BHARATIYA VIDYA BHAVAN , KOCHI

PERIODIC TEST – 2 (2019-2020) TIME : 1 Hr

CLASS : VI MATHEMATICS Max. Marks : 30

SECTION - A **(1 x 6 = 6)**

1) The improper fraction of $4\frac{2}{7}$ is .....

2) Write as decimal : $30 + 3 + \frac{3}{100}$ = ...

3) If one note book cost Rs n , Then the cost of 10 note books is Rs.....

4) 12 Kg 20 g = ... Kg

5) The algebraic expression for the statement 'one fourth of a number x is 9' is .....

6) $\frac{21}{35} = \frac{3}{\text{.....}}$

SECTION- B **(2 x 6 = 12)**

7) Represent $\frac{4}{7}$ and $\frac{9}{7}$ on a number line.

8) Let Krishna's present age be y years.

(a) What will be her age after 5 years?

(b) Her father is 4 times her age. What is the age of her father?

9) Find the value of 5.6 + 6.09 – 4.003

10) Arrange in ascending order.

5.05 , 3.005 , 3.50 , 5.15

11) Reduce $\frac{48}{60}$ to its lowest form.

12) Write as fraction in lowest terms.

(a) 0.5

(b) 0.60

SECTION- C **(3 x 4 = 12)**

13) Sreeja went to a Supermarket with Rs 3250 in cash. Out of this money she purchased provisions for Rs 2355.75 and vegetables for Rs 478.50.Howmuch money is left with her?

14) Krishnadev bought $2\frac{3}{4}$ Kg of Apples and $1\frac{1}{2}$ Kg of Oranges. Find the total weight of fruits he bought?

15) Find the solution of the following equations from the values given in the brackets.

(a) $a+5=3$ $(0, -1, -2, -4)$

(b) $\frac{v}{3}=15$ $(3, 9, 45, 54)$

(c) $f+3=10$ $(3, 7, -7, 10)$

16) Simplify (a) $8\frac{1}{7}-3\frac{4}{7}$

(b) $\frac{3}{2}+\frac{5}{3}+\frac{1}{6}$

****

munshi-123

BHARATIYA VIDYA BHAVAN, KOCHI

HALF YEARLY EXAMINATION (2019-20)

MATHEMATICS

CLASS: VI

MAX. MARKS: 80

TIME : 2½ HOURS

SECTION A

FILL IN THE BLANKS (10 X 1 = 10)

1. Representation of data through symbols and pictures is known as .....
2. Roman numeral for 150 is .....
3. The greatest negative number is .....
4. Smallest composite number is .....
5. The successor of -1 is .....
6. 1 Billion = ...Million.
7. H.C.F of 2 co prime numbers is .....
8. A four sided polygon is called .....
9. The additive inverse of 100 is .....
10. The smallest digit in the blank space of 5..273 is ....so that the number formed is divisible by 3

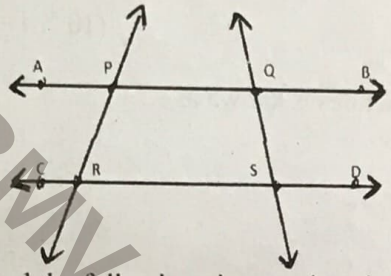
SECTION B (10 X 2 = 20)

11. Prime factorise 540
12. Check the divisibility of 3240512 by 11.
13. Insert commas and write the number name of 37456192 according to International system of numeration.
14. Add -5+4 on the number line.
15. Find
    a. (-125) +(-53)
    b. -75 – 80
16. Find the first two common multiples of 12 and 16
17. Arrange in ascending order
    +158, -48, +253, -169, -281
18. Estimate 5692 x 724 using general rule.
19. Find the difference between the largest 7 digit number and smallest 5 digit number.
20. Write whether the following statements are true or false. If the statement is false write the correct statement.
    a. -9 is to the left of -10 in the number line.
    b. All chords are diameters of circle.

SECTION C

(10 X 3 = 30)

21. Find using suitable properties.
    a. 3652 x 92 + 8 x 3652
    b. 459 x 102
22. From the following figure, name
    a. Four line segments
    b. Two pairs of intersecting lines
    c. Four rays



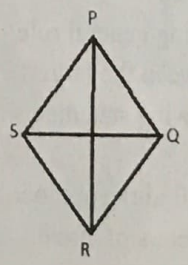
23. Read the following pictograph and answer the following

COLOURS	NUMBER OF PEOPLE	□ = 10 people
BLUE	□□□□□	
GREEN	□□□	
RED	□□□□□◺	
WHITE	□□	

    a. Find the number of people preferring blue colour
    b. How many people like red colour?

