NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH



(PEEVEES GROUP OF SCHOOLS, K.S.A.) Affiliated to CBSE - New Delhi. SUMMATIVE ASSESSMENT-II(2016 -2017)

Subject: Mathematics

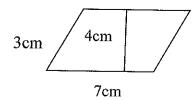
Date: 07.03.2017	Set:A	Time: 2 Hours 30 Min	
lass. 8 Sac.		Max. Marks:90	
Name:		Roll No. :	

Instructions to the Candidates:

- All Questions are compulsory.
- The question paper consists of 39 questions divided into four sections A,B,C and D. Section-A comprises of 10 questions of 1 mark each, Section-B comprises of 12 questions of 2 marks each, Section-C comprises of 12 questions of 3 marks each and Section-D comprises of 5 questions of 4 marks each.
- There is no overall choice.

SECTION-A

- 1. Which is a factor of $4x^2y + xy$ from the following?
 - A) $4x^2y$
- B) xy
- C) 4
- D)2xy
- 2. If 'a' and 'b' are the lengths of opposite parallel sides of a trapezium and 'h' is the distance between the parallel lines, then its area is
 - A) $\frac{1}{2}$ (a+b) B) $\frac{1}{2}$ ab
- C) $\frac{1}{2}$ (a+b)h D) $\frac{1}{2}$ h(a-b)
- 3. What is the area of the following parallelogram?



- A) 14cm^2
- B) 28cm²
- $C) 21 cm^2$
- $D)12cm^2$

4. What is the lateral surface area of a cube of side 'a'cm?

A) $2a^2 \text{ cm}^2$ B) $6a^2 \text{ cm}^2$ C) $4a^2 \text{ cm}^2$ D) $a^2 \text{ cm}^2$

5. If the base area of a cylinder is 35 m² and its height is 6m, then its volume is ...m²

A) 100

B) 200

C) 230

D)210

6. What is the side of a cube with volume 125 cm²?

4cm

B) 5cm

C) 6cm

D) 7cm

7. The value of $(2^0 + 3^0)^0$ is

A)2

B) 1

C) 0

D)5

8. The standard form of 230000000 is

A) 23×10^8 B) 2.3×10^8 C) 23×10^7

D) 2.3×10^7

9. If 'x' is directly proportional to 'y', then $x = \dots (consider 'k')$ as constant).

A) ky

B) xy

C)k/y

D) y/k

10. The coordinates of the origin in a coordinate plane are....

A)(0,0)

B) (1,0)

C)(0,1)

D) (-1,0)

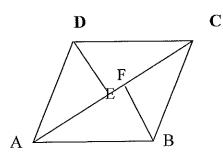
SECTION-B

11. Factorise: $x^2 + 7x + 12$

12. Factorise: $x^2 - 81$

13. What is the area of a rhombus whose diagonals are of lengths 12cm and 8.5cm?

14. Find the area of the quadrilateral ABCD. AC= 12cm, DE= 5cm, BF= 4, DE AC and $BF^{\perp}AC$.



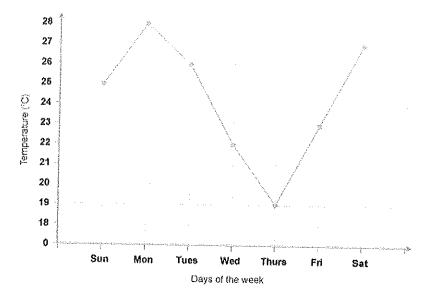
15. A drum has a diameter of 70cm and depth 210 cm. Find the surface area of the drum.

16. Find the volume of a rectangular prism with height 12cm, length 9.5 cm and breadth 5cm.

17. Find the volume of a cylinder of radius 2.1m and height 35cm.

18. Simplify: $(\frac{1}{4})^{-3} \times (\frac{1}{2})^{-2} - 3^3$

- 19. Rampochi spends Rs.2640 in 6 days, how much he will spend in the month of April?
- 20. A Truck travels 800 km in 10 hours . If the truck travels at the same speed , what distance will it cover in 13 hours?
- 21. The line graph represents the temperature of days in a week.



- A) When is the hottest the day of the week?
- B) What is the temperature on Wednesday?
- 22. Plot the following points on a graph sheet.

$$A(-2,5)$$
 and $B(2,-7)$

SECTION-C

23. Factorise the expression.

$$x^2 + x - 56$$

24. Using appropriate identities to factorise:

$$x^2 + 14x + 49$$

- 25. A park of radius 70 cm has a circular fountain of radius 17.5 cm. Calculate the total walking area available to people visiting the park.
- 26. The area of a trapezium is 240 cm² and the length of one of the parallel side is 18 cm and the height is 20 cm. Find the length of other parallel side.
- 27. A company is deciding which box to use for their merchandise. Box A measures 8cm x 7cm x 5cm. Box B measures 9cm x 6cm x 5cm. Which box requires more material to make?

- 28. Find the height of the cylinder if its volume is 1848 m³ and the radius of its base is 7m.
- 29. Express the following in usual form.

A)
$$3.45 \times 10^4$$
 B) 2.4×10^{-6}

30. Find the value of 'x'.

$$2^{2x} \times 8 = 128$$

- 31. 120 men had food provision for 180 days.30 men die due to an epidemic. How long will the foods last?
- 32. A road map with a scale of 1 cm representing 36 km. When you drive on a road for 144 km. What would be the distance covered by you in the map?
- 33. Plot the following points on a graph paper and find the area of the enclosed figure. A(1,1) B(5,1)C(5,6) and D(1,6)
- 34. Write the quadrant/axis of the following points lie.
 - A. (1,6) B. (0,5) C. (-2,-4) D. (2,0) E. (6,-2) F. (-2,3)

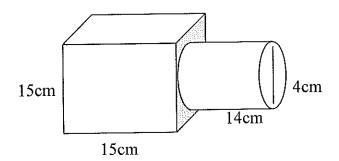
SECTION-D

35. Factorise:

A)
$$(a-2b)^2 + a-2b$$

B) $y^2 + 3xy + 3y + 9x$

- 36. Milk powder comes in a cylindrical container whose height is 20cm and base has a diameter of 14cm. the company places a label around the lateral surface of the container. If the label placed leaving a margin of 2cm from the top and bottom what is the area of the label. Find also volume of the a milk powder container.
- 37. Find the volume of the given shape.



38.Shan wants to deposit Rs 20000 in a bank at the rate of 10% per annum. Draw a linear graph showing the time and simple interest relationship.

39. Represent the following on a graph sheet.

Х	1	2	3	4	5
У	1	4	9	16	25

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