परमाणु ऊर्जा शिक्षण संस्था
Atomic Energy Education Society
उत्तर कुंजी / Answer Key (2025-26)

कक्षा/Class: VII विषय/Subject: Mathematics माह/Month: July अंक/Marks: 40

दिया गया पाठ्यक्रम/Portion covered: Chapter 04

SECTION-A

1. (a) $5(x+2)$
2. (c) $6x-2$
3. (a) x multiplied by 5
4. (c) $3x$
5. (d) $4x$
6. (c) $4x$
7. (b) $2x+3$
8. (d) 5 x 6
9. (b) $3x+6$
10. (b) 7

SECTION-B

11. (a) $x+9$ (b) $2y-4$

12. Variable: x

    Expression: $2x-6$

13. Expression: $2x+y^2$

    Put values, $x=3\ and\ y=4$

    2x3+$(4)(4)$=6+16=22

14. $2(a+b)+3a=2a+2b+3a=5a+2b$

SECTION-C

15. Expression: $5x+3-2x+4x-1$ and $x=2$

    On Solving: $7x+2=7(2)+2=14+2=16$

16. This is a multiplication pattern: 3,6,9,12

Each term = $3(n)$

(a) General term= 3n

(b) 10^{th} term= 3x10=30

17. (a) One notebook cost ₹25

x notebooks cost= $25(x)$

(b)y notebooks cost= 25y

1 pen cost= ₹10

Total cost = 25y+10

SECTION-D

18. (a) Expression for total cost: ₹$3x$ + ₹$5y$ + ₹$2z$

So, Expression: $3x + 5y + 2z$

(b)Already simplified

(c) Substitute values: x=4, y=3, z=5

3x= 3x4=12

5y=5x3=15

2z=2x5=10

Now add: 12+15+10= ₹37

SECTION-E

19. (a) 8x2=16

(b) Multiplication: 4x2=8

(c) $(6 + 2) = 8$

8x5=40

40-3=37

Brackets are solved first, then multiplication, then subtraction. BODMAS ensures correct order.

OR

Correct: 2x3=6

7+6=13

13-1=12

Student's way: (7+2) =9

(3-1) =2

9x2=18, which is wrong

20. (a) Total distinct customers= p +q + r (flags=same number as customers)

(b) p=10, q=15, r=5

Putting the values we get, 10+15+5= 30 flags

(c) 2r means double , which is wrong