

Question Paper

No. of Questions: 20

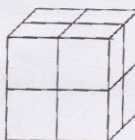
Marks for each correct Answer: 4

Time: 40 Minutes

1. What will be the total surface area of this larger cube?

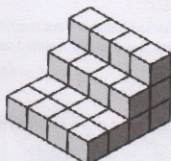


The cube shown above has a volume of 8 cm^3 . Eight such cubes were joined to form a larger cube shown here.



- a. 96 cm^2 b. 64 cm^2 c. 16 cm^2 d. 24 cm^2

2. How many more unit cubes should be added to make this into a $4 \times 4 \times 4$ cube?

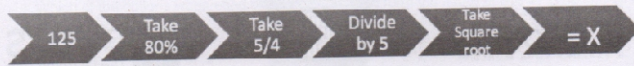


- a. 20
b. 28
c. 36
d. 48

3. Joe purchased 20 apples from a supermarket for 180 rupees at a discount of 10 percent. How much will a dozen apples cost him if he does not avail any discount?

- a. 108 b. 120 c. 132 d. 144

4. Find X in



- a. 5 b. 8 c. 15 d. 21

5. Complete the figure given below by choosing the most appropriate option.



- a.



- b.



- C.



- d.



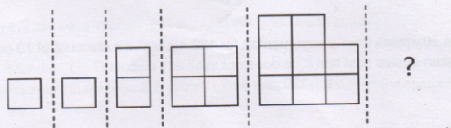
6. If a lemon of radius r is divided into four identical parts, then what would be the total surface area of the four parts? (Given Area of a sphere = $4\pi r^2$)

- a. $2\pi r^2$ b. $4\pi r^2$ c. $6\pi r^2$ d. $8\pi r^2$

7. Emma, who is Joe's daughter, says to Monica, "Your mother Rachel is the younger sister of my father, who is the third child of Sam". How is Sam related to Monica?

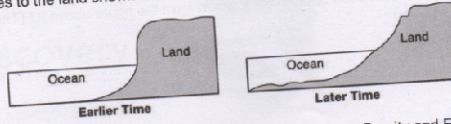
- a. Grandfather
b. Father-in-law
c. Father
d. Grandfather

8. How many squares will make up the figure in the resulting pattern to replace the question mark below?



- a. 9 b. 12 c. 16 d. 20

9. The changes to the land shown in the diagram were most likely caused by



- a. Erosion and Magnetism
- b. Erosion and Deposition
- c. Gravity and Evaporation
- d. Gravity and Condensation

10. Find the missing number in the series given below –

6, 12, 20, 30, 42, ?

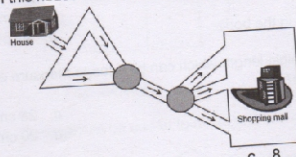
- a. 50
- b. 52
- c. 54
- d. 56

11. Find the missing number in the series given below.

1, 1, 2, 3, 5, 8, ?, 21

- a. 10
- b. 11
- c. 12
- d. 13

12. Pikachu wants to go from this house to the shopping mall, how many routes can he take?



- a. 12
- b. 7
- c. 8
- d. 6

13. Which one will you choose in order to have more pizza?



One 18 inches pizza

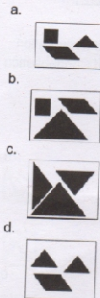


Two 12-inches pizza



- a. One 18 inches pizza
- b. Two 12-inches pizza
- c. Both are the same
- d. Cannot say

14. Which of the options when used appropriately would form the figure above it? (The figures in the options can be rotated)



15. Which of the following is not an example of combustion?
- Burning of coal
 - Digestion of food in the body
 - Burning of fuel in a car engine
 - All of these
16. What is the greatest possible length which can be used to measure exactly the lengths 8 m, 4m 20 cm and 12 m 20 cm?
- 10 cm
 - 30 cm
 - 25 cm
 - 20 cm
17. Which of the organs in digestive system does not contribute to chemical digestion?
- Mouth
 - Stomach
 - Esophagus
 - Small Intestine
18. Which of the following is a renewable source of energy?
- Solar Energy
 - Hydel Energy
 - Wind Energy
 - All of the above
19. January 1, 2004 was a Thursday, what day of the week lies on January 1 2005.
- Saturday
 - Monday
 - Sunday
 - Tuesday
20. Two numbers are in the ratio 2: 3. If their L.C.M. is 48. what is sum of the numbers?
- 78
 - 40
 - 64
 - 42