

SET NO - 1

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT)

II.B.Tech. II MID Exam Objective Branches: CSE,MECH & CE

Sub: Probability & Statistics	Date:08-05-2017
Time: 20 min	Max.Marks:10
Roll no:	Signature of the Faculty:

CHOOSE THE CORRECT ANSWER. 20x1/2	=10M	
1. In a $t-$ distribution of sample size n , the degrees of freedom	are []
a) n b) $n-1$ c) $n-2$ d) $n+1$		
2) The shape of $t-$ distribution is similar to that of	[]
a) Chi-square distribution b) F-distribution		
c) Normal distribution d) None		
3) If $\bar{x} = 47.5$, $\mu = 42.1$, $S = 8.4$ and $n = 25$ then $t_{cal} =$	[]
a) 3.2 b) 4.5 c) 3.12 d) None		
4) Which distribution is used to test the equality of population m	eans []
by comparing sample variances		
a) Chi-square distribution b) F-distribution c) t — distribution	d) None	_
5) Chi-square distribution is	[]
a) Continuous b)Symmetrical c)Multimodal d)None		
6) Range of t – distribution is	l	J
a) $(-\infty, \infty)$ b) $(-\infty, 0)$ c) $(0, \infty)$ d)None		
7) The t – test is applicable to samples for which n is	l	J
a) $n > 30$ $b)n = 30$ $c)n < 30$ $d)$ None		,
8) Range of F – distribution is	l	J
a) $(-\infty, \infty)$ b) $(-\infty, 0)$ c) $(0, \infty)$ d)None		
9. If $\bar{X} = 42.8, \bar{R} = 4.8, A_2 = 0.577$ then Upper control limit for	$\operatorname{r} X = \lfloor$	J
a) 47.2 b) 44.88 c) 42.12 d) 39.35		
10. If $\bar{R} = 0.286, n = 4$ then LCL of $\bar{R} =$	l	J
a) 4.2 b) 2.3 c) 0 d) 1		



SET NO - 1

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT) II.B.Tech. II MID Exam Objective

Branches: CSE,MECH & CE
Sub: Probability & Statistics

Sub: Probability & Statistics Time: 20 min Roll no:	Date:08-05-2017 Max.Marks:10 Signature of the Faculty:
CHOOSE THE CORRECT ANSWER.	20x1/2=10M
1. In a t – distribution of sample size n , the de a) n b) $n-1$ c) $n-2$ d) $n+1$	grees of freedom are [
 2) The shape of t — distribution is similar to that a) Chi-square distribution b) F-distribution c) Normal distribution d) None 	et of [
3) If $\bar{x} = 47.5$, $\mu = 42.1$, $S = 8.4$ and $n = 25$ to a) 3.2 b) 4.5 c) 3.12 d) None	$hen t_{cal} = $ [
4) Which distribution is used to test the equalit by comparing sample variances	y of population means [
a) Chi-square distribution b) F-distribution o	c) $t - \text{distribution d}$ None
5) Chi-square distribution is	[
a)Continuous b)Symmetrical c)Multimoda	al d)None
6) Range of t – distribution is	[
$a)(-\infty,\infty)$ $b)(-\infty,0)$ $c)(0,\infty)$ $d)(0,\infty)$	
7) The t – test is applicable to samples for whi	
a)n > 30 $b)n = 30$ $c)n < 308) Range of F — distribution is$	[
a) $(-\infty, \infty)$ b) $(-\infty, 0)$ c) $(0, \infty)$ 9. If $\bar{X} = 42.8, \bar{R} = 4.8, A_2 = 0.577$ then Uppe a) 47.2 b) 44.88 c) 42.12	er control limit for $\overline{\overline{X}} = [$
10. If $\bar{R} = 0.286$, $n = 4$ then LCL of $\bar{R} =$	a) 39.35 [

- 11. Paired sample t_{cal} is ------
- 12. The control limits for C- chart -----
- 13. The probability that the system is idle $(M/M/1:\infty/FIFO)$ ------
- 14. Degree of freedom for F-test is ------
- 15. The control limits for np- chart -----

TRUE/ FALSE

- 16. The degree of freedom for t-test for different means is $n_1 + n_2 2$ [T / F]
- 17. The np- chart is also called as fraction defective chart [T / F]
- 18. Every arrival is treated as a birth [T/F]
- 19. Average queue length is $L_q = \frac{\rho}{1-\rho}$ [T/F]
- 20. The LCL limit for \bar{X} –chart is $\bar{X} A_2 \bar{R}$ (when σ is not known) [T/F]

