



SoftTech

International

In Engineering Education Software

GATE

Preparation & Practice Software

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Pune - 411037

Key Features

Key Features of our Software

- Unlimited Users
- Exam Timer
- Last Test Performance Graph & Last Test Rank
- GATE Test Result Meter Window
- Student Information System (Reports, Graphs)
- Login Control (Admin, Staff & Student)
- Last 20+ yrs GATE Papers & 40+ GATE Mock Tests
- Add linked questions as per GATE 2021 structure
- GATE Subject wise Papers + Core Engg. Tests
- Competitive Exam Tests
- Staff can add there Lecture notes to server
- Staff can add their own Questions
- Staff can Create their own Tests
- One Time Investment for Institute, perpetual license
- Connectivity through LAN (No Internet Required)
- Numerical Answer Type (NAT) question also Available
- Students can view all previously submitted GATE & Mock Exams



Departments

We have developed GATE Software for Following Departments

- **Electronics and Telecommunication Engineering**
- **IT / Computer Science Engineering**
- **Mechanical Engineering**
- **Civil Engineering**
- **Electrical Engineering**
- **Chemical Engineering**
- **Instrumentation Engineering**
- **Metallurgy Engineering**
- **Production Engineering**
- **Agricultural Engineering**
- **Architecture**
- **Biotechnology**
- **Mathematics**
- **Physics**
- **Chemistry**

Test Structure (MCQ's)

Key Points in test Structure

- Department and Test Name
- Timer (Time Remaining)
- Question Pallet (Attempted, Not Attempted, visited Questions)
- Correct and Wrong Answers
- Explanation
- Test Score (Immediate after submitting the test)

IT/Computer Engineering

Time Remaining: 02:55:56

Timer

Test Name: GATE 2018

Test Name

Test Score: 26.00

Marks

WELCOME- itose Student ^ Up

Question No: 64

Consider an IP packet with a length of 4,500 bytes that includes a 20-byte IPv4 header and a 40-byte TCP header. The packet is forwarded to an IPv4 router that supports a Maximum Transmission Unit (MTU) of 600 bytes. Assume that the length of the IP header in all the outgoing fragments of this packet is 20 bytes. Assume that the fragmentation offset value stored in the first fragment is 0.

The fragmentation offset value stored in the third fragment is _____.

(A) 4

(B) 64 Wrong Answer

(C) 104

(D) 144 Correct Answer

Question

Explanation
Previous
Next
Exit
Calculator

Data Header

↑ ↑

(4480 + 20) 500 Bytes

↓

Needed to fragment

∴ Total number of fragments = $\frac{4480}{576} = 7.777 \approx 8$

	(1)	(2)	(3)
Datalength	576 Bytes (0 to 575)	576 Bytes (576-1151)	576 Bytes (1152-1727)
Offset	0/8=0	$\frac{576}{8} = 72$	$\frac{1152}{8} = 144$

Explanation

Question Pallet No. of question-65

1

2

3

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65

Answered
 Visited But Not Answer

Not Visited

Test Structure (NAT)

Key Points in test Structure

- Numerical Keypad for Nat Questions
- Correct Answer Range

Question No: 65 Mark: 2

The lengths and bearings of a traverse PQRS are:

Segment	Length (m)	Bearing
PQ	40	80°
QR	50	10°
RS	30	210°

The length of line segment SP (in m, round off to two decimal places), is _____.

Answer :

Backspace

7	8	9
4	5	6
1	2	3
±	0	.

Clear All

Numerical Answer Type (NAT) question

Question Pallet Total Questions-65

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40	41	42
43	44	45	46	47	48	49
50	51	52	53	54	55	56
57	58	59	60	61	62	63
64	65					

Legend: ● Answered ● Not Visited ● Visited But Not Answer

[Previous](#) [Calculator](#) [Explanation](#) [Exit](#)

Answer Range: 44 to 45
(44.79)

Correct Answer Range

$$\begin{aligned}\Delta L &= 40\cos 80^\circ + 50\cos 10^\circ + 30\cos 210^\circ \\ &= 30.20\end{aligned}$$

$$\begin{aligned}\Delta D &= 40\sin 80^\circ + 50\sin 10^\circ + 30\sin 210^\circ \\ &= 33.07\end{aligned}$$

$$\text{Length, SP} = \sqrt{\Delta L^2 + \Delta D^2} = 44.79 \text{ m}$$

Result Window

Key Points in Result Window

- Result Meter
- Attempted Questions
- Not Attempted Questions
- Correct Questions
- Wrong Questions
- Total Marks (Test Score)

RESULT



Attempted Questions	Not Attempted Questions	Correct Questions	Wrong Questions	Total Marks
35	30	13	22	7.0

You Should Practice More !!