24. Find
    a. (-134) – (-61) + 72
    b. 216 – 59 + (-125)

25. Find the smallest four digit number divisible by 16, 24 and 36.
26. From the following figure name
    a. 2 pairs of opposite sides
    b. 2 pairs of adjacent sides
    c. 2 diagonals



27. Find the LCM of 75, 100 and 120
28. 2m 75cm cloth is needed to make a shirt. What is the length of cloth needed for 16 such shirts?
29. Express each of the following numbers as the sum of twin primes
    a. 36
    b. 84
30. Find using suitable rearrangement
    a. 8 x 362 x 125
    b. 236 + 2651 + 764 + 5349

SECTION D (5 X 4 = 20)

31. The number of sheets of paper available for making note books is 750. Each sheet makes 8 pages of a note book. Each note book contains 20 pages. How many note books can be made from the paper available?
32. The following table shows the number of students of various classes in a school. Draw a bargraph to represent the data.

Class	6	7	8	9	10	11	12
Number of students	140	130	100	140	135	150	145

33. Draw a circle and mark
    a. a sector
    b. a segment
    c. an arc
    d. a diameter
34. The length, breadth and height of a hall are 1050cm, 750 cm and 425 cm respectively. What can be the maximum length of a tape with which we can measure the 3 dimensions of the room exactly?
35. In a morning walk, three persons step off together. Their steps measure 80cm, 85cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps ?

Anushi-134

BHARATIYA VIDYA BHAVAN KOCHI KENDRA

PERIODIC TEST 1 (2019- 20)

STD: VI **MATHEMATICS** **TIME: 80 Minutes**

Marks: 30

Choose the correct answer.

1. 1 million = _____ thousand [(a) 100 (b) 10 (c) 1000 (d) 1]
2. The Roman Numeral for 345 is _____ [(a) CCCLXV (b) CCCXLV (c) CCLXV (d) CCXLV]
3. The smallest composite number is _____ [(a) 4 (b) 1 (c) 6 (d) 5]

Fill in the blanks.

4. The successor of the largest five digit number is _____.
5. The property used in $47 \times 51 = 51 \times 47$_____
6. The _____ is a collection of numbers gathered to give some information.

[$6 \times 1 = 6$]

7. Insert commas suitably and write the number names of the given number in both Indian and International place value system.
   73485269
8. Estimate the sum of 7638 + 458 + 2482 by rounding off the numbers to nearest 100's
9. (i) Write all the factors of 18.
   (ii) Write any one pair of twin prime number.
10. The data of class attendance of 30 students in a class for 20 days is given below.

18	17	16	15	19	20	17	18	15	19
16	15	17	20	14	16	18	17	19	18
14	15	17	18	19	16	15	14	15	16

Prepare a frequency table for the above information using a tally mark.

11. Find the difference between the largest and smallest 6 digit number formed by using the digits. 4,7,0,8,1,5
12. Find the value by suitable arrangement?
    (i) 25 x 856 x 4
    (ii) 673 + 3348 + 327 + 652

[6 × 2 = 12]

13. Check the divisibility by 3,4,8 for the given number.

485320

14. Find the product using suitable property.

(i) $3127 \times 124 - 3127 \times 24$

(ii) 536×1004

15. Anjana has ₹ 6,83,450 with her. She donated ₹5,325 to each child in an orphanage. There are 38 children staying in the orphanage. Find the amount of money left with her after donating. Write this amount in nearest thousand. What moral value is depicted in this question?

16. The population of various cities at a certain period of time given. Draw a bar graph using a suitable scale and answer the following question.

City	Delhi	Mumbai	Kolkata	Chennai	Bangalore	Hyderabad
Population (in lakh)	80	120	110	70	60	50

(i) Name the least populated city.

(ii) What is the population of all cities?

[4 × 3 =12]

Lib

BHARATIYA VIDYA BHAVAN, KOCHI

FINAL EXAMINATION (2018-2019)

MATHEMATICS

STD.VI

TIME : 2 hours 30 minutes
Max Marks : 80

SECTION A

1) Fill in the blanks (Each question carries 1mark)

a) A triangular pyramid has ---------- faces.

b) The integer which is 2 less than – 7 is ----------.

c) $\frac{2}{5} = \frac{\text{.....}}{15}$

d) 12 kg 20 g = ---------- kg

e) ---------- is the H C F of 6 and 8.

f) The ratio of 36 minutes to 1 hour is ----------.

g) The improper fraction of $3\frac{1}{8}$ is ----------.

h) ---------- is the area of a square plot of side 8 m.

i) ---------- is the place value of 2 in 148.32

j) The ratio of the number of sides of a square to the number of edges of a cube is ---------- .

SECTION B (Each question carries 2 marks)

2) Sooraj was given $\frac{6}{11}$ of a basket of oranges. What fraction of oranges was left in the basket?