- 11. Paired sample t_{cal} is -----
- 12. The control limits for C- chart ------
- 13. The probability that the system is idle $(M/M/1:\infty/FIFO)$ -----
- 14. Degree of freedom for F-test is ------
- 15. The control limits for np- chart -----

TRUE/ FALSE

- 16. The degree of freedom for t-test for different means is $n_1 + n_2 2$ [T / F]
- 17. The np- chart is also called as fraction defective chart [T / F]
- 18. Every arrival is treated as a birth [T/F]
- 19. Average queue length is $L_q = \frac{\rho}{1-\rho}$
- 20. The LCL limit for \bar{X} –chart is $\bar{X} A_2 \bar{R}$ (when σ is not known) [T/F]





Sub: Probability & Statistics

SET NO - 2

Date:08-05-2017

SET NO-2

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT)

Date:08-05-2017

II.B.Tech. II MID Exam Objective Branches: CSE,MECH & CE

Sub: Probability & Statistics

Time: 20 min Roll no:	Max.Marks:10 Signature of the Faculty:
CHOOSE THE CORRECT ANSWER.	20x1/2=10M
1) Chi-square distribution is	[]
a)Continuous b)Symmetrical c)Multim	iodal d)None
2) Range of t – distribution is	L J
$a)(-\infty,\infty)$ $b)(-\infty,0)$ $c)(0,\infty)$	
3) The $t-$ test is applicable to samples for	
a)n > 30 $b)n = 30$ $c)n < 3$	0 d)None
4) Range of F — distribution is	[]
$a)(-\infty,\infty)$ $b)(-\infty,0)$ $c)(0,\infty)$	d)None
5). If $\bar{X} = 42.8$, $\bar{R} = 4.8$, $A_2 = 0.577$ then	Upper control limit for $\overline{\overline{X}} = [$
a) 47.2 b) 44.88 c) 42	
6) If $\bar{R}=0.286$, $n=4$ then LCL of $\bar{R}=$	
	d) 1
7). In a t – distribution of sample size n , the	e degrees of freedom are []
a) n b) $n-1$ c) $n-2$	
8) The shape of t – distribution is similar to	•
a) Chi-square distribution	b) F-distribution
c) Normal distribution	d) None
9) If $\bar{x} = 47.5$, $\mu = 42.1$, $S = 8.4$ and $n = 2$	•
a)3.2 b) 4.5 c) 3.1	****
10) Which distribution is used to test the ed	•
	quality of population means []
by comparing sample Variances	ion c) t distribution d) None
a) Chi-square distribution b) F-distribution	ion c) ι – distribution a) none

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT) II.B.Tech. II MID Exam Objective

.B. Tech. II MID Exam Objective Branches: CSE,MECH & CE

Time: 20 min Roll no:	Max.Marks:10 Signature of the Faculty:	
CHOOSE THE CORRECT ANSWER.	20x1/2=10M	
1) Chi-square distribution is a)Continuous b)Symmetrical c)Multimoda	[]
2) Range of t – distribution is $a)(-\infty,\infty)$ $b)(-\infty,0)$ $c)(0,\infty)$ $d)$ N	[]
3) The $t-{\rm test}$ is applicable to samples for which]
4) Range of F — distribution is $a)(-\infty,\infty)$ $b)(-\infty,0)$ $c)(0,\infty)$	[]
5). If $\bar{X} = 42.8$, $\bar{R} = 4.8$, $A_2 = 0.577$ then Uppe	_]
6) If $\bar{R}=0.286, n=4$ then LCL of $\bar{R}=$]
a) 4.2 b) 2.3 c) 0 7). In a t – distribution of sample size n , the degraph of n b) $n-1$ c) $n-2$ d) $n+1$	d) 1 grees of freedom are []
8) The shape of t — distribution is similar to that a) Chi-square distribution b) F-distribution c) Normal distribution d) None	t of []
9) If $\bar{x} = 47.5$, $\mu = 42.1$, $S = 8.4$ and $n = 25$ th b) 3.2 b) 4.5 c) 3.12 d) None	$t_{cal} = $ []
10) Which distribution is used to test the equality comparing sample Variances a) Chi-square distribution b) F-distribution c]