Check Explanation

Edit

Result Summary

Key Points

- Past Exam Details
- View Test in Test Mode

Test Name : GATE 2020

View Exam in Test Mode

Go to Exam

Save

Search:

Table Summary	
Total Marks	72.0
Student Name	civil Student
Roll No	301
Attempted Question	51
Not-attempted Question	14
Correct Answers	47
Wrong Answers	4

Past Exam Details

Question No.	Marked Answers	Correct Answers	Mark
1	B	B	1
2	C	C	1
3	A	A	1
4	B	B	1
5	D	D	1
6	C	D	2
7	A	A	2
8		C	2
9	A	A	2
10	B	C	2
11	C	C	1
12	B	B	1
13	B	B	1
14	C	C	1
15	B	C	1
16	C	C	1
17		C	1
18	B	B	1
19	A	A	1
20	A	A	1
21	C	C	1
22	A	A	1
23	D	A	1
24	A	A	1
25	C	C	1
26	B	B	1
27	B	B	1

Past Exam in Test mode

Key Points

- Past Exam Time
- Test Score
- Correct Answer and Wrong Answer
- Explanation

Previous Year Civil Engineering

Time Remaining:

Test Name: GATE 2020

Test Score

Your Score Test: 72 Total Mark: 100

Exam Date And Time: 2020/03/14 14:50:50

Past Exam Time

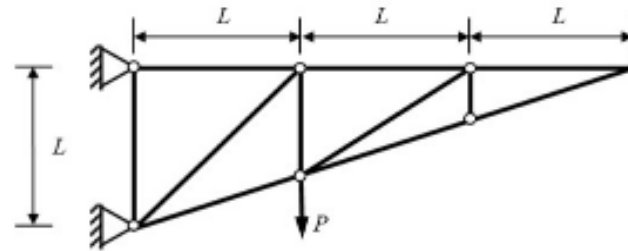
WELCOME - civil Student

Up

Question No: 15

Mark: 1

Consider the planar truss shown in the figure (not drawn to the scale)



Neglecting self-weight of the members, the number of zero-force members in the truss under the action of the load P , is

- (A) 6
- (B) 7
- (C) 8
- (D) 9

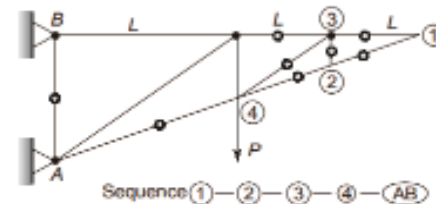
Wrong Answer
Correct Answer

Question Pallet Total Questions-65

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35
36	37	38	39	40	41	42
43	44	45	46	47	48	49
50	51	52	53	54	55	56
57	58	59	60	61	62	63
64	65					

