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 7th term is 30 and 13th 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.

Marks	10 – 15	15 – 20	20 – 25	25 – 30	30 – 35
No. of Students	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.

Wage	40	45	50	52	58	60
No. of Workers	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.

Age	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
No. of Persons	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)