



# ACE

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**ESE- 2018 (Prelims) - Offline Test Series**

**Test-16**

**GENERAL STUDIES**

**SUBJECT: BASICS OF PROJECT MANAGEMENT**  
**SOLUTIONS**

01. Ans: (c)

Sol: There is minimum requirement of personnel and hence minimum cost at the project initiation stage. Hence statement (1) is wrong.

02. Ans: (c)

Sol: Projects constraints are - Scope, Resources, Quality, Time and Budget.

03. Ans: (d)

Sol: Hierarchical description of risks is called Risk Breakdown structure

04. Ans: (b)

05. Ans: (a)

06. Ans: (b)

Sol:

$$\begin{aligned} & \text{Cost overrun} \\ &= \frac{\text{Actual cost at work} - \text{Actual value of work}}{\text{Actual value of work}} \\ &= \frac{1500 - 1200}{1200} = \frac{300}{1200} \\ &= 0.25 \text{ (or) } 25\% \end{aligned}$$

If Actual value of work at a certain time [1200] < Budget value of work at the same time [1000]

then project is ahead of schedule

07. Ans: (b)

08. Ans: (d)

09. Ans: (c)

10. Ans: (a)

11. Ans: (c)

12. Ans: (d)

13. Ans: (a)

$$\begin{aligned} \text{Sol: } t_E &= \frac{t_0 + 4t_m + t_p}{6} = \frac{3 + 4(5) + 13}{6} \\ &= \frac{36}{6} = 6 \text{ weeks} \end{aligned}$$

14. Ans: (a)

Sol: Reliable means more contain. Hence we calculate variance of each supplier

Supplier	Variance
A	$\left(\frac{10-2}{6}\right)^2 = 1.77$
B	$\left(\frac{14-4}{6}\right)^2 = 2.77$
C	$\left(\frac{15-3}{6}\right)^2 = 4$
D	$\left(\frac{12-2}{6}\right)^2 = 2.77$

Variance of 'A' is less, hence he is more reliable.

# Pre GATE-2018

COMPUTER BASED TEST

Date of Exam : 20<sup>th</sup> Jan 2018

Last Date To Apply : 05<sup>th</sup> Jan 2018

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15. Ans: (c)

Sol:

### Life Cycle

1. Conceptual Stage
2. Planning stage
3. Implementation stage
4. Monitory/controlling stage
5. Closure stage

### Cost Estimate

- Indicative  
Preliminary  
Definition  
Detailed  
Final

16. Ans: (b)

17. Ans: (b)

18. Ans: (d)

19. Ans: (c)

20. Ans: (a)

21. Ans: (d)

22. Ans: (c)

23. Ans: (c)

24. Ans: (d)

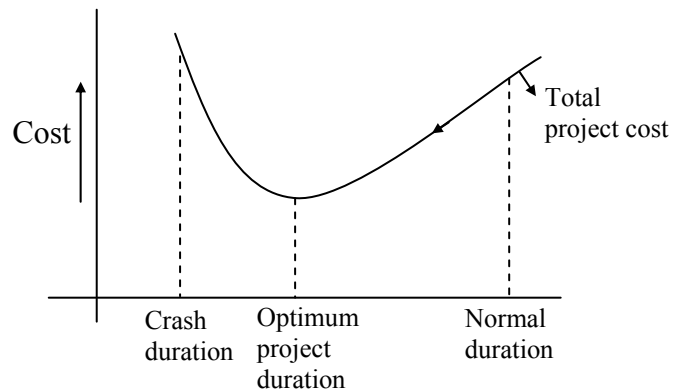
25. Ans: (c)

26. Ans: (d)

27. Ans: (a)

28. Ans: (d)

Sol:



29. Ans: (b)

30. Ans: (b)

$$\text{Sol: } \text{EOQ} = \sqrt{\frac{2DC_0}{C_c}} = \sqrt{\frac{2 \times 2000 \times 200}{20}} = 200 \text{ units}$$

31. Ans: (c)



# ESE | GATE - 2019

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32. Ans: (d)

Sol:

Proportionality rule					
Week	1	2	3	4	5
Planned value	200	200	<b>200</b>	200	200
Cumulative planned value	200	400	<b>600</b>	800	1000

33. Ans: (c)

34. Ans: (d)

35. Ans: (c)

Sol: CPM does not cover probabilistic activities.

