

Name: \_\_\_\_\_

Roll No. \_\_\_\_\_

**SIDDEEQ PUBLIC SCHOOL**

**ENTRY TEST ... 46    MATHEMATICS    Max. Marks: 20    ADMISSION TO CLASS: 7**

Checked by	Srv #	Sign:	Rechecked by	Srv #	Sign:	Marks:
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**1. Complete the following mathematical statements.** (1.0 × 4)

**i.** If product of two numbers is 63 and their HCF is 1, their LCM is \_\_\_\_\_.

**ii.** Ratio between  $\frac{1}{4}$  kg and 500 gm (in most simplified form) is \_\_\_\_\_.

**iii.** If 200% of a number is 4 then the number is \_\_\_\_\_.

**iv.**  $-3(4 + 5)$  \_\_\_\_\_  $(-3 \times 4) + (-3 \times 5)$  (Insert : >, < or =)

2. (i)  $(2x^2 + 4xy - 6y^2) - 3(x^2 + xy - 2y^2)$

(b) Find fourth proportional to  $\frac{1}{3}$ ,  $\frac{1}{9}$  and 27 .

**3. Simplify:**  $[\{0.6 - (1.2 \div 6)\} \times (15 - 3.2 - 1.8)] \div 2$  (4.0)

**4. The length of a rectangle is 2 cm more than thrice of its width and its perimeter is 236 cm. Find its length and width.**

*(Note: Write the equation for given situation and find its solution)* ( 4.0)

**5. A tub of ice cream contains four flavours. 20% vanilla , 30% chocolate and 15% mango and remaining strawberry. If the mass of strawberry ice cream is 420g. Find the total mass of other flavours.** (4.0)

(Use back of sheet for Q5)

## MATHEMATICS- 7

### ANSWER KEY

1. (i) 63 (ii) 1: 2 (iii) 2 (iv) =

2. (i)  $2x^2 + 4xy - 6y^2 - 3x^2 - 3xy + 6y^2 = 2x^2 - 3x^2 + 4xy - 3xy + 6y^2 - 6y^2 = -x^2 + xy$

(ii) Let  $x$  be the fourth proportional.

$$\frac{1}{3} : \frac{1}{9} :: 27 : x$$

As Product of extremes = Product of means

$$\frac{1}{3} \times x = \frac{1}{9} \times 27$$

$$x = 3 \times 3 = 9$$

So fourth proportional is 9 .

3.  $[(0.6 - 0.2) \times (11.8 - 1.8)] \div 2 = [0.4 \times 10] \div 2 = 4 \div 2 = 2$

4. Let width of rectangle =  $y$  , Length of rectangle =  $3y + 2$

As perimeter of rectangle =  $2(\text{length} + \text{width})$

So, According to given condition,  $236 = 2(3y + 2 + y)$

$$236 = 2(4y + 2)$$

$$236 = 8y + 4$$

$$8y = 236 - 4$$

$$8y = 232$$

$$y = \frac{232}{8} = 29$$

So width = 29 cm & length =  $3 \times 29 + 2 = 87 + 2 = 89\text{cm}$

5. Percentage of three flavours of ice cream =  $20\% + 30\% + 15\% = 65\%$

Percentage of strawberry ice cream =  $100\% - 65\% = 35\%$

**Method # 1:** Let  $x$  be the total mass of other flavours .

Percentage	mass
35	420
65	$x$

$$35 : 65 :: 420 : x$$

As product of extremes = product of means

$$35x = 65 \times 420$$

$$x = \frac{65 \times 420}{35} = 780$$

So mass of other flavours is 780g.