11. The probability that the system is idle $(M/M/1:\infty/FIFO)$ -----11. The probability that the system is idle $(M/M/1:\infty/FIFO)$ -----12. Degree of freedom for F-test is ------12. Degree of freedom for F-test is ------13. The control limits for np- chart -----13. The control limits for np- chart -----14. Paired sample t_{cal} is -----14. Paired sample t_{cal} is -----15. The control limits for C- chart -----15. The control limits for C- chart -----TRUE/ FALSE TRUE/ FALSE 16. Average queue length is $L_q = \frac{\rho}{1-\rho}$ [T / F] 16. Average queue length is $L_q = \frac{\rho}{1-\rho}$ [T / F] 17. The LCL limit for \bar{X} –chart is $\bar{X} - A_2 \bar{R}$ (when σ is not known) [T / F] 17. The LCL limit for \bar{X} –chart is $\bar{X} - A_2 \bar{R}$ (when σ is not known) [T/F] 18. Every arrival is treated as a birth [T / F] 18. Every arrival is treated as a birth [T / F] 19 The degree of freedom for t-test for different means is $n_1 + n_2 - 2$ [T / F] 19 The degree of freedom for t-test for different means is $n_1 + n_2 - 2$ [T / F] 20. The np- chart is also called as fraction defective chart [T/F].

[T / F].

20. The np- chart is also called as fraction defective chart



SET NO -3



SET NO - 3

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT) II.B.Tech. II MID Exam Objective Branches: CSE,MECH & CE Sub: Probability & Statistics Date:08-04-2017

Time: 20 min

Roll no:

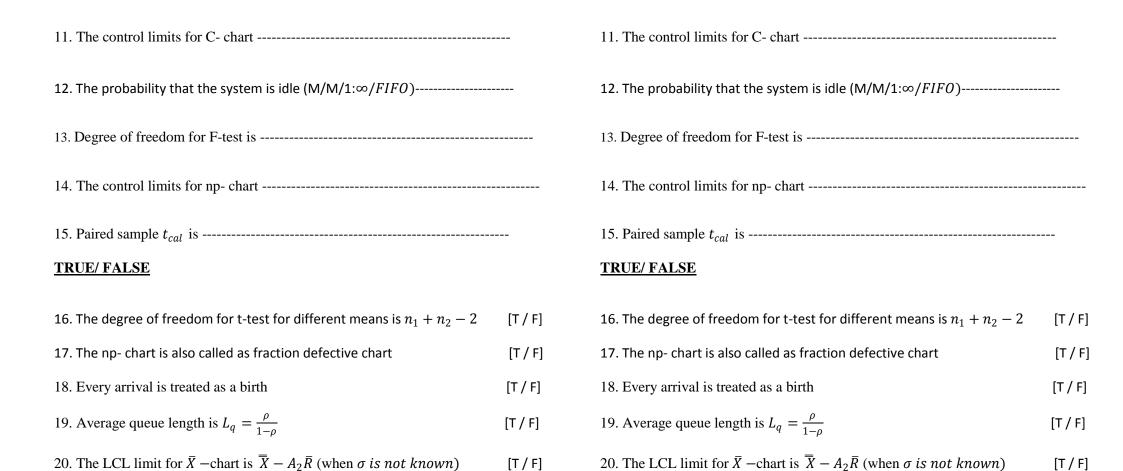
Signature of the Faculty:

CHOOSE THE CORRECT ANSWER. 20x1/2=10M		
1) If $\bar{x} = 47.5$, $\mu = 42.1$, $S = 8.4$ and $n = 25$ then $t_{cal} = 47.5$	[]
c) 3.2 b) 4.5 c) 3.12 d) None		
2) Which distribution is used to test the equality of population means	[]
by comparing sample		
Variances		
a) Chi-square distribution b) F-distribution c) $t-$ distribution d) No	ne	
3) Chi-square distribution is	[]
a)Continuous b)Symmetrical c)Multimodal d)None		
4) Range of t – distribution is	[]
$a)(-\infty,\infty)$ b) $(-\infty,0)$ c) $(0,\infty)$ d)None		_
5) The $t-$ test is applicable to samples for which n is	[1
a)n > 30 $b)n = 30$ $c)n < 30$ $d)$ None	-	-
6) Range of F – distribution is	1	1
$a)(-\infty,\infty)$ $b)(-\infty,0)$ $c)(0,\infty)$ d)None	•	•
7). In a t – distribution of sample size n , the degrees of freedom are	[]
a) n b) $n-1$ c) $n-2$ d) $n+1$	-	Ī
8) The shape of t – distribution is similar to that of	ſ	1
a) Chi-square distribution b) F-distribution	•	•
c) Normal distribution d) None		
9. If $\bar{X}=42.8, \bar{R}=4.8, A_2=0.577$ then Upper control limit for $\overline{\bar{X}}=4.8$	Γ	1
a) 47.2 b) 44.88 c) 42.12 d) 39.35	L	J
10. If $\bar{R} = 0.286, n = 4$ then LCL of $\bar{R} =$	г	1
	L	J
a) 4.2 b) 2.3 c) 0 d) 1		