3) The perimeter of an equilateral triangle is 96 cm. Find the length of each side?

4) Find the value of 3.5 + 4.05 – 6.005

5) Do the ratios 15 cm to 2 m and 10 seconds to 3 minutes form a proportion? Give reason

6) Draw a line segment $\overline{AB}$ of length 9 cm and mark a point M on it. Through M draw a perpendicular to $\overline{AB}$. (Use ruler and compasses)

7) There are 20 boys and 25 girls in a class. Find the ratio of

i) number of boys to the number of girls

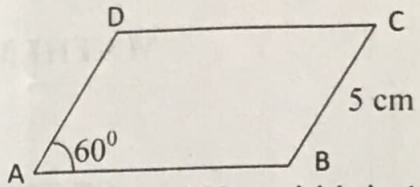
ii) number of girls to the total number of students

8) Construct an angle of measure 30^0.

9) ABCD is a parallelogram in which $\angle A = 60^0$, BC = 5 cm, then

i) m $\angle C$ = ----------

ii) AD = ----------



10) The area of a rectangular garden is 650 sq m. If its width is 13 m, find the length of the garden?

11) Match the following:

i) Triangular pyramid	-	a) five faces
ii) Triangular prism	-	b) twelve edges
iii) Cuboid	-	c) curved face
iv) Cylinder	-	d) six edges

12) Show the following numbers on the number line.

a) 0.3 b) 0.9 c) 1.1 d) 1.8

13) Bob jogs 8 times around a square park of length 40 m. Find the total distance covered by Bob?

SECTION C (Each question carries 3 marks)

14) Name the types of following triangles.

a) ΔDEF with $m\angle E=90^0$ and DE= EF.

b) In ΔLMN, LM=MN=LN

c) In ΔXYZ, XY=6 cm, YZ=5 cm, XZ=7 cm

15) A piece of wire $5\frac{3}{4}$ m long, broke into two pieces. One piece is $1\frac{7}{8}$ m long, how long is the other piece?

16) Divide ₹ 1000 between Kamal and Madhu in the ratio 3:2.

17) Draw a circle of radius 4.5 cm. Draw one chord of the circle and construct its perpendicular bisector.

18) Find: a) (−9) + (−7) + (−14)

b) (−37) + 12 − (−65)

c) (−43) − (−40) + (−19)

19) Find the least number which when divided by 25, 40 and 60 leaves a remainder 9 in each case.

20) Write as decimals.

a) $16 + \frac{3}{10} + \frac{5}{1000}$

b) Three hundred six and seven –hundredths.

c) $\frac{3}{4}$

21) A room is 12 m long and 8 m wide. A square carpet of side 9 m is laid on its floor. Find the area of the floor which is not carpeted?

22) Manu read 35 pages of a book containing 105 pages, while Saritha read $\frac{2}{5}$ of the same book. Who read more and by how much? What is the value depicted in it?

23) Find the cost of fencing a rectangular field 80 m long and 25 m wide at ₹ 25 per metre?

SECTION D (Each question carries 4 marks)

24) The weight of 65 books is 13 kg.

i) What is the weight of 80 such books?

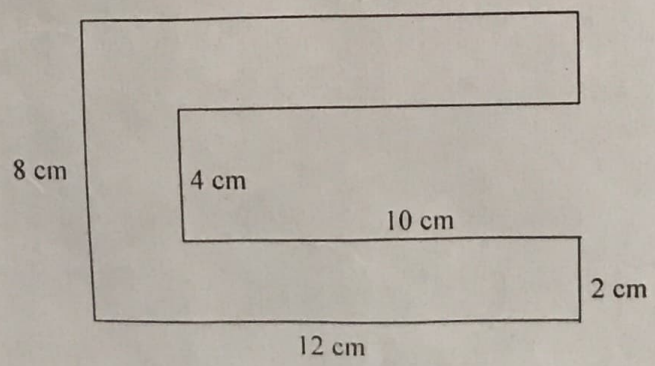
ii) How many such books weigh 39 kg?

25) Simplify: a) $8\frac{1}{8} - 2\frac{5}{6}$

b) $\frac{3}{2} + \frac{5}{3} + \frac{1}{6}$

26) The distance between Remya's house and her School hostel is 61 km. For reaching her house from the hostel, she covers 54 km 860 m by bus, 5 km 65 m by car and the rest of the distance by auto. how much distance did Remya cover by auto?

27) By spitting the following figure into rectangles, find the area.