36. Ans: (d)

37. Ans: (a)

Sol: Annual depreciation is decreasing continuously in case of

- (i) Declining balance
- (ii) Sum-of-years digit method

38. Ans: (d)

39. Ans: (b)

Sol: At optimum project duration, the project cost is minimum.

Activity	Optimum duration (Days)	Min. Project cost (Rs.)
P	10	22
Q	8	15
R	6	23
	<b>24 days</b>	<b>Rs. 60</b>

40. Ans: (b)

41. Ans: (d)

42. Ans: (d)

43. Ans: (b)

44. Ans: (a)

45. Ans: (c)

46. Ans: (b)

47. Ans: (b)

48. Ans: (b)

49. Ans: (d)

50. Ans: (a)

# GATE TOPPERS

**GATE 2017**

1 EC PRAMOD	1 ME SUDHEER	1 ME HASAN ASIF	1 EE SHYAM SINGH	1 CE MADHU PARESH	1 CS DEVAL N PATEL	1 IN NAVEEN	2 EC SREE KALYANI
2 CE PUNEET KHANNA	2 IN RAHUL MAHATO	2 IN SHUBHAM BANSAL	2 PI GAURAV DHARMAL	3 EC KARUN	3 EE RAVI TEJA	3 ME PRADIP BOBADI	3 CS RAVI SHANKAR
3 CE ANILKUR TEPATHE	4 EC SONU SHARMA	4 EE SARFRAJ NAWAZ	4 CE CHIRAG MITTAL	4 ME GAUSH ALAM	4 IN MONTI	4 PI Sanghavi Adhikari	5 IN VRAJESH SHAH
5 PI ANKIT TIWARI	6 EC LIPITA SAI LIPPU	6 CS MEGHASHAYAM	6 EE RAJASEKHAR REDDY	6 IN BAMESH KAMALLA	6 PI PRNAL KUMAR RANA	7 IN PANKAJ MISHRA	8 ME DIVYANSHU JHA
8 PI Anurag Bhargava	9 EC Anand Upadate	9 CS Nikhil Kumar Saha	9 ME SHIBU KUMAR JHA	10 EC AMIT BAWAT	10 ME ANSHU GUPTA	10 EE SURAJ DAGH	10 IN KUNAL MODAL
							10 IN SHUBH CHANDRAN

# ESE TOPPERS

**ESE 2017**

**CE**

1 CE NAMIT JAIN	2 CE PRAVIND SINGH
3 CE ANKIT	6 CE SHUBHAM BHARGAVACH
8 CE ADITYA SINGH	9 CE HIMANSHU GAUTAM
10 CE AYUSH DUBLEY	7 IN TOP 10 RANKS

**7**  
All India 1<sup>st</sup> Rank in ESE.

**E&T**

2 EST DIVYANSHU CHAUDHARY	3 EST RIFULLUR MENWANGLU
5 EST AMIT GAUTAM	6 EST SUBBLANGM REDDIA
7 EST DEVIKURISHA PRINIA KUMAR	8 EST DEEPA GUWAL
9 EST ABHIRAM PRADIP SINGH	10 EST LIMESH

**8**  
IN TOP 10 RANKS

and many more...

**EE**

2 EE PREETI KUMARI	3 EE RANGSIDDH
4 EE HARSH ET KUMAR SINGH	5 EE NIGEL KUMAR
6 EE DUSHYANT SINGH	8 EE AJAYKUNJA GUPTA
9 EE NIDAN DASU KONESU	

**7**  
IN TOP 10 RANKS

**ME**

3 ME SAURASH	4 ME AMIT KUMAR RAN
6 ME ANJAN GUPTA	7 ME DHIRUW JHA
9 ME ACHARAJ GUPTA	

**5**  
IN TOP 10 RANKS

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