Cobbin 1	ET (1718 T	000 10000	100174031	HER BILLS	m
		4 113			Ш

Rag. No. :

Name:



V Semester B.A. Degree (CBCSS - Reg./Sup./Imp.)
Examination, November 2020
(2014 Admn. Onwards)
CORE COURSE IN ECONOMICS/DEVELOPMENT ECONOMICS
5807 ECO: Basic Tools for Economic Analysis - I

Time: 3 Hours

Max. Marks: 40

PART - A

Answer all questions and each question carries 1 mark:

- 1. Descriptive statistics.
- 2. Real numbers.
- 3. Function.
- 4. Sample space.

 $(4 \times 1 = 4)$

PART - B

Short answer type questions, answer any 7 questions and each question carries 2 marks :

- 5. Solve $\frac{2}{x+7} = \frac{4}{x}$.
- Find the equation of a straight line passing through the point (4, 5) and whose slope is 6.
- 7. Find the AP of 6 terms, if the first term is $\frac{2}{3}$ and the last term is $\frac{22}{3}$.

P.T.O.

K20U 1412

- 8. In an examination written by 100 students, 48 students passed in mathematics, 40 students in economics and 25 students passed in both. How many students have failed in these two subject?
- 9. Discuss the distributive law of set theory.
- 10. Properties of Arithmetic Mean.
- 11. The rate of increasing in population of India during the last three decades is 5%, 8% and 12%, then the average rate growth is
- 12. The average mark declared by a teacher in a class test is 180. The class consists of only 100 students. Later on it was discovered that a student's mark was misread as 220 instead of 120. Find the correct average mark.
- 13. Simple event and compound event.
- 14. In Tossing a coin thrice, let event, A: there is exactly one head and B: there are at least two head. Find out P(A∪B)?
 (7×2=14)

PART - C

Short essay type questions. Answer any 4 questions and each question carries 3 marks :

- 15. Find the value of $\frac{(18.4)^{1/3}(1.922)^2}{\sqrt{(1.12)(0.85)}}$
- 16. Find the equilibrium price and quantity, if supply and demand functions are D = 100 - 6p S = 28 + 39.
- 17. Find the slope and Y-intercept of the function 2Y = 12x 6.
- 18. What are the various types of statistical graphs and diagrams used in economics?
- 19. Consider the values 32, 35, 36, 37, 39, 41 and 43. Show that AM>GM>HM.
- 20. An urn contains 10 black and 5 white balls. Two balls are drawn from the urn one after the other without replacement. What is the probability that both drawn balls are black?
 (4x3=12)

K20U 1412

PART - D

Essay type questions. Answer any 2 questions and each question carries 5 marks :

21. Solve:

 $x \div y = 7$

y + z = 9

z + x = 8.

- 22. What are the various types of function and discuss its uses in economics ?
- 23. Calculate the coefficient of Skewness from the following data and comment the result:

Х	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
7	6	12	22	48	56	32	18	6

24. Discuss the various approaches to probability.

 $(2 \times 5 = 10)$