****

BHARATIYA VIDYA BHAVAN,KOCHI
HALF YEARLY EXAMINATION 2018-19

STD:VI MATHEMATICS MARKS:80

TIME:2 ½hrs

SECTION A (1x6=6)

1. **Fill in the blanks**

a) The longest chord of a circle is_____

b) If one pen costs Rsx,then the cost of 9 pens is _____

c) The successor of -1 is _____

d) The number of lines that can be drawn passing through two distinct points is _____

e) The HCF of 7 and 13 is _____

f) A _____ is a collection of numbers gathered to give some meaningful information.

SECTION B (13X2=26)

2. **Compare using < or >**

-83 _____ -89

-261 _____ 181

0 _____ -1

-140_____ -104

3 Add using number line 5+ (-3)

4. Find the HCF of 144 and 210

5. Anu and Meenu are sisters.Anu is 5 years younger than Meenu.WriteAnu's age if Meenu's age is x years.

6. Find the LCM of 36,40,126

7. Rearrange the digits of the number 5701324 to get the largest number and the smallest number of 7 digits.

8. **Represent the following numbers as integers with appropriate sign.**

a) A plane is flying at a height of five thousand metre above the sea level

b) Withdrawal of rupees three hundred

c) Gain of Rupees hundred

d) 8^0C below freezing point

9. Using divisibility test check whether the number 73856948 is divisible by 11

10. **Write True or False.**

a) Every diameter of a circle is also a chord.

b) Every closed curve is a polygon.

11. Write all the prime numbers between1 and 20.

12. Put commas and write the number 80024036 in words in the Indian and International system of numeration.

13. Write the prime factorisation of 3195.

14. Write the Roman numeral for:

a) 673 b) 939

SECTION C

(8X3=24)

15. Arrange the integers in ascending order.

-51 , -312 , 0 , -9 , 27 , -1 ,111

16. Find the greatest 3-digit number which is exactly divisible by 8, 20 and 24

17. **Solve**

a) (-237) + 814 + (-213)

b) (-68) – 26 – (-49)

18. A merchant had Rs 78,592 with him.He placed an order for purchasing 54 bicycles at Rs 970 each.How much money will remain with him after the purchase?

19. Write the following numbers as the sum of three odd numbers.

a) 31 b) 61

20. Estimate the the following by rounding off to the nearest 100

a) 7259+ 2936 b) 2138 x 467

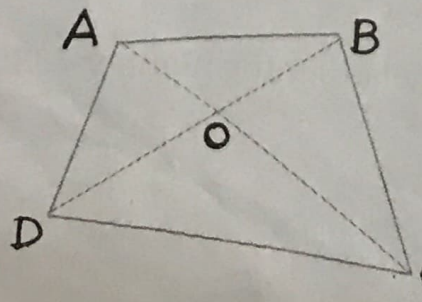
21. There are three heaps of rice weighing 120 kg, 144 kg and 204 kg. Find the maximum capacity of a bag so that the rice of each heap can be packed in exact number of bags.

22. **Identify**

a) Any two triangles in the figure

b) Write the names of any 4 angles.

c) Write the names of any 4 line segments.



SECTION D (6 X 4 = 24)

23. **Simplify using suitable property.**

a) 534 x 99

b) 186 x 269 – 186 x 69

24. **Draw a circle and mark the following:**

a) the centre

b) a radius

c) a diameter

d) a sector

e) a segment

f) an arc

g) a point in the interior

h) a point in the exterior

25. The sale of shirts in a garment shop on various days of a week are as follows

Mon	Tue	Wed	Thu	Fri	Sat
75	100	125	100	75	50

Draw a pictograph to represent the above information using one symbol ⊗ to represent 25 shirts.

26. **Give expressions for the following:-**

a) a multiplied by -5

b) m subtracted from 7

c) Two subtracted from 5 times y

d) x is multiplied by 5 and then the result is added to 16

27. The number of trees planted by Eco club of a school in different years is given below.

Year	2005	2006	2007	2008	2009	2010
No: of trees planted	150	400	300	550	350	150

Draw a bar graph to represent the data .

28. **Find using suitable property**

a) 843 X 4 X 25

b) 125 X 50 X 8 X 25

BHARATIYA VIDYA BHAVAN, KOCHI

PERIODIC TEST - 2 (2018-2019)

Class VI | MATHEMATICS | Time: 80 min

Marks: 30

SECTION A

Fill in the blanks: (6 x 1 = 6)

1) A fraction equivalent to $\frac{20}{36}$ with denominator 9 is _____

2) Decimal form of $\frac{7}{25}$ is _____

3) 5m 5cm = _____ m

4) $\frac{1}{4}^{th}$ of a century is _____ years .

