

SET NO - 1

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT)

IL.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 means []
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 []
a) $(-\infty, \infty)$ b) $(-\infty, 0)$ c) $(0, \infty)$ d) None
- 7) The t – test is applicable to samples for which n is []
a) $n > 30$ b) $n = 30$ c) $n < 30$ d) None
- 8) Range of F – distribution is []
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 $\bar{X} =$ []
a) 47.2 b) 44.88 c) 42.12 d) 39.35
10. If $\bar{R} = 0.286, n = 4$ then LCL of $\bar{R} =$ []
a) 4.2 b) 2.3 c) 0 d) 1

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a) 4.2 b) 2.3 c) 0 d) 1

11. Paired sample t_{cal} is -----

12. The control limits for C- chart -----

13. The probability that the system is idle (M/M/1: ∞ /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 $\bar{\bar{X}} - A_2\bar{R}$ (when σ is not known) [T / F]

11. Paired sample t_{cal} is -----

12. The control limits for C- chart -----

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SET NO-2

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20x1/2=10M

- 1) Chi-square distribution is []
a)Continuous b)Symmetrical c)Multimodal d)None
- 2) Range of t – distribution is []
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- 3) The t – test is applicable to samples for which n is []
a) $n > 30$ b) $n = 30$ c) $n < 30$ 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 $\bar{X} =$ []
a) 47.2 b) 44.88 c) 42.12 d) 39.35
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11. The probability that the system is idle (M/M/1: ∞ /FIFO)-----

12. Degree of freedom for F-test is -----

13. The control limits for np- chart -----

14. Paired sample t_{cal} is -----

15. The control limits for C- chart -----

TRUE/ FALSE

16. Average queue length is $L_q = \frac{\rho}{1-\rho}$ [T / F]

17. The LCL limit for \bar{X} -chart is $\bar{\bar{X}} - A_2\bar{R}$ (when σ is not known) [T / F]

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- 1) If $\bar{x} = 47.5, \mu = 42.1, S = 8.4$ and $n = 25$ then $t_{cal} =$ []
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