Entry Test 47
Answer Key to Class: 7

ENGLISH

1. (A) **Correct Spellings** ⌂ persuade ⌂ challenge

(B) **Meanings** ⌂ choice, possibility, پسند

⌂ enlarge, broaden, پھیلنا

⌂ warning, ultimatum, دھمکی

⌂ equal, identical, برابر

(C) **Opposites** ⌂ horizontal ⌂ cowardice

Word Families ⌂ achievement/ achiever achieve ⌂ criticize/ critique critical/ criticizable

2. **Articles and Prepositions**

My university is observing the World Nutrition Week **in** the coming month. **On** this occasion **the** university has arranged **a** lecture for the students.

3. (A) **Complete Sentences**

⌂ The man **will be** riding the horse.

⌂ **Had** he not sold his property before 2019?

⌂ He **managed** to collect some money for charity.

(B) **Do as Directed.**

⌂ Tea has not been taken by us.

⌂ The kings **do** not take off **their** crowns.

⌂ They will not tear the book.

4. **Sentence Formation**

⌂ announce: verb ⌂ historic: adjective ⌂ approval: noun

5. **Translation**

⌂ He respects the elders.

⌂ Nobody helped us.

⌂ Where was the driver parking the car?

ADMISSION TEST TO GRADE: 7
SCIENCE
KEY

Q.1 Fill in the blanks.

(i) epidermal (ii) saliva (iii) homogeneous (iv) parallel

Q.2 Answer the following questions.

(i) a) rice, bread, grains, fruits, etc.
b) Headache, fatigue, weakness, body's growth may stop.

(ii) a) Particles in gases are far away from each other and can easily be compressed, whereas, the particles in solids are tightly packed.
b) The particles have weak attractive forces, this allows them to slide past one another, so liquids can flow.

(iii) When ball is lying on the table it has potential energy, kinetic energy is zero. When it falls down on the floor its potential energy changes to kinetic energy.

(iv) When salt solution is heated, the water vapourizes and passes through the condenser where the vapours are cooled by the water flowing around it and are converted to liquid water. This water is pure and collected in the flask. Salt in left behind in the flask.

<u>ANSWER KEY</u>

1. (i) 2 , 0 , -1 ,-10   (ii) Associative   (iii) $2^3=8$ (iv) -x

2. (i) $(-1)^2 -2(-1)+1 = +1+2+1 = 4$
   (ii)   common factors = 2 & 3

   HCF = Product of common factors = $2 \times 3 = 6$

3.   Decreased amount = 8% of Rs 8500
$$= \frac{8}{100} \times \text{Rs } 8500 = \text{Rs } 680$$
   New amount = Original amount – decreased amount
$$= \text{Rs } 8500 - \text{Rs } 680 = \text{Rs } 7820$$

4. Total amount = Rs 363
   Let the price of pen be x
    Price of the books = Rs 3 + Rs $5x$
   So, according to the given condition,
$$x+3+5x= 363$$
$$6x +3 = 363$$
$$6x= 363-3$$
$$6x=360$$
$$x=\frac{360}{6}=60$$
   Hence, the price of the pen is Rs 60.

5. ***Method # 1:*** *Let x be the number of words typed in 1 hour*
   As we know 1 hour = 60 minutes
   Words(typed)   Time/Minutes
   540   9
   x   60

   540 : x :: 9 : 60

$$\frac{540}{x} = \frac{9}{60}$$

   9x = 540× 60   As product of extremes = product of means

$$x= \frac{540 \times 60}{9}$$
   x = 3600
So, A typist can type 3600 words in 1 hour.

Method 2 : *As we know 1 hour = 60 minutes*

   Words he can type in 9 minutes = 540

Words he can type in 1 minute = $\frac{540}{9} = 60$

Words he can type in 60 minutes = 60 × 60 = 3600