

SECOND SUMMATIVE ASSESSMENT : 2011-12

Subject : **MATHEMATICS**

Time : **3 hrs.**

Class : **VIIIth**

M.M. : **90**

General instructions :

- (i) All questions are compulsory.
- (ii) In Section-B Q.No. 13 has internal choice.
- (iii) In Section-C Q.No. 17, 21, 23 have internal choice.
- (iv) In Section-D Q.No. 27 and 34 have internal choice.

SECTION-A

(8×1=8)

1. The square root of 64 is –
(a) 4 (b) 6 (c) 8 (d) 36 []
2. The value of 3^3 is –
(a) 9 (b) 27 (c) 6 (d) 30 []
3. The number 27 is divisible by-
(a) 5 (b) 2 (c) 3 (d) 7 []
4. Solve: $x-4= 6$
(a) $x= 3$ (b) $x= 4$ (c) $x=2$ (d) $x= 10$ []
5. Shashi invested Rs. 5000 in a bank for 1 year at end of 1 year she receives Rs. 6000 as the amount. What is the interest she received ?
(a) Rs. 500 (b) Rs. 6000 (c) Rs. 1000 (d) Rs. 500 []
6. The value if x in $5 : 4 :: x : 20$
(a) 25 (b) 20 (c) 30 (d) 10 []
7. The formula of volume of cuboid is :-
(a) $LxLxL$ (b) $LxBxH$ (c) $L+B+H$ (d) $LxBxB$ []
8. How many different outcomes when we toss a one rupee coin :-
(a) 1 (b) 2 (c) 3 (d) 4 []

Cont.....

20. A sum of money invested at compound interest of 8% p.a. compounded annually, amounted to Rs.7290 in 2 years, find the sum invested.
21. Two numbers are in ratio of 4 : 5. The first number is 60. What is the other number ?

OR

The monthly income of Sonu and Raja are Rs. 14400 and Rs.12800. Find the ratio of Sonu's salary is to Raja's salary as a ratio in the simplest form.

22. Weight of 20 students in a class in kilograms.
40, 41, 43, 48, 49, 50, 54, 52, 54, 50, 53, 42, 48, 50, 48, 52, 53, 51, 52, 50
Group the given data and represent it as a bar graph.

23. Find the cost of painting a tank of dimensions $3\text{m} \times 2\text{m} \times 1.5\text{m}$ at Rs. 20 per square metre.

OR

A rectangular tank's capacity is 189 kilolitres. It is 7m long and 4.5m high. Find its breadth.

24. What is the probability of drawing a white ball from a bag of 30 green balls and 30 white balls ?

SECTION-D (LONG ANSWER TYPE)

10×4=40

25. A boy was flying a kite which was at a height of 40m just above a tree . The string was 50m long. How far away from the tree was the boy flying the kite ?
26. Find cube root of $\frac{-216}{35937}$ by prime factorisation.
27. If one side of a square is increased by 2m and the other side is reduced by 2m, a rectangle is formed whose perimeter is 48m. Find the side of the original square.

OR

A car leaves Agra at 11:00 am travelling at 50 km/hr. How fast would be a second car travelling if it leaves Agra an hour later and overtakes the first car at 5:00 pm ?

28. In how many years will a sum of Rs. 6400 compounded semi-annually at 5% p.a. amount to Rs. 6560 ?

Cont.....

29. The population of a town increases at the rate of 7% every year. If the present population is 90000, what will it be after 2 years ?
30. If x varies directly as y and $x=7$ when $y=28$, find x , when y is 84.
31. Draw a histogram to represent the following data :

Years	Exports in crores of Rs.
1997-1998	6
1998-1999	8
1999-2000	10
2000-2001	5

32. Find the arithmetic mean of the following data:

Marks	Number of students
0-10	5
10-20	10
20-30	15
30-40	17
40-50	13
Total	60

33. A pillar in the shape of a cylinder has 21cm radius and 3m height. Find the curved surface area and the volume of the pillar.
34. What is the probability of getting a sum 9 if two dice are tossed together.

OR

Find the probability of getting at least one tails when two coins are tossed.
