



K24U 2786

Reg. No. : .....

Name : .....

V Semester B.A. Degree (C.B.C.S.S. – O.B.E.- Regular/Supplementary/  
Improvement) Examination, November 2024  
(2019 to 2022 Admissions)

CORE COURSE IN ECONOMICS/DEVELOPMENT ECONOMICS  
5B07 ECO/DEV ECO : Basic Tools for Economic Analysis – I

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions. **Each** carries **one** mark.

1. What do you mean by a sample survey ?
2. Solve  $4x + 2y = 6$  and  $5x + y = 6$ .
3. Explain the chief features of an average.
4. What do you mean by equality of sets ?
5. Find  $A - B$ , if  $A = \{1, 2, 3, 4, 5\}$  and  $B = \{2, 4, 5, 6, 7\}$ .
6. What are deciles and percentiles ?

(6×1=6)

PART – B

Answer **any six** questions. **Each** carries **2** marks.

7. Find the sum of 'n' terms of an A.P. whose 7<sup>th</sup> term is 30 and 13<sup>th</sup> term is 54.
8. Explain the merits and demerits of census method.
9. Explain the desirable properties of a good measure of variation.
10. Solve the equation  $2x^2 + 8x + 8 = 0$ .
11. Distinguish super set and proper subset.
12. Find the equilibrium price and quantity.  
 $S = 20 + 3p$  and  $D = 160 - 2p$  (p is the price).
13. Find the quartile deviation for the following values :  
28, 32, 25, 42, 55, 82, 10, 25, 40, 38, 39
14. Bring out the difference between mean deviation and standard deviation.

(6×2=12)

P.T.O.



## PART – C

Answer **any four** questions. **Each** carries **3** marks.

15. Define a histogram. Represent the following data in a histogram.

|                        |         |         |         |         |         |
|------------------------|---------|---------|---------|---------|---------|
| <b>Marks</b>           | 10 – 15 | 15 – 20 | 20 – 25 | 25 – 30 | 30 – 35 |
| <b>No. of Students</b> | 10      | 25      | 50      | 40      | 15      |

16. What is simple random sampling ? Explain its merits and demerits.

17. Solve :

$$4x + 3y = 2x + 7$$

$$3x = 3y + 2x - 1$$

18. What is Lorenz curve ? What are its uses ?

19. Find the median from the following data.

|                       |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|
| <b>Wage</b>           | 40 | 45 | 50 | 52 | 58 | 60 |
| <b>No. of Workers</b> | 3  | 12 | 20 | 15 | 10 | 8  |

20. Distinguish cost function and revenue function.

(4×3=12)

## PART – D

Answer **any two** questions. **Each** carries **5** marks.

21. Calculate mean for the following data.

|                       |        |         |         |         |         |         |         |         |
|-----------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| <b>Age</b>            | 0 – 10 | 10 – 20 | 20 – 30 | 30 – 40 | 40 – 50 | 50 – 60 | 60 – 70 | 70 – 80 |
| <b>No. of Persons</b> | 15     | 30      | 53      | 75      | 100     | 110     | 115     | 125     |

22. What is skewness ? What are its measures ?

23. What are the measures of dispersion ? Distinguish between absolute and relative measures of dispersion.

24. Solve  $7x - 4y - 20z = 0$

$$10x - 13y - 14z = 0$$

$$3x + 4y - 9z = 11$$

(2×5=10)