# DELHI PUBLIC SCHOOL, CHANDIGARH 

Summative Assessment-II, Session 2013-14<br>Class : VIII, Subject : Maths (Sample Paper)

Time : 3 hours
MM : 90

## General I nstructions:

1) All questions are compulsory.
2) Section A carries 6 marks, one mark for each part.
3) Section B carries 10 marks, one mark for each part.
4) Section C carries 12 marks, two marks for each question.
5) Section D carries 32 marks, four marks for each question.
6) Section E carries 30 marks, five marks for each question.

## Section-A

Q1 Ghoose the oriect option fortholowig:
(i) KL Which of the following quaraptsodothe point ( 2 Lle?
(a)
(b) ب1
(c) $\quad \mathrm{B}$
(d) Cl
 surface arears 20 cm ?
(a) 2 an
(b) 4 cm
(c) 3 cm
(d) 5 cm
$\operatorname{Gin})$


(a) $\frac{1}{16}$
(b) 16
(c) $\frac{-1}{16}$
(d) -16
(iv) $8 a^{2} b^{3} \div(-2 a b)=$ $\qquad$
(a) $4 a b^{2}$
(b) $4 a^{2} b$
(c) $-4 a b^{2}$
(d) $-4 a^{2} b$
(v) $x^{2}-x z+x y-y z=$ $\qquad$
(a) $(x-y)(x+z)$
(b) $(x-y)(x-z)$
(c) $\quad(x+y)(x-z)$
(d) $(x-y)(z-x)$
(vi) The equation representing the $y$-axis is $\qquad$
(a) $x=0$
(b) $y=0$
(c) $\quad x=a$
(d) $y=a$

## Section B

Q. 2 Fill in the blanks.
(i) $1 \mathrm{~m}^{2}=$ $\qquad$ $\mathrm{cm}^{2}$
(ii) The circumference of a circle whose radius is ' $r$ ' is given by $\qquad$
(iii) $\left(\frac{-2}{3}\right)^{-3}=$ $\qquad$
(iv) $a^{m} \div a^{n}=$ $\qquad$
(v) $2 a^{3}(3 a+5 b)=$ $\qquad$
(vi) $\quad\left(7^{0}-6^{0}+3^{0}\right)^{-2}=$ $\qquad$
(vii) Common factors of $3 x^{3} y^{3}, 6 x^{3} y^{2}, 9 x^{2} y^{2} z$ are $\qquad$
(viii) If two quantities are linked in such a way that an increase in one quantity leads to a corresponding increase in the other and vice-versa, then such a variation is called $\qquad$ variation.
(ix) The ordinate of the point (4,-1) is $\qquad$
(X) 世 other athe point O, knownas $\qquad$

## Section C

 height is 60 cm :

Q. 5 LULte $3.25 \times 10$ ththe usualtone

Q. 7 UUse suitabe etentetty to find $(x y+3 z)^{2}$


## Section-D

Q. 9 The floor of a building consists of 3000 tiles which are rhombus shaped and each of its diagonals are 45 cm and 30 cm in length. Find the total cost of polishing the floor, if the cost per $\mathrm{m}^{2}$ is ` 4.
Q. 10 Factorise
a) $y^{2}-10 y+21$
b) $(2 x-3 y)(a+b)+(3 x-2 y)(a+b)$
Q. 111000 soldiers in a fort had enough food for 20 days. But some soldiers were transferred to another fort and the food lasted for 25 days. How many soldiers were transferred?
Q. 12 If $x=\left(\frac{4}{5}\right)^{-2} \div\left(\frac{4}{5}\right)^{-3}$, find the value of $x^{-1}$.
Q. 13 Show that $(9 a-5 b)^{2}+180 a b=(9 a+5 b)^{2}$.
Q. 14 Subtract the sum of $31-4 m-7 n^{2}$ and $2 l+3 m-4 n^{2}$ from the sum of $91+2 m-3 n^{2}$ and $-31+m+4 n^{2}$.
Q. 15 Factorise: $(x-z)^{4}-x^{4}$.
Q. 16 If each edge of a cube is doubled
a) How many times will its surface area increases?
b) How many times will its volume increases?

## Section - E

Q. 17 Four persons could fit new windows in a house in 6 days.
a) Two of the persons fell ill before the work started. How long would the job take now?
b) How many persons would be needed to fit the windows in 2 days?
Q. 18 Using identities, evaluate
atب196<102
0 , بL $299^{2}$
Q. 19 - tacorise the onenexpression and divide then as ofrected

$$
\left.39 y^{3}(50 \mathrm{y} \text { 人 } 98) \div 26 y \text { (5 }+7\right)
$$

Q. 20 . Draw the graphoflige $3 x=y$



b) Theomensons of a cubodoremthe ratio 5:3:1 and itstotalutace areats 4 Am स H d the dimensions:

