VENUS WORLD SCHOOLS

Academic Session-2021-22

Half Yearly Test

Grade -VII **Time -2 hr**

Sub – Mathematics **Max Marks- 50**

General Instructions: *Section A consists 1 mark questions*

Section B consists 2 mark questions

Section C consists 3 mark questions

Section D consists 4 mark questions

Attempt any 14 questions of section A;

any 8 questions of section B;

any 4 questions of section C,

any 2 questions of section D

Section A

Q.1 The ratio of a unit is:

(a) rupees

(b) metres

(c) no unit

(d) grams

Q.2. The ratio of 20 days to 72 hours is

(a) 2 : 1

(b) 3 : 20

(c) 4 : 5

(d) 20 : 3

Q.3 Perimeter of a square =

(a) side × side

(b) 3 × side

(c) 4 × side

(d) 2 × side

Q. 4 Area of a parallelogram =

(a) base × height

(b) 12 × base × height

(c) 13 × base × height

(d) 14 × base × height

Q.5 The circumference of a circle of radius r is

(a) πr

(b) 2πr

(c) πr^2

(d) 14 πr^2

Q.6 If r and d are the radius and diameter of a circle respectively, then
(a) d = 2 r
(b) d = r
(C) d = 12 r
(d) d = r^2

Q. 7 1 m^2 =
(a) 10 cm^2
(b) 100 cm^2
(c) 1000 cm^2
(d) 10000 cm^2

Q. 8 The cost of 4 m cloth is Rs 140. Find the cost of 9 m of cloth.
(a) Rs 215
(b) Rs 300
(c) Rs 320
(d) Rs 315

Q. 9 Which of the following is not the value of π ?
(a) 22/7
(b) 7/22
(c) 355/113
(d) 3.14

Q.10 On a number line, when we add a positive integer, we
(a) move to the right
(b) move to the left
(c) do not move at all
(d) none of these

Q. 11 (- 20) × (- 5) is equal to
(a) 100
(b) – 100
(c) 20
(d) 5

Q.12 Write the following statement in the form of an equation "The number b divided by 6 gives 5".
(a) b – 5 = 6
(b) 5b = 6
(c) b + 5 = 6
(d) b/6 = 5
Q.13 The solution of the equation 4p – 3 = 13 is …….
(a) 1
(b) 2
(c) 3
(d) 4

Q.14 (- 6) ÷ (- 3) is equal to
(a) 1
(b) 2
(c) 3
(d) 6

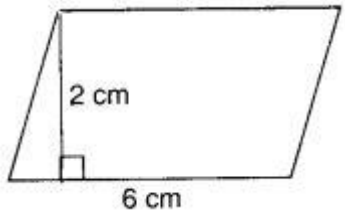
Q.15 Which of the following statements is wrong?
(a) When a positive integer and a negative integer are added, we always get a negative integer
(b) Additive inverse of 8 is (- 8)
(c) Additive inverse of (- 8) is 8
(d) For subtraction, we add the additive inverse of the integer that is being subtracted, to the other integer.

Section B

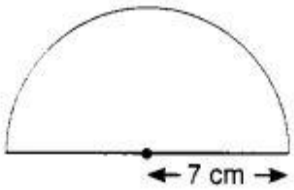
Q.16 Arrange the following fractions in ascending order **:**
2/7 3/5 5/6

Q.17 In a computer lab, there are 3 computers for every 6 students. How many computers will be needed for 24 students?

Q 18. Find the area of the following ; parallelogram:



Q19 The perimeter of the following figure is



Q. 20 Solve.
(i) (-8) × (-5) + (-6)

Q.21 The sum of two integers is 116. If one of them is -79, find the other integers.

Q.22 Find the ratio of:
(a) 5 km to 400 m

Q. 23 Convert the following equations in statement form:

a) 3z = 27
b) 2x +3 = 5

Q.24 Draw any two figure having no lines of symmetry.

Q.25 State the order of rotational symmetry of the following figures.

Equilateral triangle
(*i*)

Regular pentagon
(*ii*)

Section C

Q.26 State whether the following ratio is equivalent or not?
(a) 2 : 3 and 4 : 5

Q. 27 . A wire is in the shape of a rectangle. Its length is 40 cm and breadth is 22 cm. If the same wire is rebent in the shape of a square, what will be the measure of each side. Also find which shape encloses more area?

Q.28 Write down a pair of integers whose
(i) sum is -5
(ii) difference is -7
(iii) difference is -1

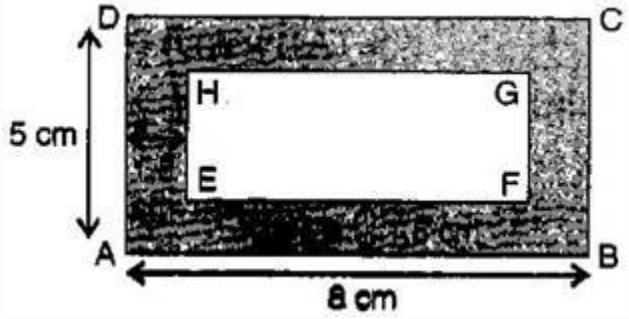
Q.29 The perimeter of a circle is 176 cm, find its radius.

Q.30 9 – {7 – 24 ÷ (8 + 6 × 2 – 16)}

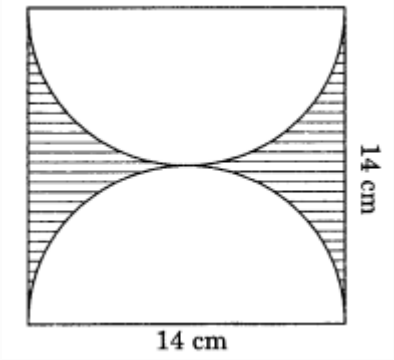
Q. 31 Evaluate
a) (-30) ÷ 10
(b) 50 ÷ (-5)

Section D

Q.32 A door of length 2 m and breadth 1 m is fitted in a wall. The length of the wall is 4.5 m and the breadth is 3.6 m. Find the cost of white washing the wall, if the rate of white washing the wall is Rs. 20 perm2m2**.**



Q. 33 Find the area of the shaded portion in the figure given below.



Q. 34 A square paper sheet has 10 2/5 cm long side. Find its perimeter and area.

Q. 35 The length of a rectangle is twice its breadth. If its perimeter is 60 cm, find the length and the breadth of the rectangle.

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