**Method # 1:** Let  $x$  be the total mass of ice cream tub

Percentage	mass
35	420
100	$x$

$$35 : 100 :: 420 : x$$

As product of extremes = product of means

$$35x = 100 \times 420$$

$$x = \frac{100 \times 420}{35} = 1200 \text{ g}$$

So mass of other flavours =  $1200\text{g} - 420\text{g} = 780\text{g}$

**SIDDEEQ PUBLIC SCHOOL**

**ENTRY TEST: 46**

**ENGLISH**

**MAX. MARKS: 20**

**ADMISSION TO CLASS: 7**

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**Vocabulary**

**Q.1 (A) Encircle the correct spelling. (0.5x2)**

- numarical / numericle / neumerical / numerical
- resistance / resistence / risistence / rezistance

**(B) Provide meanings either in English or in Urdu. (0.5x4)**

- suggest \_\_\_\_\_
- teasing \_\_\_\_\_
- raise \_\_\_\_\_
- necessary \_\_\_\_\_

**(C) Complete the columns. (0.5x6)**

Words	Opposites
latest	
	doubtful

Nouns	Verbs	Adjectives
	divide	
approval		

**Grammar**

**Q.2 Fill in the blanks with suitable Articles and Prepositions. (0.5x4)**

These days, \_\_\_\_\_ greatest challenge for many parents is related \_\_\_\_\_ their kids' overuse of online games. The government must put \_\_\_\_\_ ban \_\_\_\_\_ such dangerous games.

**Q.3 (A) Complete each sentence by choosing the correct word. (1.0x3)**

- A pack of dogs \_\_\_\_\_ seen outside my house yesterday. (was / is / were)
- Where from \_\_\_\_\_ the team of players eat? (do/ does/ have)
- She has never \_\_\_\_\_ me for my efforts. (praise/ praised/ praises)

**(B) Do as Directed. (1.0x3)**

- He did not make coffee. (Change into Passive Voice)
- There mother and Sara always goes to school together. (Correct the Sentence)
- She did not watch the show. (Change into Present Perfect)

**Sentence Construction**

**Q.4 Make meaningful sentences of these words: (1.0x3)**

- smash: \_\_\_\_\_
- minority: \_\_\_\_\_
- actively: \_\_\_\_\_

**Q.5 Translate into English. (1.0x3)**

■ کیا ظالم انسان اس وقت سو رہا ہے؟

■ تم نے کل کھیلوں میں حصہ نہیں لیا۔

■ علی عید پر نیا بکرا خریدے گا۔

## Answer Key to Class: 7

### ENGLISH

#### Q1. (A) CORRECT SPELLING.

- numerical
- resistance

#### (B) WORDS/MEANINGS

- advise, recommend
- irritating, joking
- increase, rise
- important, basic, vital

تجویز دینا، مشورہ دینا

تنگ کرنا

بڑھنا۔ بڑھانا

ضروری، اہم

#### (C) OPPOSITES

- oldest, ancient
- sure, confident

#### (C) NOUNS-VERBS-ADJECTIVES

- division-divide-divided
- approval, approve, approved

#### Q2. ARTICLES/PREPOSITION

These days, **the** greatest challenge for many parents is related **to** their kids' overuse of online games. The government must put **a** ban **on** such dangerous games

#### Q3. (A) CHOOSE THE CORRECT WORD

- A pack of dogs **was** seen outside my house yesterday.
- Where from **does** the team of players eat??
- She has never **praised** me for my efforts.

#### (B) DO AS DIRECTED

- Coffee was not made by him.
- Their mother and Sara always go to school together.
- She has not watched the show.

#### Q4. SENTENCE CONSTRUCTION

- Smash, minority, actively

#### Q5. TRANSLATION.

- Is the cruel man sleeping at the moment?
- You did not take part in games yesterday.
- Ali will buy a new goat on Eid.

