oll No_	(To be filled in by the candidate)
	(Academic Sessions 2020 – 2022 to 2022-2024)
	TICS 224-1 <sup>st</sup> Annual-(INTER PART – II) Time Allowed: 15 Minu Maximum Marks: 10  (Objective Type) PAPER CODE = 8642
Note : F	our possible answers A, B, C and D to each question are given. The choice which you think is correctly that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or fill yo or more circles will result in zero mark in that question.
1-1	Battery life time is variable.  (A) Qualitative (B) Discreto (C) Comparable (D) Continuous
2	Graph of class boundaries and frequency is  (A) Histogram  (B) Qgive  (C) Histogram  (D) Bar chart
3	One dimensional diagram is  (A) Rectangular diagram (B) Square diagram  (C) Simple bar chart (D) Pie diagram
4	Single value which represent a set of data:  (A) Symmetric (B) Central tendency (C) Skew-symmetric (D) Quartile (Turn Over
5	If $\Sigma x = 150$ , $\overline{X} = 10$ then $n =$ :
	(A) 10 (B) 50 (C) 5 (D) 15
6	Mode of 2, 7, 10, 15 is :  (A) Zero (B) No mode (C) 2 (D) 15
7	The year of which index number is 100 known as:  (A) Current year (B) Previous year (C) Chain year (D) Base year
8	Consumer price index number is also called index number:  (A) Value  (B) Volume  (C) Cost of living index  (D) Wholesale price
9	Probability of getting red card when a card is drawn from 52:  (A) $\frac{1}{26}$ (B) $\frac{1}{52}$ (C) $\frac{26}{2}$ (D) $\frac{1}{2}$
10	If $P(A \cap B) = P(A) \cdot P(B)$ then A and B are :  (A) Independent (B) Dependent (C) Mutually exclusive (D) Exhaustive

(To be filled in by the candidate)	
STATISTICS (Academic Sessions 2020 - 2022 to 2022-2024)	
(COMMEDCE CROUP) 224-1 <sup>St</sup> Appual-(INTER PART – II) Time Allowed · 1.45 hour	rs
(Essay Type)  SECTION - I LHR - Maximum Marks: 40	
SECTION -1 CIVIC 24	2
2. Write any SIX (6) short answers of the following questions:	2
<ul> <li>(i) Define parameter by giving an example.</li> <li>(ii) Differentiate ungrouped and grouped data.</li> <li>(ii) Define statistics in plural sense.</li> <li>(v) Distinguish between histogram and historigram.</li> <li>(vi) What is an array?</li> <li>(vii) Explain the term "Equally Likely Events".</li> <li>(viii) Write down sample space when three coins are tossed.</li> <li>(ix) A die is rolled. What is the probability that it shows odd numbers?</li> </ul>	
3. Write any SIX (6) short answers of the following questions:	2
<ul> <li>(i) Given D = X - 2075, Σf D = - 10750, Σf = 500, find arithmetic mean.</li> <li>(ii) Describe four desirable qualities of a good average.</li> <li>(iii) Write down any two properties of arithmetic mean.</li> <li>(iv) If mode = 15 and median = 12, find mean.</li> <li>(v) Find the median of 0, -1, -4, 3, 5, 10, -3, -7, 10, 3</li> <li>(vi) Describe four advantages of mode.</li> <li>(vii) Contrast between simple and composite index numbers.</li> <li>(viii) Given</li></ul>	4
Construct a frequency distribution. Using classes with a width of 10 i.e. 10-20, 20-30 etc.	
(b) Draw a frequency polygon from the following data:	4
C.I 5-9 10-14 15-19 20-24 25-29 30-34 35-39	
f 5 11 18 22 15 9 4	
5. (a) For the following data, find arithmetic mean by coding method:	4
Marks 30 – 39 40 – 49 50 – 59 60 – 69 70 – 79	
8 87 190 86 20	
(b) If $D = X - 112$ , calculate median of 'X' for the following data:	4
D -2 -1 0 1 2 3	

	7 1 -1	1 ()	1	2	3
1)				70	

6. (a) Given the prices of four commodities. Construct price index numbers by simple aggregate method taking (i) 2016 as base (ii) average of all year aggregate as base :

V	Commodities				
Years	A	В	C	D	
2016	81	77	119	55	
2017	62	54	128	52	
2018	104	87	111	100	
2019	93	75	154	96	

(b) A fair die is tossed twice. Find the probabilities that the sum of numbers appearing is:

(i) At most 5

(ii) At least 10

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