SUMMATIVE ASSESSMENT -2 (,2015-2016)

CLASS VII MATHEMATICS

CHAPTER/TOPIC	M C Q (1)	V S A (2)	S A (3)	L A (4)	ОТВА	TOTAL
CONGRUENCE OF TRIANGLES COMPARING	2(2)	1(2)	-	1(4)	-	4(8)
QUANTITIES	-	2(4)	1(3)	1(4)	_	4(11)
RATIONAL NUMBER PERIMETER AND	-	3(6)	1(3)	_	-	4(9)
AREA ALGEBRAIC	-		2(6)	1(4)	- -	3(10)
EXPRESSIONS	2(2)	-	2(6)	_	- -	4(8)
SYMMETRY	2(2)	-	_	_	-	2(2)
VISUALISING SOLID					_	
SHAPES OTBA	2(2)	-	-	-	_ _ 1(10)	2(2) 1(10)
TOTAL	8(8)	6(12)	6(18)	3(12)	1(10)	24(60)

SUMMATIVE ASSESSMENT-II, CLASS-VII MATHEMATICS

2015-16

	-2.30 HRS MAX. MARKS-60 ral instruction;
(a)	Attempt all questions
(b)	The question no.1-8 carry 1mark each.
(c)	The question no.9-14 carry 2 marks each
(d)	The question no.15-20 carry 3marks each
(e)	The question no. 21-23 carry 4 marks each
(f)	The question no.24 (OTBA) carry 10 marks
	SECTION-A
1.	Two line segments are congruent if
2.	When we write LA=LB we actually mean
3.	One half of the sum of numbers x and y
4.	Sum of numbers a and b subtracted from their product
5.	What other name can you give to the line of symmetry of a circle?
6.	Name any two figures that have both line symmetry and rotational symmetry.
7.	Solid shapes are ofdimensions
8.	The corners of a solid shape are called its
	SECTION B
9.	Show that in an isosceles triangle, angles opposite to equal sides are equal.
10.	In a computer lab, there are 3 computers for every 6 students. How many computers will be needed for 24 students?

Find the whole quantity if 8% of it is 40 liters

Which is greater in the following, 2/3, 5/2?

11.

12.

- 13. Find the sum -9/10+22/15
- 14. Write the following rational numbers in ascending order -3/5, -2/5, -1/5

SECTION-C

- 15. In a city 30% are females, 40% are males and remaining are children. What percent are children?
- 16. Find the value of $-1/8 \div 3/4$
- 17. The perimeter of a rectangular sheet is 100 cm if the length is 35 cm, find its breadth, Also the area of the sheet.
- 18. If the circumference of a circular sheet is 154 m, find its radius. Also find the area of the sheet (Take π =22/7)
- 19. What should be added to $x^2 + xy + y^2$ to obtain $2x^2 + 3xy$?
- 20. If a=2, b=-2 find the value of a^2+ab+b^2 .

SECTION - D

- 21. I buy a T.V for Rs10000 and sell it at a profit of 20%. How much money do I get for it?
- 22. Find the cost of polishing a circular table top of a diameter 1.6 m if the rate of polishing is $Rs15/m^2$ (Take $\pi = 3.14$).
- 23. If △DEF≡△BCA write the parts of triangle BCA that correspond to
 - a) angle E.
- b) EF.
- c) angle F.
- d) DF.

OTBA

THEME - NUTRITION

Answer the following questions on the basis of Abstract and data given:

1.	What is modern nutrition?	2
2.	How many items on Mc Donald's entire menu containing no sugar?	1
3.	Give the daily recommended target intake by the age of children	en 1-3
	years.	1
4.	Create a bar graph to represent any five whole grains nutrition fact	s in the
	form of protein based on the given chart.	3
5.	Mark a bar graph to represent any five fruit nutrition facts in the	form of
	iron percentage based on the given chart. 3	
	OR	
	THEME - BMI	
Answ	rer the following questions on the basis of Abstract and data given:	
	1. What is BMI?	2
	2. Write the ideal weight of a man and a woman for the height of 16	35 cm
	on the facts based on the given chart.	2
	3. Given the BMI ranges for adults of weight status :-	

Under weight, overweight, normal or healthy weight and obese

4. What are 6 main health consequences of obesity for adults?

3

3

MARKING SCHEME

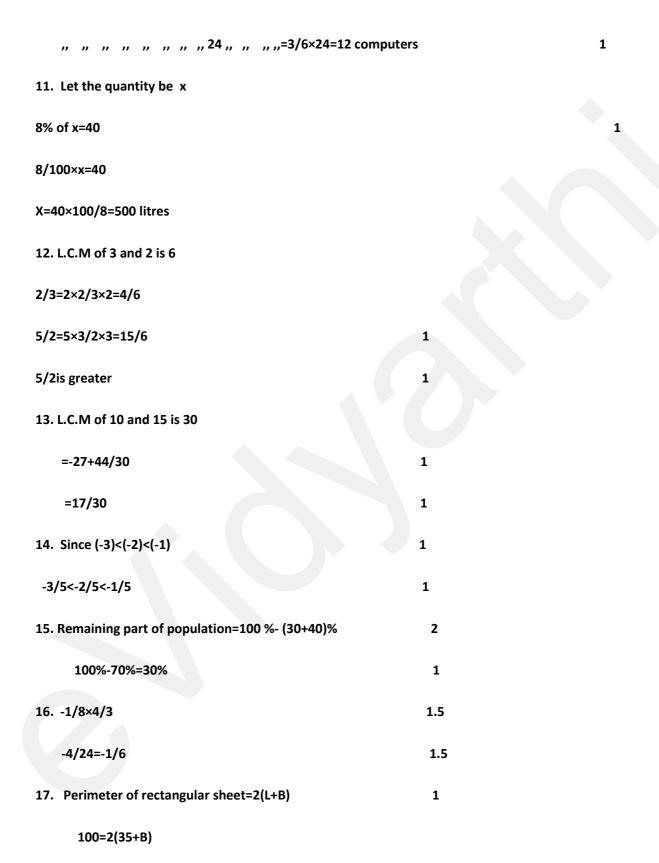
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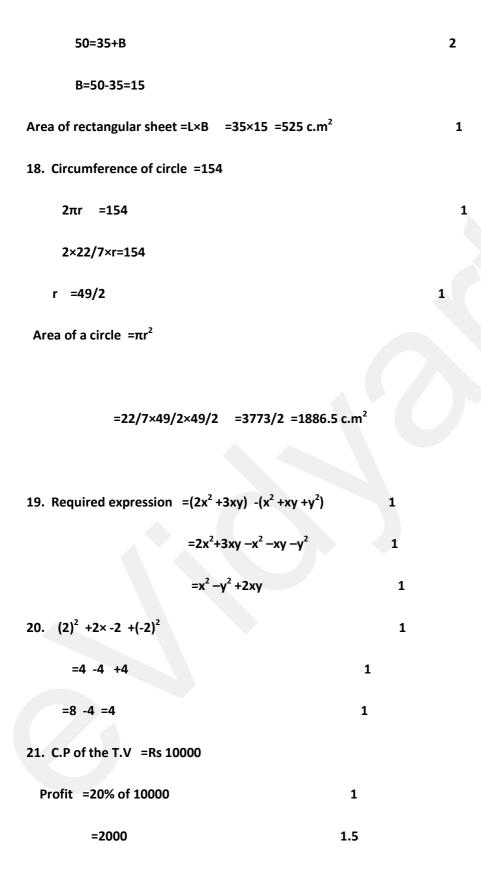
CLASS-VII

MATHEMATICS

1. They have the same length	1
2. m <a=m<b< td=""><td>1</td></a=m<b<>	1
3. 1/2(x+y)	1
4. ab-(a+b)	1
5. Diameter	1
6. Equilateral triangle, Circle	1
7. Three	1
8. Vertices	1
9. Construction Draw the bisector AD of <a bc="" d<="" in="" meeting="" td=""><td>1/2</td>	1/2
AB = AC (given)	
<bad (by="" <cad="" =="" cons)<="" td=""><td></td></bad>	
AD = AD (common)	1
From S.A.S ΔABD≡ΔACD	
<b=<c< td=""><td>1/2</td></b=<c<>	1/2
10. Numbers of computers for 6 students=3	

1





S.P = C.P + Profit

10000 +2000 =12000

1.5

22. Radius =D/2

Area of circular table top $=\pi r^2$

1

 $=3.14 \times (1.6/2)^2$

1

=1.57×0.8×1.6 m²

1

Cost of polishing =15× 1.57×0.8×1.6

=Rs30.144

1

23. a) <E=<C b) EF =AC C)<F =<A d)DF =AB

24. Theme – Nutrition

- 1. Modern nutrition research has moved on to concepts of functional foods, molecular nutrition and nutritional based health.
- 2. 7 items
- 3. 24 gms
- 4. Create a bar graph by taking 5 fruits on horizontal axis and percentage of protein facts present in that fruits on vertical axis.
- 5. Make a bar graph by taking any 5 whole grains on x-axis and percentage of iron facts on y-axIS

OR

Theme - BMI

- 1. BMI is a person's weight in kilograms divided by the square of height in metres.
- 2. Man's weight = 59 72 kg and woman's weight = 53 70 kg
- 3. Following is the BMI of adults of various weight status:

Underweight Below 18.5
Overweight 18.5-24.9
Normal/healthy weight 25.0-29.9

- 4. 6 man consequences are:
 - a. High blood pressure
 - b. Type 2 diabetes

1

- c. Coronary heart disease
- d. Stroke
- e. Gallbladder disease
- f. osteoarthritis