

# Answer key of Assignment (December 2024)

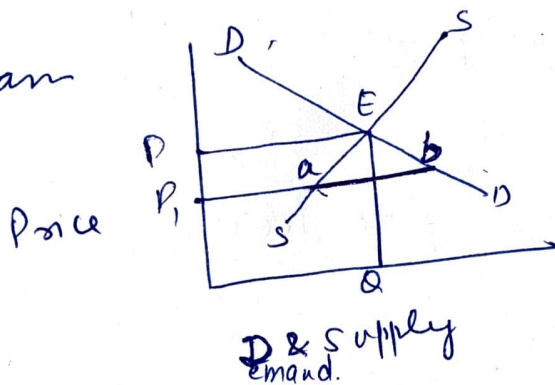
1 (a) 2. (a) 3. (a) 4. <sup>Solved</sup> Below 5 (b)

6. Any three difference b/w Extension & Increase in supply

| Output | Price         | TR | MR |
|--------|---------------|----|----|
| 4      | 9             | 36 | -  |
| 5      | $\frac{8}{7}$ | 40 | 4  |
| 6      | $\frac{7}{7}$ | 42 | 2  |
| 7      | 6             | 42 | 0  |

|  | Amount         |
|--|----------------|
| 4. Annual Explicit Cost                  |                |
| Interest on borrowing 1,00,000 x 9% p.a  | 9000           |
| Annual Salary of Assistant (£12000 x 12) | 144000         |
|  | <u>153,000</u> |

8. Diagram



Excess demand  
 Charn Effect -  
 a to E → Excess supply  
 b to E → Contraction of demand

features of perfect competition

9  $P = £6 \quad Q_s = 200$

$\Delta P = £3$

$P_1 = 9 \quad Q_s = 240$

Rise in supply ⇒  $200 \times \frac{40}{100} = 240$   $\Delta Q = 40$

$$E_s = \frac{\Delta Q}{\Delta P} \times \frac{P}{Q} = \frac{40}{3} \times \frac{6}{200} = \frac{62}{5} = 0.4$$

10. Meaning of law of Variable proportion, Diagram, Assumptions  
Explanation of 3 stages.

### Statistics

11. (d) Statement I false II true.

12. (b)

13. False

14.  $Z = 3M - 2\bar{X}$  (b)  
 $3 \times 25 - 2 \times 20$   
 $75 - 40 = \underline{35}$

15. (b)

16. (i) (a) (ii) (a) Simple classification (b) Manifold classification

17. (iii) spatial classification or geographical classification

17. Any three difference.

18. Any four properties.

19. OR  
Histogram.

19. Ans.  $f_1 = 54$ ,  $f_2 = 104$

20.  $r = 0.951$  or  $0.764$ .