5) The simplest fractional form of 0.25 is _____

6) The place value of 6 in 389.26 is _____

SECTION B

7) Arrange in ascending order : (6x2=12)

3.03 , 3.003 , 3.31 and 3.3

8) Write the fractions in descending order: $\frac{9}{14}$, $\frac{5}{7}$ and $\frac{7}{21}$

9) Simplify : a) 97.503 - 32.2

b) 0.008 + 2.5 + 30.08

10) Represent $\frac{2}{5}$, $\frac{4}{5}$ and $\frac{7}{5}$ on the same number line.

11) Write as decimals: a) Five hundred seven and nine tenths.

b) $20 + 6 + \frac{3}{1000}$

12) Reduce $\frac{48}{60}$ to its lowest form.

SECTION C (4 x 3 = 12)

13) Rahul bought 5 Kg 90g of apples, 2 Kg 80g of grapes and 5 Kg 300g of water-melon. Find the total weight of fruits he bought? Express the total weight in kilogram.

14) Find the value of :

a) $8\frac{3}{4} + 5\frac{1}{2}$

b) $\frac{5}{8} - \frac{7}{12}$

15) Monica went to the market with Rs 2500 in cash. Out of this money she purchased a frock and a toy which cost ₹ 1462.50 and ₹ 578.75 respectively. How much money is left with her?

16) Michel exercised for $\frac{3}{6}$ of an hour and Minnu exercised for $\frac{3}{4}$ of an hour. Who exercised for a longer time and by how much?

****

BHARATIYA VIDYA BHAVAN KOCHI KENDRA

PERIODIC TEST -1 (2018-19)

STD:VI **MATHEMATICS** **Time: 80 Minutes**

Marks: 30

FILL IN THE BLANKS

1. 1 crore = _____ lakh
2. _____ is the additive identity for whole numbers.
3. _____ is the diagrammatic representation of data through pictures of objects.
4. The predecessor of 108000 is _____.
5. 1 Km = _____cm.
6. (24 x 12) x 5 = 24 x (12 x 5) .The property used here is _____.

(1 x 6 = 6)

7. **Estimate by rounding off to nearest 100's** : 73499 — 43246
8. There are 20 families in your block. You collected information about the number of children in different families. The number of children in each family is given as below

   1, 3, 2, 1, 1, 2, 3, 2, 1, 2, 2, 1, 3, 1, 4, 1, 1, 2, 2, 1

   Prepare a table using tally marks
9. Write in Roman Numerals
   (a) 173 (b) 439
10. Insert commas suitably and write the names according to International system of numeration 98450076
11. Find the difference between the largest and smallest 5-digit numbers using the digits 3, 2, 0, 7.
12. Write the numeral
    (a) Six crore nine lakh forty seven
    (b) Fourteen million seven hundred twenty two thousand three hundred ninety four

(2 x 6 = 12)

13. Find the value by suitable rearrangement
    (a) 82 + 713 + 918 + 87
    (b) 625 x 312 x 16
14. Without actual multiplication , find using property
    (a) 645 x 1008
    (b) 573 x 10 x 198 – 5730 x 98

15. The following table shows the number of cars that took part in a car rally in different years.

Year	No: of cars
2007	25
2008	30
2009	45
2010	55
2011	35
2012	30

Represent the above data using a bar graph.

16. Mother bought 85 m of cloth to stitch dresses for an orphanage . For stitching one dress 3 m 20 cm cloth is required . Find out how many dresses can be stitched with this cloth . What moral value is depicted in this question?

(3 x 4 = 12)

BHARATIYA VIDYA BHAVAN, KOCHI

ANNUAL EXAMINATION (2017- 2018)
MATHEMATICS

STD VI

TIME: 2 ½ Hours
MARKS: 80

Section A

Fill up: **[1 x 10 = 10]**

1) 36 cm = ... m.

2) Perimeter of a regular hexagon of side 9 cm is ..... cm.

3) The ratio of 500 mL to 2 litres is .....

4) The simplest form of $\frac{12}{15}$ is .....

5) The sum of the place values of 8 in 3.878 is .....

6) A square pyramid has ..... vertices.

7) The additive inverse of (-13) is .....

8) The equivalent fraction of $\frac{2}{9}$ with denominator 63 is .....

9) The number which is neither prime nor composite is .....

10) A line which is perpendicular to given line segment and divides it into two equal parts is called .....

Section B

[2 x 10 = 20]

11) Draw a line segment AB of length 8.5 cm. Take a point P not lying on the line segment. Through P, draw a perpendicular to $\overline{AB}$ (using ruler and compasses).

12) Find the perimeter of a rectangle whose length and breadth are 22 m and 16 m respectively.

13) Are the numbers 8, 6, 20 and 15 in proportion?

14) Arrange the fractions in ascending order:
$\frac{5}{12}, \frac{3}{4}, \frac{7}{6}, \frac{2}{3}$

15) Draw a line segment of length 9 cm and construct its perpendicular bisector.