Answered Not Visited
 Visited But Not Answer

Previous Next Calculator Explanation Exit



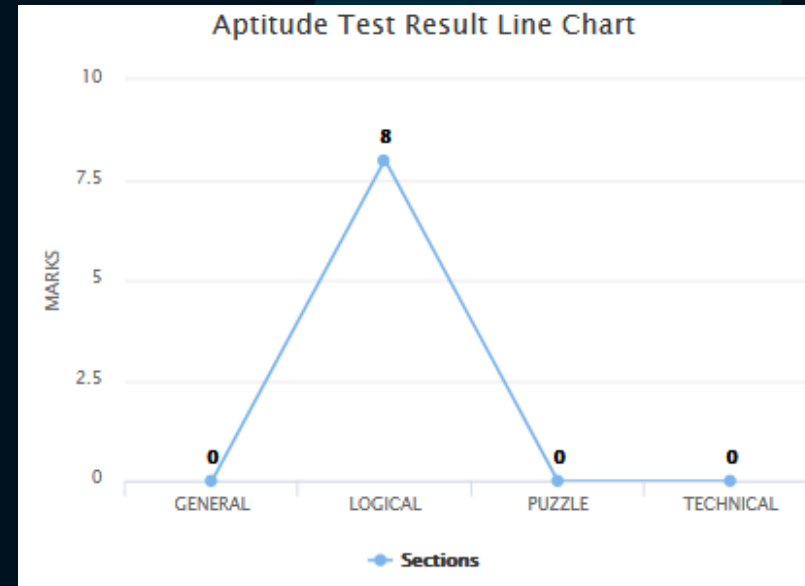
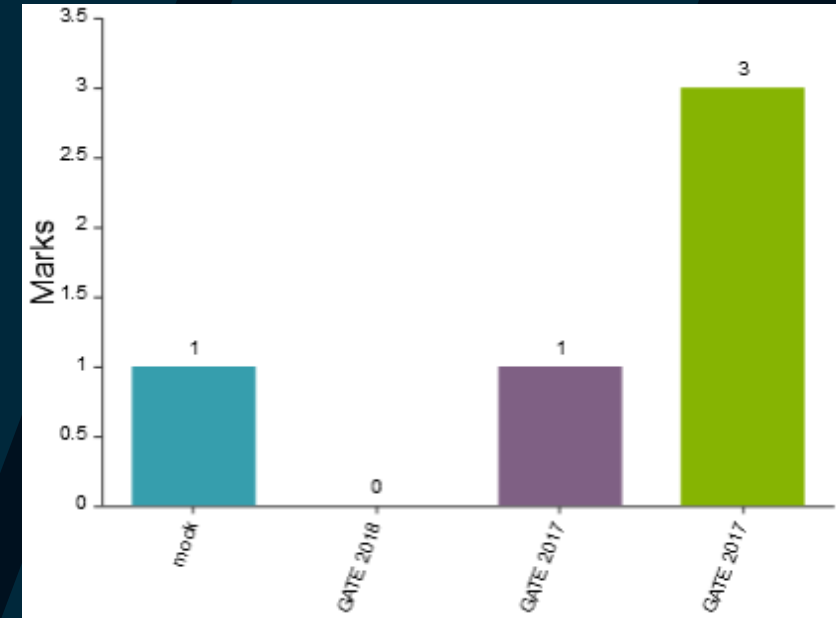
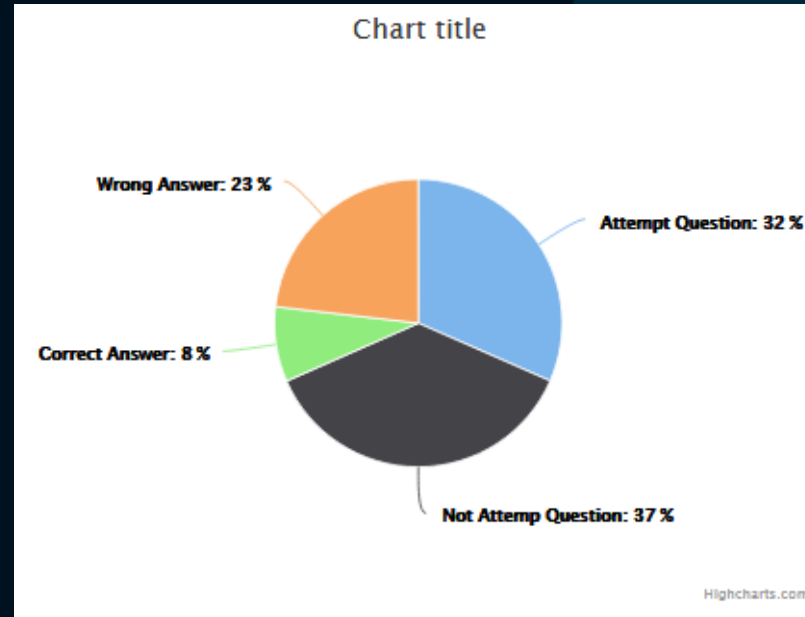
As $\Delta_{AB} = 0$, hence $F_{AB} = 0$
Total number of zero force member = 8

