



ACE

Engineering Academy



Hyderabad | Delhi | Bhopal | Pune | Bhubaneswar | Bengaluru | Lucknow | Patna | Chennai | Vijayawada | Visakhapatnam | Tirupati | Kukatpally | Kolkata

H.O: 204, II Floor, Rahman Plaza, Opp. Methodist School, Abids, Hyderabad-500001,

Ph: 040-23234418, 040-23234419, 040-23234420, 040 - 24750437

ESE- 2018 (Prelims) - Offline Test Series

Test-14

GENERAL STUDIES

**SUBJECT: STANDARDS AND QUALITY PRACTICES IN PRODUCTION,
CONSTRUCTION, MAINTENANCE AND SERVICES
SOLUTIONS**

01. Ans: (c)

Sol: All of the mentioned reasons reduce labour productivity.

02. Ans: (b)

Sol: First party: Internal customer
Second party: End user
Third party: External customer

03. Ans: (d)

Sol: a, b & c are correct statements regarding audit.

04. Ans: (b)

Sol: 'b' is given 50% weightage

05. Ans: (d)

Sol: Establishing procedures is part of quality assurance.

06. Ans: (d)

Sol: All the outcomes are potential costs of poor quality.

07. Ans: (b)

Sol: 1994 version focussed on quality assurance. 2000 version focussed on quality improvement (P-D-C-A is method included). 2015 version increased the focus on environment.

08. Ans: (a)

Sol: (1) or (2) is compulsory relevant certification.

09. Ans: (a)

Sol: These standards are some of the frequently searched ones.

10. Ans: (d)

Sol: All the mentioned ones are contributions of Deming.

11. Ans: (d)

Sol: Zero defect is the contribution of Crosby.

12. Ans: (b)

Sol: Lowest frequency is for service failures.

13. Ans: (a)

Sol: List-I consists of are definitions of quality given by quality Gurus in List-II.

14. Ans: (b)

Sol: Quality inspector is internal customer, while the rest are external customers.

15. Ans: (d)

Sol: All are contributions of Juran.

Pre GATE-2018

COMPUTER BASED TEST

Date of Exam : 20th Jan 2018

Last Date To Apply : 05th Jan 2018

www.aceenggacademy.com

16. Ans: (b)

Sol: Option (b) is external view while the remaining are internal views.

17. Ans: (b)

Sol: Reinspection is internal failure cost while remaining are appraisal costs.

18. Ans: (d)

Sol: All the mentioned are hidden quality costs, i.e., costs which are very difficult to find.

19. Ans: (c)

Sol: Deming was against the points mentioned.

20. Ans: (a)

Sol: List-II is concept given by Gurus in List-I

21. Ans: (a)

Sol: List-II is definition given by ISO for term used in List-I.

22. Ans: (a)

Sol: 'a' is special (assignable) cause while the rest are random (common) causes.

23. Ans: (b)

Sol: $p = \frac{20}{100} = 0.2$; $q = 1 - 0.2 = 0.8$

$n = 10000$; $z = 2$

$UCL = np + 2\sqrt{npq}$

$= 10000 \times 0.2 + 2\sqrt{0.2 \times 0.8 \times 10000}$

$= 2080$

24. Ans: (d)

Sol: All the statements are true regarding operating characteristic (OC) curve.



ESE | GATE - 2019

LONG TERM BATCHES

EC | EE | ME | CE | CS | IN | PI

Start Early, Gain Surely



Pioneer to
Leader



Dedicated
Service



Experienced Faculty
from Central Pool

Admissions are open at all our centers

H. O. : Hyderabad : Ph : 040-23234418,19,20

Bangalore 9341299966	Kukatpally 040-6597 4465	Delhi 9205282121	Bhopal 0755-2554512	Pune 020-25535950	Bhubaneswar 0674-2540340	
Lucknow 808199966	Patna 9308699966	Chennai 044-42123289	Vijayawada 0866-2490001	Vishakapatnam 0891-6616001	Tirupathi 0877-2244388	Kolkata 8297899966

25. **Ans: (b)**

$$\text{Sol: } C_{pk} = \frac{31.8 - 31.9}{3 \times 0.025} < 1$$

$$C_p = \frac{2 \times 0.1}{6 \times 0.025} > 1$$

26. **Ans: (b)**

Sol: Fish bone diagram is used when enough data is available, while the rest are used when not enough data is available.

27. **Ans: (d)**

Sol: All the statements are true.

QFD: Quality functional deployment

DFSS: Design for six sigma

FMEA: Failure made effect analysis

28. **Ans: (c)**

Sol: All the statements are objectives of quality circle.

29. **Ans: (d)**

Sol: a, b and c are correct statements.

30. **Ans: (d)**

Sol: Over production, waiting and unnecessary motion are wastes.

31. **Ans: (a)**

Sol: Objective of SMED is changeover time must be less than 10 minutes.

32. **Ans: (d)**

Sol: All the mentioned techniques reduce setup time (changeover time).

33. **Ans: (d)**

Sol: Who, What and How questions and answers are written in matrix diagram called as house of quality used in quality functional deployment.

