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Previous Year Paper

Mathematics - 2014

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Multiple Choice Questions

1. In the textbook of Mathematics the content should be developed

A. in the order of exercise
B. in logical order
C. in problematic order
D. All of the above

[Answer](#)

2. When 73^2 is subtracted from the square of a number, the answer that is obtained is 5280. What is the number?

A. 97
B. 103
C. 99
D. 101

[Answer](#)

3. find the value of $1.44 \times 0.81 \div 0.9 \times 3.6 = ?$

A. 0.6
B. 0.5
C. 1
D. 0.75

[Answer](#)

4. Which of the following numbers is divisible by both 4 and 9 ?

A. 2368
B. 2736
C. 3954
D. 3814

[Answer](#)

5. What should be added to 51234, to make it divisible by 9 ?

A. 6
B. 4
C. 3
D. 5

[Answer](#)

6. The ratio of the length of a rectangle to its perimeter is $\frac{1}{6}$. Find its area.

B. 200 sq cm

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C. 300 sq cm

D. 205 sq cm

Answer

7. Find the square root of 1234567654321.

A. 1121121

B. 111111

C. 1112111

D. 1111111

Answer

8. On decreasing the radius of a sphere by 20%, by what per cent its volume will be decreased?

A. 20

B. 28.8

C. 57.6

D. 48.8

Answer

9. If the area of a circle is A, radius of circle is r and circumference of it is C, the

A. $rC = 2A$

B. $CA = r^2$

C. $AC = r^2$

D. $Ar = C$

Answer

10. A number when tripled and decreased by 15 we get the result as 120. Find the number

A. 45

B. 40

C. 42

D. 50

Answer

11. Three solid spheres of radii 3 cm, 4 cm and 5 cm respectively are melted and made a large solid sphere. Radius of this sphere

A. 12

B. 10

C. 6

D. 4

Answer

12. How many lines of symmetry does a Rhombus have?

A. 1

B. 2

Answer

13. What is the area of an equilateral triangle of side 16 cm?

- A. 483 sq.cm
- B. 1283 sq cm
- C. 963 sq cm
- D. 643 sq cm

Answer

14. Find the median of the data

10, 8, 5, 3, 9, 6, 12, 14, 13, 7, 1

- A. 8
- B. 10
- C. 9
- D. 14

Answer

15. The remainder obtained when 4^{96} is divided by 6 is

- A. 3
- B. 4
- C. 5
- D. 6

Answer

16. For what value of k, the points A(3, 4), B (5, k) and C (- 3, 1) are collinear ?

- A. 2
- B. 3
- C. 4
- D. 5

Answer

17. $356 + 617 - 213 - 112 = ?$

- A. 617
- B. 6121
- C. 6528
- D. 6114

Answer

18. $5 + 15 + 15 + 15 + \dots$

- A. 112
- B. $29 + 12$
- C. $13 + 12$
- D. $29 + 52$

Answer

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A. 4

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C. 8

D. 17

Answer

20. What value should come in place of question mark ?

$$(1.06 + 0.04)^2 - ? = 4 \times 1.06 \times 0.04$$

A. 1.0404

B. 1.4

C. 1.5

D. 1.45

Answer

21. Sum of first 20 terms of the Arithmetic Progression (AP) 11, 7, 3, ... is

A. 20

B. - 540

C. 980

D. - 65

Answer

22. If $x : y = 3 : 4$, then find the value of $2x + 3y$

A. 925

B. 1825

C. 718

D. 1725

Answer

23. If a card is drawn from a pack of cards, what is the probability of getting a black coloured card?

A. 13

B. 12

C. 34

D. 38

Answer

24. To establish which type of correlation a mathematics teacher must have, versatile knowledge of basic elements of different subjects?

A. Incidental correlation

B. Systematic correlation

C. Both (1) and (2)

D. None of these

Answer

25. A bag contains 5 red, 4 white, 3 black and 2 green balls. Find the probability of drawing a red ball.

A. 16

B. 56, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

C. 58

D. 12

Answer

26. $0.46 \times 0.46 + 0.54 \times 0.54 + 0.92 \times 0.54 = ?$

A. 1

B. 10

C. 11

D. 0.12

Answer

27. What will come in place of question mark (?)

$$17.28 \div ?3.6 \times 0.2 = 2$$

A. 120

B. 1.2

C. 12

D. 0.12

Answer

28. If the price of an item A is 25% less than that of the item B. How much per cent is the price of B more than that of A ?

A. 50

B. 3313

C. 1623

D. 25

Answer

29. The expression $x^2 - 2xy + y^2 - x + y$ has one factor which is

A. $x - y = 1$

B. $x + y = 1$

C. $x - y - 1$

D. $x + y + 1$

Answer

30. Bhaskara's book 'Leelavati' was translated into English by

A. James taylor

B. Mark taylor

C. A.I. Bahlam

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