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## Previous Year Paper

Mathematics - 2016

## : $\equiv$ Multiple Choice Questions

1. The diagonals $A C$ and $B D$ of a parallelogram $A B C D$ interest each other at the point 0 . If $\angle D A C=$ $32^{\circ}, \angle A O B=70^{\circ}$, then $\angle D B C$ is equal to
A. $24^{\circ}$
B. $86^{0}$
C. $38{ }^{\circ}$
D. $32^{0}$

Answer
2. It is proposed to build a single circular park equal in area to the sum of areas of two circular parks of diameters 16 m and 12 m . The radius of the new park would be
A. 10 m
B. 15 m
C. 20 m
D. 24 m

Answer
3. An edge of a cube measures rcm . If the largest possible right circular cone is cut out of this cube, then the volume of the cone (in $\mathrm{cm}^{3}$ ) is
A. $16 \pi r 3$
B. $112 \pi r 3$
C. $13 \pi r 3$
D. $23 \pi r 3$

Answer
4. If $13^{50}$ is divided by 14 , the remainder is
A. 13
B. 12
C. 1
D. -1

Answer
5. Factors of $x 2+32 x+4$ are
A. $x+22 x-2$
B. $x+22 x+2$ then Study, Assignmentsensolved Previous Year Papers. Questions and Answers. Free Forever.
A. 618 sq.cm
B. $1224 \mathrm{sq} . \mathrm{cm}$
C. 2448 sq.cm
D. $1242 \mathrm{sq} . \mathrm{cm}$

Answer
7. The distance of the point $(-7,-2)$ from $Y$-axis is
A. 9 unit
B. 51 unit
C. 7 unit
D. 2 unit

Answer
8. solid cylinder has total surface area of $462 \mathrm{sq} . \mathrm{cm}$. If its curved surface area is one-third of its total surface area, then the volume of the cylinder will be
A. $639 \mathrm{~cm}^{3}$
B. $539 \mathrm{~cm}^{3}$
C. $439 \mathrm{~cm}^{3}$
D. $600 \mathrm{~cm}^{3}$

Answer
9. A rectangular piece of paper $11 \mathrm{~cm} \times 4 \mathrm{~cm}$ is folded without overlapping to make a cylinder of height 4 cm , then the volume of the cylinder will be
A. $37.5 \mathrm{~cm}^{3}$
B. $38.5 \mathrm{~cm}^{3}$
C. $35.8 \mathrm{~cm}^{3}$
D. $28.5 \mathrm{~cm}^{3}$

Answer
10. As per national curriculum framework 2005, the sequence of Mathematics
A. Before language
B. After language
C. After science
D. After social science

Answer
11. Inductive method of teaching Mathematics we proceed from
A. Abstract to concrete
B. General to specific

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12. In a pair of adjacent angles (i) Vertex is always common, (ii) one arm is always common and (iii) uncommon arms are always opposite rays. Then
A. (ii) is false
B. (iii) is false
C. All (i), (ii) and (iii) are true
D. (i) is false, but (ii) and (iii) are true Answer
13. If area of an eq lateral triangle is 'a' having height ' $b$ ', then $b 2 a$ is
A. 13
B. 13
C. 3
D. 3

Answer
14. A horse is tethered to a stake by a rope of 30 m long. If the horse moves along the circumference of a circle keeping rope tight, find that how far the horse have gone from initial point if the rope has traced an angle of $105^{\circ}$ at the centre ?
A. 55 m
B. 5.5 m
C. 155 m
D. 25 m Answer
15. The sum of two natural numbers is 8 . Determine the numbers if the sum of their reciprocals is 815
A. 3, 5
B. 6,2
C. 4,4
D. None of these Answer
16. The ratio of two numbers is $5: 6$ and their HCF is 12 . Their LCM is
A. 60
B. 72
C. 180
D. 360

Answer
17. The value of $5813+2713314$ is

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Answer
18. The price of petrol increased by $25 \%$. In order that expenses on petrol should not increase, one must reduce travel
A. $25 \%$
B. $20 \%$
C. $18 \%$
D. $15 \%$

Answer
19. If $x=3+8$, then value of $x 3+1 x 3$ is
A. 216
B. 198
C. 192
D. 261

Answer
20. If each exterior angle of a regular polygon is $18^{\circ}$, then the number of sides of the polygon is
A. 10
B. 15
C. 20
D. 30

Answer
21. The graphs of lines $x+2 y-3=0$ and $2 x+4 y+11=0$
A. intersect at each other
B. coincide with each other
C. are parallel to one another
D. are perpendicular to each other

Answer
22. There are 10 persons in a party. If each one of them shakes hand with others exactly once. The total number of handshakes is
A. 105
B. 55
C. 45
D. None of these

Answer
23. A man and his wife appear for an interview for two posts. The probability of husband's selection
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D. 15

Answer
24. $5 n+3-6 \times 5 n+19 \times 5 n-22 \times 5 n$ is
A. 91
B. 19
C. 10
D. 1

Answer
25. $59+45-9-45=$ ?
A. 12
B. 13
C. 15
D. 14

Answer
26. A man buys two books at Rs 410 and sells both at same price. One gives him a profit of $15 \%$ and another a loss of $10 \%$. The cost price of both book is
A. 110, 260
B. 120,290
C. 180,230
D. None of these

Answer
27. Which of the following statement is true ?
A. $1212>1313$
B. $1212<1313$
C. $1212=1313$
D. None of these

Answer
28. Out of 12 observations arranged in ascending order, the sixth and seventh observations are 14 and 15 respectively. Find the median of all the 12 observations.
A. 29
B. 14.5
C. 15
D. None of these

Answer
29. Find the least number of square tiles required to pave the floor of a room 15 m 17 cm long and 9

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## Answer

30. A motor boat whose speed is $15 \mathrm{~km} / \mathrm{h}$ in still water goes 36 km upstream and comes back to the starting point in 5 hours. Find the speed of the stream
A. $5 \mathrm{~km} / \mathrm{h}$
B. $10 \mathrm{k} / \mathrm{h}$
C. Cant determine
D. $3 \mathrm{~km} / \mathrm{h}$

Answer

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