GATE - 2018

ONLINE TEST SERIES

No. of Tests : 62

All tests will be available till
12th February 2018

ESE - 2018 PRELIMS

ONLINE TEST SERIES

No. of Tests : 44

All tests will be available till
07th January 2018

ISRO - 2017

ONLINE TEST SERIES

No. of Tests : 15

All tests will be available till
25th December 2017

★ HIGHLIGHTS ★

- Detailed solutions are available.
- **All India rank** will be given for each test.
- Comparison with all India toppers of **ACE** students.

 www.aceenggacademy.com

 testseries@aceenggacademy.com

34. Ans: (c)

Sol: Creativity is encouraged but in the process of eliminating waste.

35. Ans: (d)

Sol: All the mentioned reasons are responsible for machine failures.

36. Ans: (d)

Sol: TPM addressed major losses related to availability, performance and yield.

37. Ans: (d)

Sol: Reliability, Assurance, Tangible, Empathy and reliability(RATER) are dimensions of service quality.

38. Ans: (d)

Sol: a, b and c are dimensions of service quality usually associated with product quality. Features is a dimension usually associated with product quality.

39. Ans: (d)

Sol: Contact method identifies product defects by testing the product's size, shape, colour or other physical attributes.

Fixed value or constant number method alerts the operator if a certain number of movements are not made.

Motion-step (or sequence) method determines whether the prescribed steps of the process have been followed.

40. Ans: (b)

41. Ans: (d)

42. Ans: (a)

Sol: Taguchi's quality loss concept doesn't tell how to make customer praise.



43. Ans: (a)

Sol: To stream line operations, either automation or elimination of bottlenecks (or both) is considered.

While addressing bottleneck, current process must be addressed.

By implementing any of the above, change over time can be reduced.

44. Ans: (d)

Sol: It is best tool to eliminate root causes because priorities are depicted pictorially.

45. Ans: (b)

46. Ans: (a)

Sol: We will go for second sample only when decision can't be taken with first sample.

47. Ans: (d)

Sol: 5s is not house keeping. In maintaining workplace cleaner and better organised, it gives a chance to improve the process by reducing break downs.

48. Ans: (a)

Sol: Lesser the variation, higher the customer satisfaction.

49. Ans: (b)

Sol: Both statements are true. The correct explanation for statement (I) is 99.75% of all observations lie between $\pm 3\sigma$ from mean.

50. Ans: (a)

Sol: Praising or not praising the product affect customers perception of product and hence company

GATE TOPPERS

GATE 2017

1 EC PRAMOD	1 ME SUDHEER	1 ME HASAN ASIF	1 EE SHYAM SINGH	1 CE MADEK RAKESH	1 CS DEVAL N PATEL	1 IN NAVEEN	2 EC SREE KALYANI
2 CE PUNEET KHANNA	2 IN RAHUL MAFATO	2 IN SHUBHAM BANSAL	2 PI GAURAV DHARWAL	3 EC KARUN	3 EE RAVI TEJA	3 ME PRADIP DOBADO	3 CS RAVI SHANKAR
3 CE ANKUR TRIPATHI	4 EC SONU SHARMA	4 EE SARFRAJ NAWAZ	4 CE CHIRAG MITTAL	4 ME GAUSH ALAM	4 IN MONTI	4 PI Sanghmitra Adhikari	5 IN VRAJESH SHAH
5 PI ANKIT TIWARI	6 EC LIPITA SAI LIPU	6 CS MEGHASHAYAM	6 EE RAJASEKHAR REDDY	6 IN RAMESH KAMELJA	6 PI FENAL KUMAR RANA	7 IN PANKAJ WISHRA	8 ME DIVYANSHU JHA
8 PI Nitesh Bhargava	9 EC Anand Upadhyay	9 CS Nitesh Anand Sharma	9 ME SHUBBY KUMAR JHA	10 EC AMI BAWAZ	10 ME SIDDHANT SARKAR	10 EE SURAJ DAGH	10 IN PANKAJ MEDDAL
							10 IN SIDDHANT SHARMA

ESE TOPPERS

ESE 2017

(CE)

1 CE NAMIT JAIN	2 CE PRAVIND SINGH
3 CE ANROT	6 CE BISHESH BHARGAVA
8 CE ADITYA SINGH	9 CE HIMANSHU GAUTAM
10 CE AYUSH DUBEY	7 IN TOP 10 RANKS

7
All India 1st Rank in ESE.

(E&T)

2 EST DIVYANSHU CHAUDHARY	3 EST KUNAL BHINSAWALI
5 EST AMIT GAUTAM	6 EST SUBHANGI MEHTA
7 EST DEVIKASH PRASAD KUMAR	8 EST DEBANI GOWL
9 EST ADISHIK PRATAP SINGH	10 EST LIMESH

8
IN TOP 10 RANKS
and many more...

(EE)

2 EE PRIETI KUMARI	3 EE RANJAN SINGH
4 EE HARSH KUMAR SINGH	5 EE NIBEL KUMAR
6 EE DUSHYANT SINGH	8 EE AJAYKHA GUPTA
9 EE NIBAN DASU KONERU	

7
IN TOP 10 RANKS

(ME)

3 ME SAURASH	4 ME AMIT KUMAR RAJ
6 ME ANKAN GUPTA	7 ME DHRUW JHA
9 ME ACHARAJ GUPTA	

5
IN TOP 10 RANKS

27
Ranks in Top 10 in ESE-2017



ACE
Engineering Academy
Leading Institute for ESE/GATE/PSUs