

# نموذج **1** لمادتي الرياضيات والعلوم باللغة الإنجليزية للصف الأول الإعدادي الفصل الدراسي الأول



# Model (1)

#### Science

- 1. The liquid element whose molecule contains one atom is ......
  - a) Neon
- b) Mercury
- c) Bromine
- d) Oxygen
- 2. The third energy level M saturated ...... electrons.
  - a) 6
- b) 8

- c) 18
- d) 32
- 3. The smallest part of the matter which can exist freely is ......
  - a) atom
- b) compound
- c) element
- d) molecule
- 4. The work done during the motion of an object is ...... energy.
  - a) kinetic
- b) potential
- c) mechanical
- d) electrical
- 5. The heat transfers by radiation occurs in ......
  - a) liquids only

- b) gases only
- c) materialistic and non-materialistic media
- d) metals only
- 6. The number of front fingers of an hawk is ......
  - a) 1
- b) 2
- (c) 3

d) 4

#### Maths

1) If 
$$X = \frac{2}{7}$$
, and  $Y = 7$ , then  $XY = \dots (7, 9, 14, 2)$ 

2) If 
$$(x-3)^2 = x^2 - 6x + m$$
, then  $m = ..... (3, 6, 9, 12)$ 



3) The highest common factor of the two algebraic terms  $30x^2y^2$ , 5xy is .......

$$(5xy^2 - 5xy + 15x^2y^3 + 75x^3y^5)$$

- 4) The mode of 4,3,7,5 and 5, is ....... (3 , 4 , 5 , 7 )
- 5) If m( $\angle$  A)+ m( $\angle$  B) =180° ,then angle A and angle B are .......

( equal in measure , complementary , adjacent , supplementary )

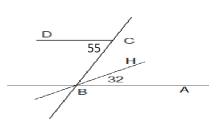
6) If 
$$\triangle ABC \equiv \triangle XYZ$$
, then ..... (XY = AB, AC = YZ,  $m(\angle B) = m(\angle Y)$ , XZ = AB)

7) If (
$$\angle A$$
)  $\equiv$  ( $\angle B$ ) , m( $\angle A$ ) = 30°, then m( $Reflex \angle B$ ) = ......° ( 60 , 150 , 250 , 330 )

8) In the opposite figure :  $\underset{CD}{\longrightarrow}$  //  $\underset{BA}{\longleftrightarrow}$  , m( $\angle DCB$ ) = 55° and

$$m(\angle HBA) = 32^{\circ}$$
, then  $m(\angle HBC) = .....^{\circ}$ 

( 32 , 23 , 13 , 24 )



# نموذج **2** لمادتي الرياضيات والعلوم باللغة الإنجليزية للصف الأول الإعدادي الفصل الدراسي الأول



## Model (2)

#### Science

- - a) 1
- b) 2
- c) 3
- d) 4
- 2. In sodium atom 11Na, the electronic configuration will be in ......
  - a) one energy level
- b) two energy levels
- c) three energy levels
- d) four energy levels
- 3. The product of combination of two elements or more different of elements with constant weight ratio is ..........
  - a) atom
- b) compound
- c) element
- d) molecule
- 4. The stored energy inside a body due to a work done on it is called ......
  - a) motion
- b) potential
- c) mechanical
- d) electrical
- 5. In solar heaters, the solar energy is converted to ...... energy
  - a) optical
- b) electrical
- c) thermal
- d) kinetic
- 6. Which of the following rodents undergoes aestivation?.....
  - a) Squirrel
- b) rat
- c) jerboa
- d) desert snail

#### **Maths**

1) The angle whose measure 70° complements an angle of measure .......°

2) If  $\triangle ABC \equiv \triangle XYZ$ , If m( $\angle A$ )+ m( $\angle Y$ ) =100°, then m( $\angle C$ ) = ......

3) If m( $\angle$  B)  $\equiv$  m( $\angle$  C) , where  $\angle$  B ,  $\angle$  C are supplementary , then m( $\angle$  B) = ......

4) In the opposite figure:

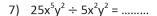
$$\overrightarrow{\text{CD}}$$
 //  $\overrightarrow{\text{BA}}$  m( $\angle \text{ABC}$ ) = 40°, then m( $\angle$  BCD) = ......°

5) The multiplicative inverse of  $\ 1$  is ......

$$(1, -1, 0, 2)$$

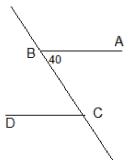
6) The simplest form of the expression: (X-2)(X+2) + 4 is ......

$$(X^2 + 4, X^2 - 4, X^2, 4)$$



$$(5x^{7}y^{4}, 5x^{3}, 5x^{3}y, 5x^{7})$$

8) The mean of the values: 1,2,4,3 and 10 is ....... ( 3 , 4 , 5 , 20 )





# نموذج 🛢 لمادتى الرياضيات والعلوم باللغة الإنجليزية للصفّ الأول الإعّدادي الفصل الدراسي الأول



## Model (3)

#### Science

- 1. Water molecule is consists of ......
  - a) one element
- b) two elements
- c) 3 elements
- d) 4 elements
- 2. In a Chlorine atom  $^{35}_{17}$ CL the number of neutrons is ......
  - a) 17

- b) 18
- c) 35
- d) 52
- 3. The simplest pure form of the matter which can't decompose chemically into simpler substance .....
  - a) atom

- b) compound
- c) element
- d) molecule
- 4. The sum of potential and kinetic energies is ......
  - a) Motion
- b) Potential
- c) element
- d) Molecule
- 5. The mechanical energy is converted to thermal energy through ......
  - a) dynamo

- b) electrical heater
- c) electrical motor
- d) friction between moving bodies
- 6. From the animals without body support?
  - a) octopus
- b) mussels c) hedgehog
- d) snake

### **Maths**

1. The sum accumulative angles drawn at one point is .......

2. If  $\triangle ABC \equiv \triangle XYZ$ ,  $m(\angle A) = 40^{\circ}$ ,  $m(\angle B) = 80^{\circ}$ , then  $m(\angle Z) = \dots^{\circ}$ 

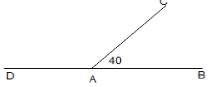
(40,60,120,140)

3. If the shape ABCD  $\equiv$  the shape XYZL, then AD = ......

4. In the opposite figure:

$$\overrightarrow{AC} \cap \overrightarrow{BD} = \{A\}$$
,  $m(\angle BAC) = 40^{\circ}$ , then  $m(\angle CAD) = \dots^{\circ}$ 

(50, 140, 130, 120)



- 5. If  $\frac{x-2}{x+5} = 0$ , then  $x = \dots$  (-5, -2, 2, 5)
- 6. The algebraic term XY<sup>2</sup> is of ...... Degree (Second, Third, Fifth, Sixth)
- 7. The remainder of subtracting 15X from 20X is ...... (2X, 5X, 5, -5)
- 8. The mode of the values 4,4,3,2 and 7 is ...... (3,4,5,20)