Factorisation Worksheet – 3

1. The factor of $p^2 + 2pq + q^2$ are $(p – q)$ and $(p – q)$. Mark True / False.

a)   True   b)   False

2. L is a factor of $2P(L + R)$. Mark True/ False.

a)   True   b)   False

3. $\frac{1}{2}$ m and $(m + 1)$ are factor of $\frac{M^2}{2} + \frac{M}{2}$. Mark True / False.

a)   True   b)   False

4. Common factors of $12pq^2$, $144p^2q^3$, 1, $728p^2q$ is $12p^2q$. Mark True / False.

a)   True   b)   False

5. Factorisation of $–4p^2 + 4pq + 4pr$ is $4p (– p – q – r)$. Mark True / False.

a)   True   b)   False

6. The factorisation of $(3x + 9y)$ is $3(x + 3y)$. Mark True / False.

a)   True   b)   False

7. The common factor method of factorisation for a polynomial is based on distributive property. Mark True / False.

a)   True   b)   False

8. The common factor of $(pr^2 + qr)$ is 1. Mark True / False.

a)   True   b)   False

9. Factorised form of $15mn + 9mnp$ is $3mn (5 +3p)$. Mark True / False.

a)   True   b)   False

10. Factorised form of $25y^2 – 20y + 16$ is $(5y – 4)(5y + 4)$. Mark True / False.

a)   True   b)   False

11. The possible factor of $7yz$ is 1, y, z, 7. Mark True / False.

a)   True   b)   False

12. The greatest common factor of $25 a^2b^5$ and $35ab^3$ is $5ab$. Mark True / False.

a)   True   b)   False

13. The greatest common factor of $7p^4 + 21p^2 + 49p^3$ is $7p^2$. Mark True / False.

a)   True   b)   False

14. $px – pz + qx – qz = (p – q)(x – z)$. Mark True / False.

a)   True   b)   False

15. m – 8 + 8nm – nmp = (p – 8)(1 – nm). Mark True / False.

a)   True   b)   False

16. Factorise (m – n)a +(n – m)b ,we get (m – n)(b – a). Mark True / False.

a)   True   b)   False

17. Factorise $18p - 3p^2$ and get 3p(6 – p). Mark True / False.

a)   True   b)   False

18. Product of 6y(1 – 2y) is $-6y + 12y^2$. Mark True / False.

a)   True   b)   False

19. HCF of $3x^2$ and $5y^2$ is '0'. Mark True / False.

a)   True   b)   False

20. Common factor of 7m, $25n^2$, $32p^2$ and 31q is '1'. Mark True / False.

a)   True   b)   False