16) Divide Rs. 150 in the ratio 2 : 3 between Ravi and Manu.

17) Arrange the following decimals in descending order:

3.305, 2.590, 3.53, 2.95

18) Find the cost of tiling a square plot of land of side 7 m at the rate of Rs. 100 per square metre.

19) Name the types of following triangles:

a) Triangle with lengths of sides 8 cm, 9 cm, 10 cm.

b) In ΔABC, $< A = 40°$, $< B = 60°$, $< C = 80°$.

20) What is the angle name for:

a) Half a revolution.

b) One – fourth revolution.

Section C

[3 x 10 = 30]

21) Construct an angle of measure 60° and bisect it.

22) Radha, Ayusha and Mary planted trees in their school during Vanamahotsava celebration. Radha planted 20 trees, Ayusha planted 24 trees, Mary planted 34 trees. What is the ratio of number of trees planted by

a) Radha to that by Ayusha.

b) Ayusha to that by Mary.

c) Mention the moral value you depict from this.

23) Mrs. Gupta bought 1 kg of sweets. After her children had eaten some, $\frac{3}{5}$ kg of sweets left. How much did they eat?

24) Find

a) $(-21) + 45 + (-40)$

b) $(-75) - (-90)$

c) $50 + (-20) - 15$

25) The perimeter of a square field is 64 m. Find its side and area.

26) The weights of three packets are $3\frac{2}{5}$ kg, $2\frac{1}{3}$ kg and $5\frac{1}{5}$ kg. Find the total weight of these packets.

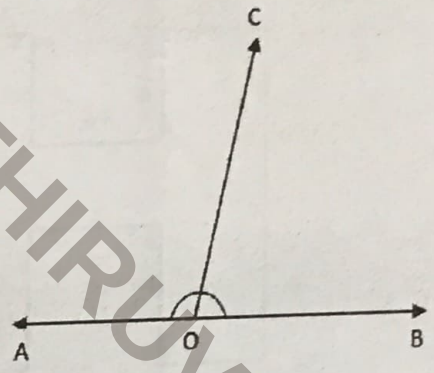
27) Write as decimals:

a) 3 tens + 4 hundredths

b) $\frac{3}{5}$

c) $\frac{47}{1000}$

28) Measure $\angle AOC$, $\angle BOC$, $\angle AOB$ and classify each angle:



29) Find

a) LCM of 18 and 24

b) HCF of 20 and 30

30) The floor area of a room is to be tiled with square tiles of side 50 cm. If the length of the room is 500 cm and breadth is 400 cm, find the number of tiles needed.

Section D

[4 x 5 = 20]

31) A man earns Rs.32,000 in 4 months.

a) How much will he earn in 7 months?

b) In how many months will he earn Rs.16,000?

32) Simplify:

a) $\frac{3}{10} + \frac{2}{15}$

b) $\frac{7}{8} - \frac{5}{12}$

33)

a) Add 6.032 + 8.45 + 18.02

b) Subtract 5.69 from 16.5

34) Name the quadrilateral that satisfies the description:

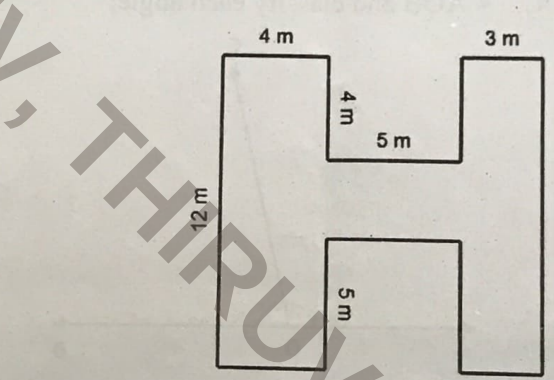
a) One pair of parallel sides.

b) Parallelogram with 4 right angles.

c) Parallelogram with 4 sides of equal length.

d) A rhombus with 4 right angles.

35) By splitting the following figures into rectangles, find the area.



Library

BHARATIYA VIDYA BHAVAN, KOCHI

PERIODIC TEST- 2, 2017-18

MATHEMATICS

STD: VI

MAX. MARKS:50

TIME: 2 HOURS

SECTION A

Fill in the blanks

1. The decimal form of $3 + \frac{7}{100}$ is .....
2. The improper fraction of $7\frac{2}{3}$ is .....
3. ..... is the angle name for half revolution.
4. 9009 cm = ...m.
5. $\frac{3}{9} = \frac{18}{\square}$
6. A square pyramid has ..... faces.
7. The sum of $\frac{5}{13}$, $\frac{2}{13}$ and $\frac{4}{13}$ is .....
8. Sum of the measures of 2 right angles is .....
9. The fraction that represents 7 hours a day is .....
10. An 8 sided polygon is called .....

