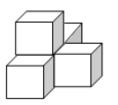


ANANDALAYA PERIODIC TEST – 3 Class-VIII

 General Instructions: 1. All questions are compulsory. 2. This question paper contains 22 questions. 3. Questions 1 – 7 in Section A are very short-answer type questions carrying 1 mark each. 4. Questions 8 – 13 in Section B are short-answer type questions carrying 2 marks each. 5. Questions 14 – 18 in Section C are short -answer type questions carrying 3 marks each. 6. Questions 19 – 22 in Section D are long-answer type questions carrying 4 marks each. 		
1.	SECTION-A Find the product of: a^3 , $-6a^2b$ and $2b^3$	(1)
2.	Find the area of a parallelogram whose base is 8m and the height is 3m.	(1)
3.	Find the value of $(-3)^{-4}$.	(1)
4.	What should be added to the sum of $x^2 + 2x + 3$ and $2x^2 + x + 3$ to get 0?	(1)
5.	How many faces and vertices a triangular prism has?	(1)
6.	Express the following numbers in standard form: a) 0.00000367 b) 670000000	(1)
7.	Water is pouring in a cuboidal reservoir at the rate of 50 litre per minute. If the volume of the reservoir is 500 litre, find the time it will take to fill the reservoir.	(1)
8.	SECTION-B A dealer purchased an old refrigerator for ` 3500. He spent ` 1000 on its repair and sold it at	(2)
	a profit of 12%. What was the selling price of the refrigerator?	
9.	Simplify: (x - y)(x + y) + (y - z)(y + z) + (z - x)(z + x)	(2)
10.	A wire is bent into the form of a square of side 27.5cm. The wire is straightened and bent into the form of a circle. What will be the radius of the circle so formed?	(2)
11.	If $5^{2x + 1} \div 25 = 125$, find x.	(2)
10		$\langle \mathbf{O} \rangle$

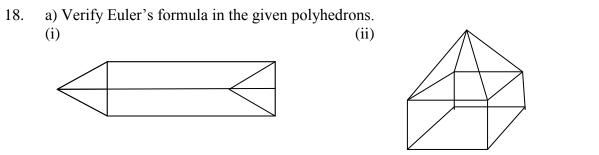
- 12. By selling a basket for ` 19.50, a shopkeeper gain 30%. For how much should he sell it to (2) gain 40%?
- 13. Draw the top and the side views of the given solid object:



(2)

SECTION-C

- 14. Mr. Shastri borrowed a sum of ` 4000 from Mr. Jacob at the rate of 10% p.a. under simple (3)interest. Immediately Mr. Shastri gave the money to Mr. Joshi at the same rate under compound interest compounded half yearly. Find the profit of Mr. Shastri in doing so after one year.
- 15. Using identities evaluate:
 - a) (10.2) x (9.8)
 - b) 102 x 101
- 16. Earth is dug out to a depth of 15m from a circular plot of land of radius 7m. The earth is then (3)spread out evenly on an adjacent rectangular plot of dimensions 11m x 7m. Find the height of the earth on the rectangular plot.
- Neha borrowed ` 24000 from a bank to buy a scooter. If the rate of interest is 10% p.a. 17. (3)compounded annually, what payment will she have to make after 2 years 3 months?



b) A polyhedron has 20 faces and 12 vertices. How many edges does this polyhedron have?

SECTION-D

19. a) What sum will become ` 5408 after 2 years at 4% per annum, when the interest is (4)compounded annually?

b) What sum will become ` 44100 in 1 year at the rate of 10 % per annum, when the interest is compounded half yearly?

- 20. Using suitable identities multiply the following:
 - a) (2a 5b)(2a 5b)
 - b) (b-2)(b-4)
 - c) (p + 4q) (p + 4q)

d)
$$(x^2 + 4) (x^2 - 4)$$

a) Find the area of the trapezium, if its parallel sides are 5cm and 7cm long and the distance 21. (4)between them is 9cm.

b) Find the area of a rhombus, each side of which measures 20 cm and one of the diagonals is 24cm.

22. Simplify the following: (4)a) $(2^{-1} \div 5^{-1})^2 \times \left(\frac{-5}{8}\right)^{-1}$.

b)
$$\frac{p^{-4} \times q^3 \times r^{-2} \times s^6}{r^3 \times p^{-1} \times s^0 \times q^{-2}}$$

(3)

(3)

(4)