INTERNATIONAL INDIAN SCHOOL-DAMMAM

SUMMATIVE ASSESSMENT - II- MARCH 2013

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INTERNATIONAL INDIAN SCHOOL-DAMMAM SUMMATIVE ASSESSMENT - II- MARCH 2013 Class : VII Time : 3 Hrs.										
Class : VII Subject : Mathematics		SET-B		Time : 3 Hrs Max.Marks : 90	133					
Instructions:		021 0			1					
(b) Section (c) Section (d) Section (e) Section	ot all questions. A: Questions 1-8 B: Questions 9-14 C: Questions 15-24 D: Questions 25-3 choice is given in S	carry 2 marks ea 4 carry 3 marks 6 4 carry 4 marks	ach. each. each.							
	SECTION -A				(1 x 8)					
(Choose the correc	t answers from	the choices g	iven belov	w) _						
1. The perpendicular lin	ne segment from	n a vertex of a	a triangle	to its opposite side	e is					
a) hypotenuse	b) altitude	c) median	d) leg							
2. When a die is thrown	, the probability	of getting a p	prime nun	nber is						
a) 2/3	b) 1/2	c) 1/3	d) 0							
3. Numerical coefficient of x in $2x^2-5x+6$ is										
a) -2	b) 2	c) 5	d) -5	•						
4. Two angles of a trian	gle are equal an	d the third an	gle is 86°	, then one of the a	ingle is					
a) 94°	b) 47°	c) 42°	d) 43°							
5.The standard form of	6726.5 is									
a) 6.7265 x 10 ³	b) 6.7265 x10	⁻³ c) 6.7265	x 10 ⁴ d)	6.7265 x 10 ⁻⁴						
6.The equation correspo	onding to the st	atement the s	sum of 5 t	mes a number an	d 2 is 60					
a) 5x+2=60	b) 5-2x =60	c) 5x-2=60	O d) 2x+	5=60						
7. Circumference of a se	emicircle with ra	idius r is								
a) 2 π r	b) πr	c) r ²	d) 2r+ π r						
8. If <d=<m <f="<F</td" and=""><td>, then to prove</td><td>Δ DEF \cong Δ M</td><td>INP by AS</td><td>A congruence rule</td><td>, the</td></d=<m>	, then to prove	Δ DEF \cong Δ M	INP by AS	A congruence rule	, the					
addional information	needed is									

c) DF=MP

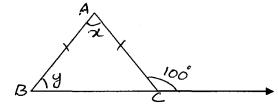
d) DE=MN

b) EF=NP

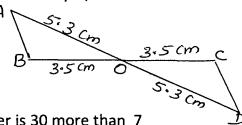
a) MN=DF

9. Find the arithmetic mean of the data:

- 10. Write exponential form for $9 \times 9 \times 9 \times 9$ taking base as 3
- 11. From the figure: find angles x and y



12. In figure ,Is $\triangle OAB \cong \triangle ODC$ by sas congruence condition? If yes, state the three facts to support your answer.



- 13. Find the number such that one fourth of the number is 30 more than 7
- 14. The circumference of a circle is 31.4 cm. Find the radius and area of the circle .

(Take
$$\pi = 3.14$$
)

OR

A circle of radius 2 cm is cut from a square piece of an aluminium sheet of side 6 cm. What is the area of the left over aluminium sheet ?(Take π =3.14)

SECTION C

 (3×10)

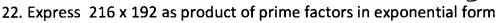
- 15. Solve: 15 3(x+1) = 6
- 16. Find the range, median and mode of 17, 26, 24, 12, 30, 18, 14, 20, 12
- 17. A ladder 25 m long reaches a window of a building 20m above the ground. Determine the distance of the foot of the ladder from the building.
- 18. A wire is in the shape of a rectangle. Its length 6cm 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 encloses more area?
- 19.Write the terms and factors of $-xy+ 2x^2- 3y^2$ by tree diagram OR

