of the word is E and the reverse letter of E is V.

Hence, the correct answer is **9#V 23@V**.

**Q:4** The correct answer is **Option 1** i.e. **21#M**

Logic:

Number- the sum of the place value of the first and last letter of the word

Symbol- If the word starts with a vowel then the symbol is #, otherwise @

Alphabet- Reverse letter of the second last letter of the word.

### Word- Argument

Number- place value of A is 1 and T is 20, sum =  $20+1=21$

Symbol- The word starts with a vowel, so use #

Alphabet- The second last letter of the word is N and the reverse letter of N is M.

Hence, the correct answer is **21#M**.

**Q:5** The correct answer is **Option 5** i.e. **Cannot be determined**

By decoding the codes for each element we get:

Sky is dark blue → kpv slm stu htv  
Rainy sky is light → stu mno htv pkr  
Rainy season monsoon → ptr pkr cdr  
Monsoon sky is season → htv ptr stu cdr

Code	Decode
htv/stu	sky/is
kpv/slm	dark/blue
pkv	rainy
mno	light
cdr/ptr	season/monsoon

The code for 'season' is either 'cdr' or 'ptr'.

Hence, the correct answer is **Cannot be determined**.



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**Q:6** The correct answer is **Option 2** i.e. **htv stu mno slm**

By decoding the codes for each element we get:

Sky is dark blue → kvp slm stu htv

(Rainy) sky is (light) → stu (mno) htv (pkr)

(Rainy) season monsoon → ptr (pkr) cdr

Monsoon sky is season → htv ptr stu cdr

Code	Decode
htv/stu	sky/is
kvp/slm	dark/blue
pkr	rainy
mno	light
cdr/ptr	season/monsoon

Hence, the correct answer is **htv stu mno slm**.

**Q:7** The correct answer is **Option 3** i.e. **cdr ptr**

By decoding the codes for each element we get:

Sky is dark blue → kvp slm stu htv

(Rainy) sky is (light) → stu (mno) htv (pkr)

(Rainy) season monsoon → ptr (pkr) cdr

Monsoon sky is season → htv ptr stu cdr

Code	Decode
htv/stu	sky/is
kvp/slm	dark/blue
pkr	rainy
mno	light
cdr/ptr	season/monsoon

Hence, the correct answer is **cdr ptr**.

**Q:8** The correct answer is **Option 5** i.e. **Either 2 or 4**

By decoding the codes for each element we get:

Sky is dark blue → kvp slm stu htv

(Rainy) sky is (light) → stu (mno) htv (pkr)

(Rainy) season monsoon → ptr (pkr) cdr

Monsoon sky is season → htv ptr stu cdr

Code	Decode
htv/stu	sky/is
kvp/slm	dark/blue
pkr	rainy
mno	light
cdr/ptr	season/monsoon

The code for monsoon is either 'cdr' or 'ptr'.

Hence, the correct answer is **Either 2 or 4**.

**Q:9** The correct answer is **Option 2** i.e. **4**

**Logic-**

**Step 1-** if the height of the student is a prime number then multiplied by 2 and if the height of the student is odd then it is multiplied by 1 if the height of the student is even then multiplied by 3.

**Step 2-** Sum of all digits of the number obtained in step 1 then add 1.

Code- Sum of digits in step 2.

Height of student	step 1	step 2	code of student
221cm	221	06	6
247cm	247	14	5
137cm	274	14	5
135cm	135	10	1
122cm	366	16	7
232cm	696	22	4

Now divide students into groups,

	Group A		
Height of student	step 1	step 2	code of student
221cm	221	06	6
232cm	696	22	4

	Group B		
Height of student	step 1	step 2	code of student
247cm	247	14	5
137cm	274	14	5
135cm	135	10	1
122cm	366	16	7

Clearly, as shown in the table, the code for a 232 cm height student is 4.

Hence, **4** is the correct answer.

**Q:10** The correct answer is **Option 3** i.e. **7**

**Logic-**

**Step 1-** if the height of the student is a prime number then multiplied by 2 and if the height of the student is odd then it is multiplied by 1 if the height of the student is even then multiplied by 3.

**Step 2-** Sum of all digits of the number obtained in step 1 then add 1.

Code- Sum of digits in step 2.

Height of student	step 1	step 2	code of student
221cm	221	06	6
247cm	247	14	5
137cm	274	14	5
135cm	135	10	1





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122cm	366	16	7
232cm	696	22	4

Now divide students into groups,

	Group A		
Height of student	step1	Step2	code of student
221cm	221	06	6
232cm	696	22	4

	Group B		
Height of student	step 1	step2	code of student
247cm	247	14	5
137cm	274	14	5
135cm	135	10	1
122cm	366	16	7

Clearly, as shown in the table, the code for a 122 cm height student is 07.

Hence, **07** is the correct answer.

