Department of Education – Western Province First Term Evaluation-2018 Grade 7 Mathematics

| Grade 7 Mathematics |
|---|
| Name Time: 2 Hours |
| Part I Answer all the questions on this paper itself. Each question carries 02 marks. |
| 01. Draw all the axes of symmetry of the following figure. |
| |
| 02. If the following statements are true put √ and if they are false put x in front of the each statement. a) In a bilaterally symmetric figure, the two parts on either side of an axis of symmetry are equal in shape and in area. () b) When you fold a plane figure along a straight line, if the two parts obtained are equal in area but does not coincide, the folded line is called the axis of symmetry () c) Number of axes of symmetry in a square and a rectangle are equal. () d) There will be 2 axes of symmetry in a bilaterally symmetric figure. () |
| 03. Write the set A={Digits of the number three thousand six hundred and sixty six} by writing all the elements that belong to A within curly brackets. |
| 04. Express the set A = {a, e, i, o, u}in a Venn diagram. |
| 05. Simplify. i) $8+3 \times 5 =$ ii) $5 \times 8 - 8 =$ |
| 06. Find the value. $15 + (14 - 5) \div 3 =$ |
| 07. From the following, select and underline the numbers which are divisible by 9. |
| |

| 08. The number 10 \square 2 is divisible by 6. Find the suitable digit for the empty space |
|--|
| 08. The number 19 2 is divisible by 6. Find the suitable digit for the empty space. |
| 09. Write 60 as a product of its prime factors. |
| |
| |
| |
| 10 Find the Highest Common Factor of 2 3 5 |
| 10. This the frighest common Pactor of 2, 5, 5. |
| |
| 11. In a^3 , |
| i. Write the base - |
| ii. Write the index- |
| 12. i. Expand and write as a product. 5^3a^2 |
| |
| ii. Write the expression using index notation. $2 \times 2 \times 2 \times p \times p$ |
| |
| 12. To which contury does the time period from AD 2001 to AD 2100 belongs? |
| 13. To which century does the time period from AD 2001 to AD 2100 belongs? |
| |
| 14. From the following years, select an underline the leap years. |
| i. AD 1900 ii. AD 2000 iii. AD 2004 iv. AD 2010 |
| |
| |
| 15. ABCD is a rectangle. If there are parallel lines, indicate |
| them using the parallel notation. |
| |
| В |
| 16. Draw a perpendicular to AB from A and name it as AP |
| |
| |
| |
| Δ Β |

03. Simplify

- i. $(36 \times 3) \div 9$
- ii. $36 \div (4 \times 3) 3$
- iii. In a clinic, a doctor charges Rs 1200 for every 15 minutes. If he attends to the clinic 2 hours per day for seven days, how much will he earn during a week?

04. Simplify

i. (-3)+(+1) ii. (-5)+(-4) iii. (-5)+(+5)iv. (+4.25)+(-3.75) v. (-2.15)+(-1.63)

05. Using only the straight edge and sets square, do the following constructions on the same diagram.

- i. Draw a straight line segment AB such that AB=7 cm and mark points A and B.
- ii. Draw a perpendicular to AB at the point A and mark the point C, 5 cm away from A.
- iii. Draw a straight line through C parallel to AB.
- iv. Complete the rectangle ACBD.

06. Draw the following angles using protractor and write down the type of each of the angles.

i) 40⁰

ii) 110^0 iii) 260^0

iv) Name the 40⁰ angle that have drawn as $A\hat{B}C$, and name the vertex and an arm of it.

- 07. (a) Complete the figure to obtain a bilateral symmetric figure.
 - (b) If x=2 and y=3, find the value of $2x^2y$.

(c)Write down the set A which is represented in a Venn diagram in terms of a common property of its elements by words within curly brackets.