What should be the value of k if $-2 x^2 + 5 x + k$ is -3 when x = -1

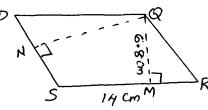
20. Find the value of (i) $(6^0 \div 7^0)^2 + (8^0 - 7^0)^2$

(ii)
$$(-3)^2 \times (-2)^3 \times (-1)^2 \times 2^0$$

- Student Bounty Com 21. In figure, ABC is a triangle in which BD=CE, BD and CE are perpendiculars to AC and AB respectively.
 - (i) state three pairs of equal parts in \triangle CBD and \triangle BCE
 - (ii) Is $\triangle CBD \cong \triangle BCE$?Give reason.



- 23. a) Solve $7m + \frac{19}{3} = 13$
 - b) Construct two equations starting with x = -3
- 24. In fig: PQRS is a parallelogram.QM is the height from Q to SR and QN is the height from Q to PS. If SR=14 cm and QM = 6.8 cm, find
 - a) the area of the parallelogram PQRS
 - b) QN if PS= 8 cm



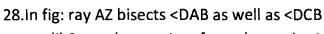
 (4×10)

SECTION D

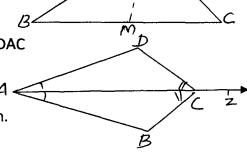
25. Simplify using laws of exponents:

$$\frac{64 \times 3^3 \times 12^2}{6^2 \times 2^3 \times 27}$$

- 26. From the sum of $4 + 3x^2 + 5x$ and $-4x + 2x^2 + 7$, subtract the sum of $-3x^2-5x+2$ and x^2-2x+3
- 27. a) In fig: AM is the median of a triangle ABC. Prove that AB + BC + CA > 2AM
 - b) The lengths of two sides of a triangle are 5 cm and 8 cm. Between which two numbers can length of third side fall?



- (i) State three pairs of equal parts in ΔBAC and ΔDAC
- (ii) Is $\triangle BAC \cong \triangle DAC$? Give reason.
- (iii) Is AB=AD? Why or why not?
- (iv) If <B=100°, find the measure of <D.Give reason.



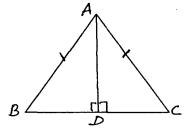
29. The diameter of a car tyre is 70 cm. Find the distance covered by it in 5 rounds. Also find the number of turns required to cover a distance of 1540 m.(Take $\pi = \frac{22}{7}$)

- 30. (i) Arun's father's age is 3 years less than 5 times Arun's age. Find Arun's age , if his father is 47 years old.
 - (ii) Write the equation 2p +5=30 in statement form.

OR

The length of a rectangle is 18 cm more than its breadth. If its perimeter is 84 cm, find the length and breadth

- 31. Through a rectangular field of length 112 m long and breadth 100 m wide ,two roads are constructed which are parallel to the sides and cut each other at right angles through the fields. If the width of each road is 5 m, find
 - (i) area covered by the roads
 - (ii) the cost of constructing the roads at the rate of Rs. 115 per m²
- 32. a) Simplify the expression and find its value when a=3 and b=-2 $2(a^2-ab)+3-ab$
 - b) If p = -10, find the value of $p^3 100$
- 33.In fig: AB=AC and AD is one of its altitudes
 - (i) State three pairs of equal parts in Δ ADB and Δ ADC
 - (ii) Is $\triangle ADB \cong \triangle ADC$? Give reason.
 - (iii) ls < B = < C? Justify your anser.
 - (iv) Is BD=CD? Give reason.



34. The performance of a student in 1 st term and 2nd term is given.

Draw a double bar graph choosing appropriate scale and answer the following:

Subjects	English	Hindi	Maths	Science	S.Science
1 st term(M.M.100)	60	72	88	81	73
2 nd term(M.M.100)	70	65	95	85	75

- (i) In which subject, has the child improved his performance the most?
- (ii) In which subject the performance the least?