Explanation

Report & Graphs

Student Progress Reports are available in the form of

- Pie Chart
- Bar Chart
- Line Chart
- Table



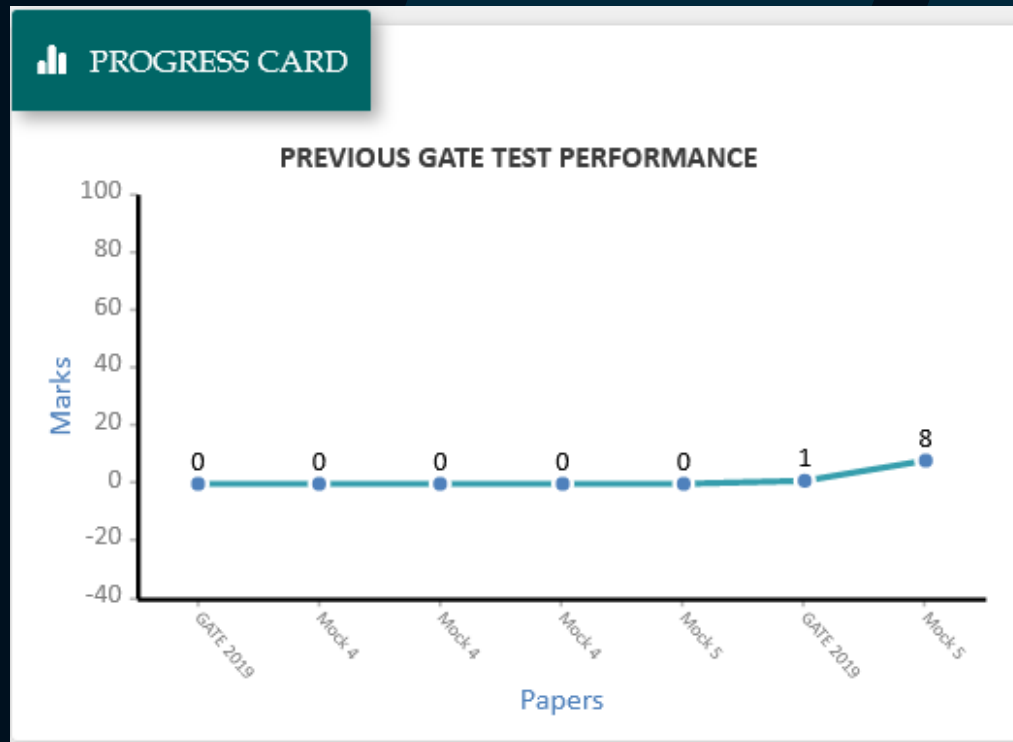
Student GATE Result Report

Roll No	First Name	Last Name	Test Name	Total Mark	Correct Answers	Wrong Answer
01	electronics	electronics	GATE 2001	0.67	5	13
01	electronics	electronics	GATE 2002	0.33	5	14
01	electronics	electronics	GATE 2013	-0.33	5	10
01	electronics	electronics	GATE 2016	0	0	0
01	electronics	electronics	GATE 2016	0	0	0
01	electronics	electronics	GATE 2016	0	0	0

Rank & Performance Graphs

Student Last Test Performance is available in the form of

- Progress Card
- Rank



YOUR RANK

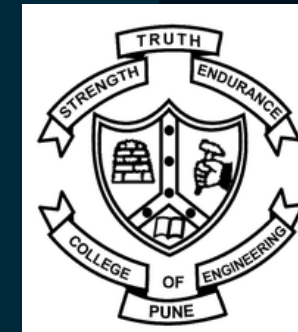
Your Last Test Rank is..

Test Name : Mock 5

Our Customers

Here are some of our Happy Customers

- Uttarakhand Technical University, Uttarakhand
- NERIST Nirjuli, Arunachal Pradesh
- PMCE Berhanpur, Odisha
- SIT Pithoragarh, Uttarakhand
- VECT Ambikapur, Chhattisgarh
- COEP, Pune Maharashtra



Thank You !!!