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT) II.B.Tech. II MID Exam Objective

Branches: CSE,MECH & CE

Sub: Probability & Statistics Time: 20 min Roll no:	Date:08-04-2017 Max.Marks:10 Signature of the Faculty:	_
CHOOSE THE CORRECT ANSWER.	20x1/2=10M	_
1) If $\bar{x} = 47.5$, $\mu = 42.1$, $S = 8.4$ and $n = 25$	then $t_{cal} = $]
d) 3.2 b) 4.5 c) 3.12 d) None2) Which distribution is used to test the equal by comparing sample	ity of population means []
Variances a) Chi-square distribution b) F-distribution	a c t - distribution d None	
Chi-square distribution is a)Continuous b)Symmetrical c)Multimod	[]
4) Range of t – distribution is $a(-\infty, \infty)$ $b(-\infty, 0)$ $c(0, \infty)$ $d(0, \infty)$	·	
5) The t – test is applicable to samples for wh]
a)n > 30 $b)n = 30$ $c)n < 30$		•
6) Range of F — distribution is	[]
a) $(-\infty,\infty)$ b) $(-\infty,0)$ c) $(0,\infty)$	d)None	
7). In a t – distribution of sample size n , the n a) n b) $n-1$ c) $n-2$ d) $n+1$	degrees of freedom are []
8) The shape of t — distribution is similar to the a) Chi-square distribution b) F-distribution c) Normal distribution d) None	-]
9. If $\bar{X} = 42.8$, $\bar{R} = 4.8$, $A_2 = 0.577$ then Upp	='']
a) 47.2 b) 44.88 c) 42.12 10. If $\bar{R}=0.286, n=4$ then LCL of $\bar{R}=$		1
a) 4.2 b) 2.3 c) 0	(d) 1]







SET NO -4

Time: 20 min	CHNOLOGY (AT) SET NO -4 Date:08-04-2017 Max.Marks:10 e of the Faculty:	SET NO -4 G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT) II.B.Tech. II MID Exam Objective Sub: Probability & Statistics Date:08-04-2017 Time: 20 min Max.Marks:10
	20x1/2=10M tion means [] bution d) None [] e [] eedom are [] [] limit for $\overline{\overline{X}}$ = [] [] []	Roll no: Signature of the Faculty: CHOOSE THE CORRECT ANSWER.

11. The probability that the system is idle (M/M/1: $\infty/FIFO$)		11. The probability that the system is idle (M/M/1: $\infty/FIFO$)		
12. Degree of freedom for F-test is		12. Degree of freedom for F-test is		
13. Paired sample t_{cal} is		13. Paired sample t_{cal} is		
14. The control limits for C- chart		14. The control limits for C- chart		
15. The control limits for np- chart		15. The control limits for np- chart		
TRUE/ FALSE		TRUE/ FALSE		
16. Average queue length is $L_q = \frac{\rho}{1-\rho}$	[T / F]	16. Average queue length is $L_q = \frac{\rho}{1-\rho}$	[T / F]	
17. The LCL limit for \bar{X} –chart is $\bar{X} - A_2 \bar{R}$ (when σ is not known)	[T / F]	17. The LCL limit for \bar{X} —chart is $\bar{X} - A_2 \bar{R}$ (when σ is not known)	[T / F]	
18. The degree of freedom for t-test for different means is $n_1 + n_2 - 2$	[T / F]	18. The degree of freedom for t-test for different means is $n_1 + n_2 - 2$	[T / F]	
19. The np- chart is also called as fraction defective chart	[T / F]	19. The np- chart is also called as fraction defective chart	[T / F]	
20. Every arrival is treated as a birth	[T / F]	20. Every arrival is treated as a birth	[T / F]	