(10 x 1 = 10)

SECTION B

11. Write 4 equivalent fractions for $\frac{2}{5}$.
12. Represent the following fractions on a number line.

    $\frac{1}{7}, \frac{3}{7}, \frac{0}{7}, \frac{5}{7}$
13. What should be added to $2\frac{1}{6}$ to get $4\frac{5}{6}$?
14. Express $\frac{3}{2}$ in decimal form.
15. Write TRUE or FALSE. If FALSE , correct the statement.

a) The opposite sides of a trapezium are parallel.

b) All the sides of a parallelogram are of equal length.

(5 x 2 = 10)

SECTION C

16. Compare using $<$, $>$ or $=$

a) 33.033 ☐ 33.303

b) $\frac{3}{5}$ ☐ $\frac{2}{3}$

c) 7 tenths ☐ 0.7

17. Name the type of the following triangles.

a) Triangles with lengths of sides 8cm, 9 cm and 11 cm.

b) ΔLMN with $m\angle L = 30^0$, $m\angle M = 60^0$ and $m\angle N = 90^0$

c) ΔDEF such that $\overline{DE} = \overline{EF} = \overline{DF}$.

18. Find

a) 0.75 + 10. 425 + 2.1

b) 100.80 – 25.76

19. Arrange the following in descending order

a) $\frac{2}{3}, \frac{1}{2}, \frac{5}{6}$

b) 43.134, 34.413, 43. 34, 34.146

20. Write 0.008 as fraction in the simplest form.

21. Harry walked 4km 35m in the morning and 1km 7m in the evening. How much distance did he walk in all?

(6 x 3 = 18)

SECTION D

22. Simplify

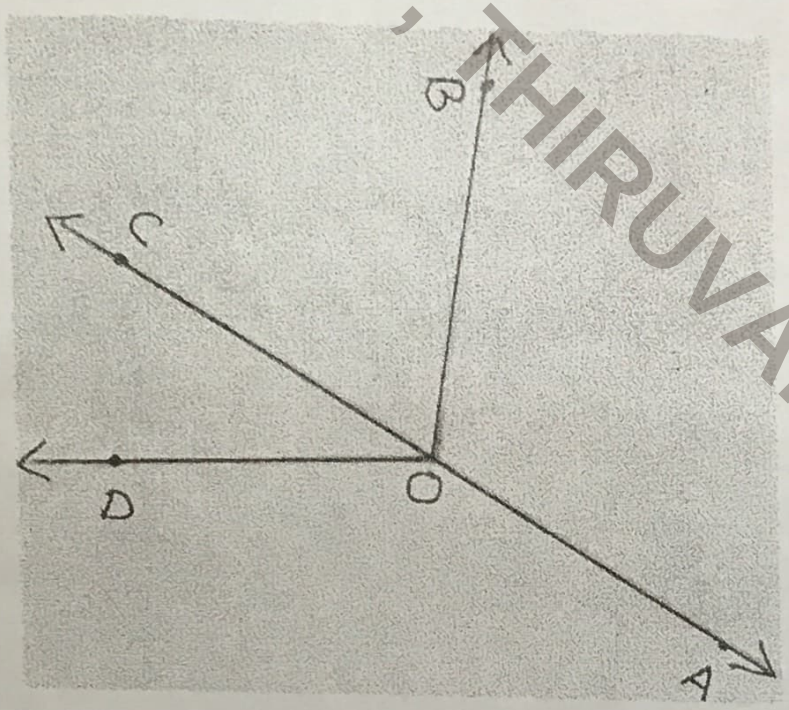
a) $3\frac{1}{7} + \frac{5}{14}$

b) $1\frac{2}{3} - \frac{5}{11}$

23. Radhika bought vegetables weighing 12kg. Out of this 5kg 750g is onions, 3kg 50g is cucumber and the rest is carrots. She donated these vegetables to an orphanage on her birthday.

a) Find the weight of the carrots.
b) What moral value is depicted here?

24. Measure and classify each angle.



Angle	Measure	Type
∠AOB		
∠BOC		
∠COD		
∠AOD		

(3 x 4 = 12)

BHARATIYA VIDYA BHAVAN, KOCHI

HALF YEARLY EXAMINATION 2017-18

STD: VI **MATHEMATICS** **MARKS: 80**

TIME : 2 ½ hrs

Section A

Fill in the blanks (Each question carries 1 mark)

1. One million = ---------- lakh.
2. ---------- is the predecessor of 6700000.
3. The Roman numeral for 99 is ----------.
4. The multiplicative identity for the whole numbers is ------.
5. Two numbers having only 1 as a common factor are called ----------numbers.
6. (-18) + ---------- = 0
7. The greatest negative integer is ----------.
8. The longest chord of a circle is known as ----------.
9. ---------- represents data through pictures of objects.
10. A ---------- is a simple closed figure entirely made up of line segments.

