परमाणु ऊर्जा शिक्षा संस्था , मुंबई
Atomic Energy Education Society, Mumbai
Session: 2023 – 24

Class: IX **Subject: MATHEMATICS**

WORKSHEET NO.- 1 – ANSWER KEY

Name of the Chapter: INTRODUCTION TO EUCLID'S GEOMETRY (CHAPTER – 5)

1. (b)
2. (b)
3. (d)
4. (d)
5. (c)
6. (c)
7. (c)
8. (b)
9. (a)
10. (b)
11. Three non-collinear pointsA set of three non-collinear points determine a uniqueplane
12. Infinite .
13. Correct definition
14. Correct definition
15. Two . Atleast two distinct points determine a unique line
16. One and infinite. Correct explanation
17. Infinite number of lines can pass through a given point
18. PQ, QR, PR
19. Infinite
20. Two
21. i. Lines AB, PQ AND RS ii . EFGC iii. POINTS A,E,F,B
22. Equal weights
23. Correct proof by Euclid's axioms
24. Correct proof by Euclid's axioms
25. Euclid's fifth axiom
26. One
27. Correct proof by using Euclid's axioms
28. Correct proof by using Euclid's axioms
29. In September their sales are again equal
30. AB = XY by Euclid's axiom
31. AB = DE
32. XY=XZ
33. Correct definitions
34. Using Euclid's axioms
35. Correct proof
36. i.Proof using Euclid's axiom AM = NC
    ii. Proof using Euclid's axiom AB = BC
37. Proof by assuming another midpoint of the line segment
38. i.EF, GH; Point of intersection is R , AB,CD; Point of intersection is P
    ii.AB,EF,GH iii.RB,RH,RG iv.RQ, RP
39. i. PQ,PN,RS,ND,TL ii. Rays QC,PM,RB,DF,LH
    iii. Points A,P,R,B iv. PN,RS and PQ,TL
40. i. A,B,C, D, E,F ii. EG,FH,EF,GH,MN iii.EP,GR,GB,HD iv. M, E, G , B