**SIDDEEQ PUBLIC SCHOOL**

**ENTRY TEST ... 46**

**SCIENCE**

**Max. Marks: 10**

**ADMISSION to CLASS: 6**

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**Objective**

**Q.1 Fill in the blanks.** (1.0×4)

- (i) \_\_\_\_\_ are the harmful microorganisms which can reproduce only within an organism.
- (ii) \_\_\_\_\_ is the female reproductive part of a flower which consists of stigma, style and ovary.
- (iii) Expansion of a metal on heating is an example of a \_\_\_\_\_ change.
- (iv) Bulb, switch, wires and \_\_\_\_\_ are the basic components of an electric circuit.

**Short-Answer Questions** (Best three will be considered.) (2.0×3)

**Q.2 Answer the following questions.**

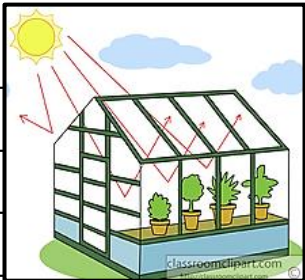
- (i) **What are translucent objects? Write the names of any two translucent objects.**  
*Translucent objects:* \_\_\_\_\_

*Examples:* \_\_\_\_\_

- (ii) **Complete the following table.**

Characteristic	Fishes	Mammals	Reptiles	Amphibians
<i>Type of skin</i>				

- (iii) **How does the greenhouse remain warm even in winters and help in the growth of plants inside them?**



- (iv) **What is the role of microorganisms in increasing the fertility of the soil?**

ADMISSION TEST TO CLASS: 7

SCIENCE

KEY

Q.1 Fill in the blanks.

- (i) electrical; mechanical/kinetic
- (ii) compound
- (iii) wheel; axle
- (iv) phloem; xylem

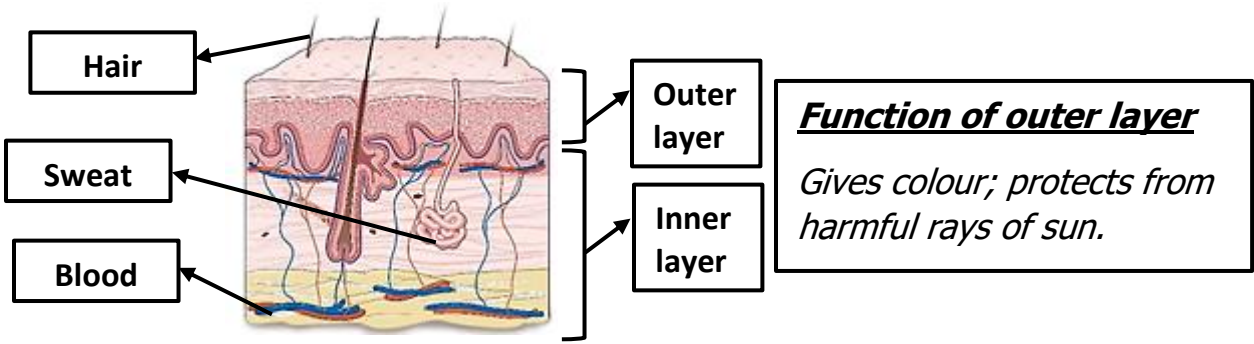
Q.2 Answer the following questions.

- (i) A solution in which the solvent cannot dissolve any more solute at a particular temperature.  
Take some amount of water in a container. Add half spoon of sugar in it and mix well. Keep on adding sugar to the solution until the sugar starts settling down at the bottom of the container. This is the saturated solution of sugar and water.

(ii)

Predator-prey relationship	Mutualism
<i>Differences</i>	
<b>Relationship between two animals in which one animal kills and eat (predator) another animal (prey).</b>	<b>Relationship between two organisms which live together and depend on each other. It is a friendly relationship.</b>
<i>Example</i>	
<b>Lion and deer</b>	<b>Algae and fungi (lichen)</b>

(iii)



- (iv) Sound travels by passing on its vibrations to the particles of some medium. The vibrating particles hit each other and pass on the vibrations as sound.  
Particles in solids are very closer together than in liquids, therefore, sound travels faster in solids as compared to liquids.