Section B

Answer the following (Each question carries 2 marks)

11. Estimate the product using general rule.

    405 x 8647

12. Find the prime factorisation of 729.

13. Check whether the number 91434 is divisible by 6

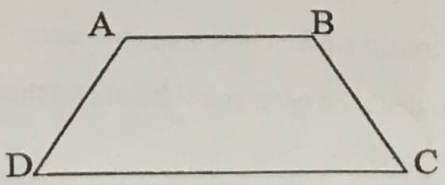
14. Put < or > or =

    a) 0 ------- (-10)
    b) (-19) ------- (-91)

15. Using number line, find (-6) + (5)

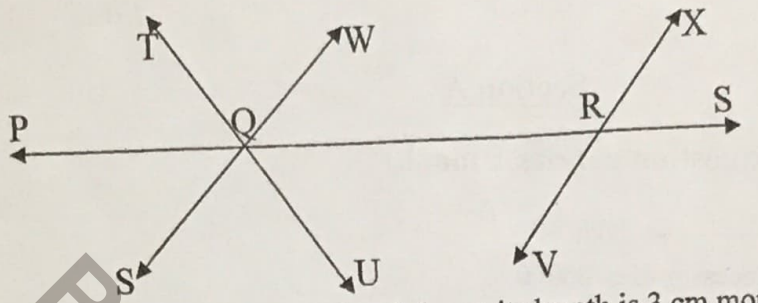
16. Arrange in descending order -40, 0, -20, 10

17. Name all the angles in the following figure



18. Using the given figure, name the following

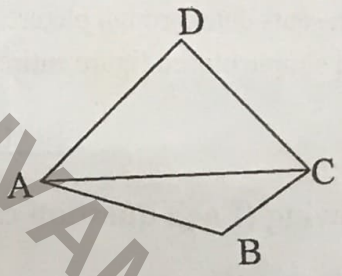
a) A pair of intersecting lines
b) A line passing through the point R.



19. The height of a rectangular box is h cm; its length is 3 cm more than twice the height and its breadth is 1 cm less than the height. Express length and breadth in terms of height.

20. Identify the following from the given figure

a). A pair of adjacent sides



b). A diagonal

SECTION C

(Each question carries 3 marks)

21. Insert commas suitably and write the name according to Indian and International system of numeration

7900690

22. Using suitable properties, find the value of the following:

a) 225 X 102

b) 477 X 1035 – 477 X 35

23. Find the HCF of 18, 54, 81

24. Three persons step off together for a morning walk. Their steps measure 48cm, 72 cm and 64 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

25. Simplify the following:

a) 241 + (-200)

b) (-156) – (-100)

26. a) Find the sum of (-87) and (-92)

b) Subtract (-15) from 112

27. Write the following numbers as integers .

a) 200 m below the sea level

b) 18°C above 0°C

c) A profit of Rs 150

28. Find the solution of the given equations:

a) 7m = 21

c) y + 8 = 10

29. Write expressions for the following statements:

a) y subtracted from 3

b) x added to 15

c) x multiplied by (- 5)

30. Complete the table and by inspection of the table find the solution to the equation

3y = 21

y	2	5	7
3y			

SECTION – D

(Each question carries 4 marks)

31. A tailoring unit stitched 24,956 baby suits. They were packed in 144 cartons each of which can hold 160 baby suits. Find out how many baby suits were left unpacked?

32. A land lord decided to distribute wheat bags to villagers who are below the poverty line. The number of wheat bags he distributed for the 6 months is given below:

VI MATHS

MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
NUMBER OF WHEAT BAGS	50	150	100	200	300	250

a) Represent the information in the form of a bar graph.

b) What is the value associated in this problem?

33. Simplify:

a) $(-8) + (-15) + 17$

b) $(-13) - (-7) - (6)$

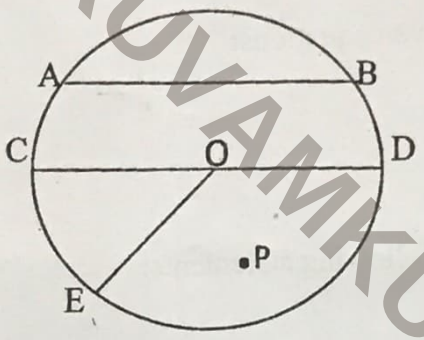
34. From the figure, identify:

a) a diameter

b) a chord

c) a sector.

d) a point in the interior



35. Let Anu's present age be t years

a) What will be her age after 5 years?

b) Her father is 4 times her age. What is the age of her father?

****