



SoftTech

International

In Engineering Education Software

GATE

Preparation & Practice Software

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Key Features

Key Features of our Software

- Unlimited Users
- Login Control (Admin, Staff & Student)
- One Time Investment for Institute, perpetual license
- Connectivity through LAN (No Internet Required)
- Student Information System (Reports, Graphs)
- Student's Performance Graph & Test Rank
- Last 20+ years GATE Papers (Latest GATE2021)
And 40+ GATE Mock Tests
- GATE Subject wise Papers + Core Engg. Tests
- Competitive Exam Tests
- Staff can add there Lecture notes to server



Key Features

Key Features of our Software

- Staff can add their own Questions
- Staff can Create their own Tests
- NPTL video lecture links for student
- Exam Timer
- GATE Test Result Meter Window
- Add linked questions as per GATE 2021 structure
- Numerical Answer Type (NAT) question also Available
- Student can ask Question query to Staff during any Exam.
- Students and Staff can view all previously submitted GATE & Mock Exams by Students



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**
- **Biomedical Engineering**
- **Metallurgy Engineering**
- **Production Engineering**
- **Agricultural Engineering**
- **Architecture**
- **Biotechnology**
- **Mathematics**
- **Physics**
- **Chemistry**
- **Food Technology**

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

Explanation Previous Next Exit Calculator Ask Query

Data Header
↑ ↑
(4480 + 20) 500 Bytes
↓
Needed to fragment

MTU
580 + 20
Data Header

∴ 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 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

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 : ✓ 44.80

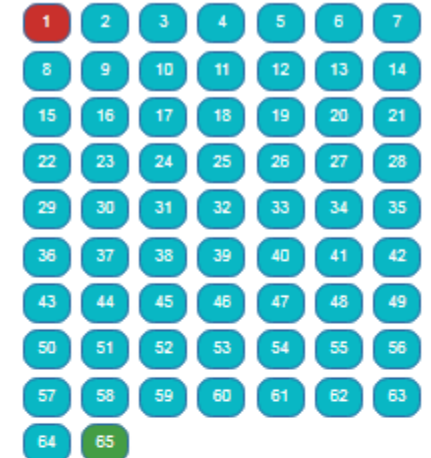
Backspace

7	8	9
4	5	6
1	2	3
±	0	.

Clear All

Numerical Answer Type (NAT) question

Question Pallet Total Questions-65



Answered Not Visited
Visited But Not Answer

Previous

Calculator

Explanation

Ask Query

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
61	4	51	10	74.0

Score is Excelent !!

Check Explanation

Exit

Result Summary

Key Points

- Past Exam Details
- View Test in Test Mode

Test Name : GATE 2020

[View Submitted Exam](#)

[Question-Wise](#)

[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

Test Name: GATE 2020

Test Score

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

Past Exam Time

Time Remaining:

Your Score Test: 72 Total Mark: 100

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

Sequence ①-②-③-④-AB

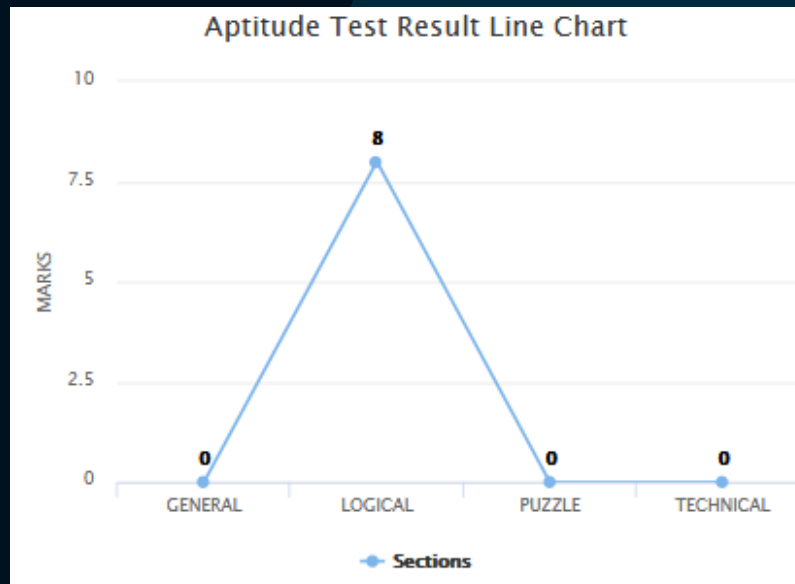
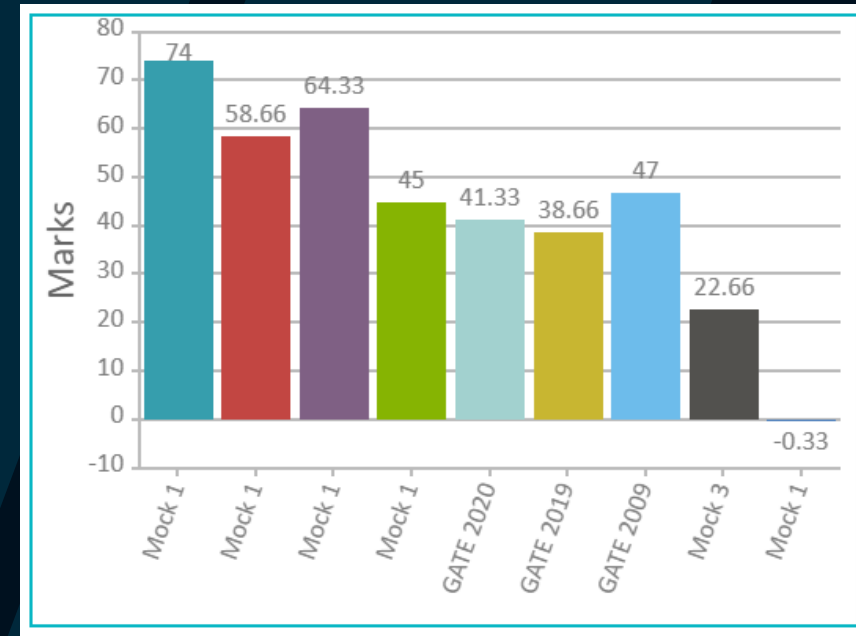
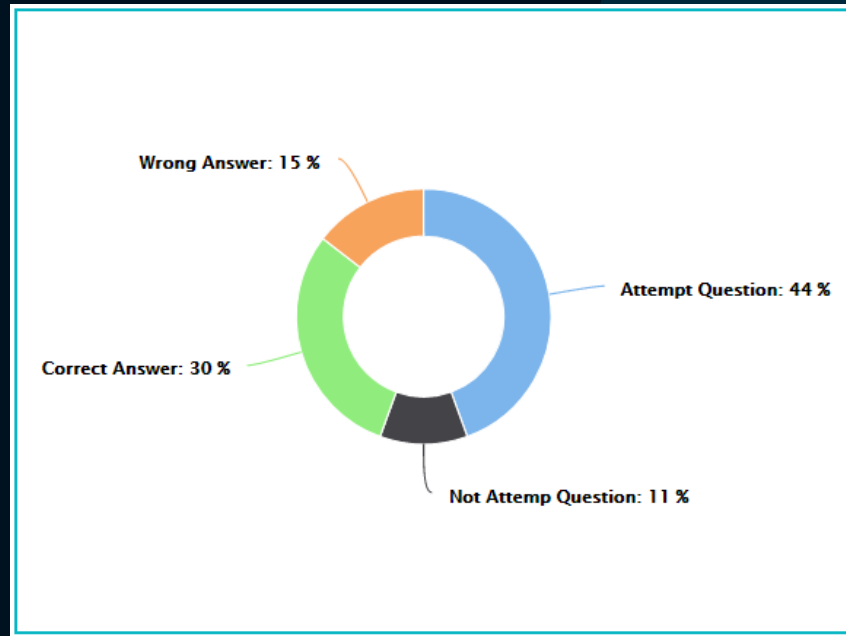
As $\Delta_{AB} = 0$, hence $F_{AB} = 0$
Total number of zero force member = 8

Explanation

Report & Graphs

Student Progress Reports are available in the form of

- Pie Chart
- Bar Chart
- Line Chart
- Table



Student GATE Result Report

Show 10 entries Search

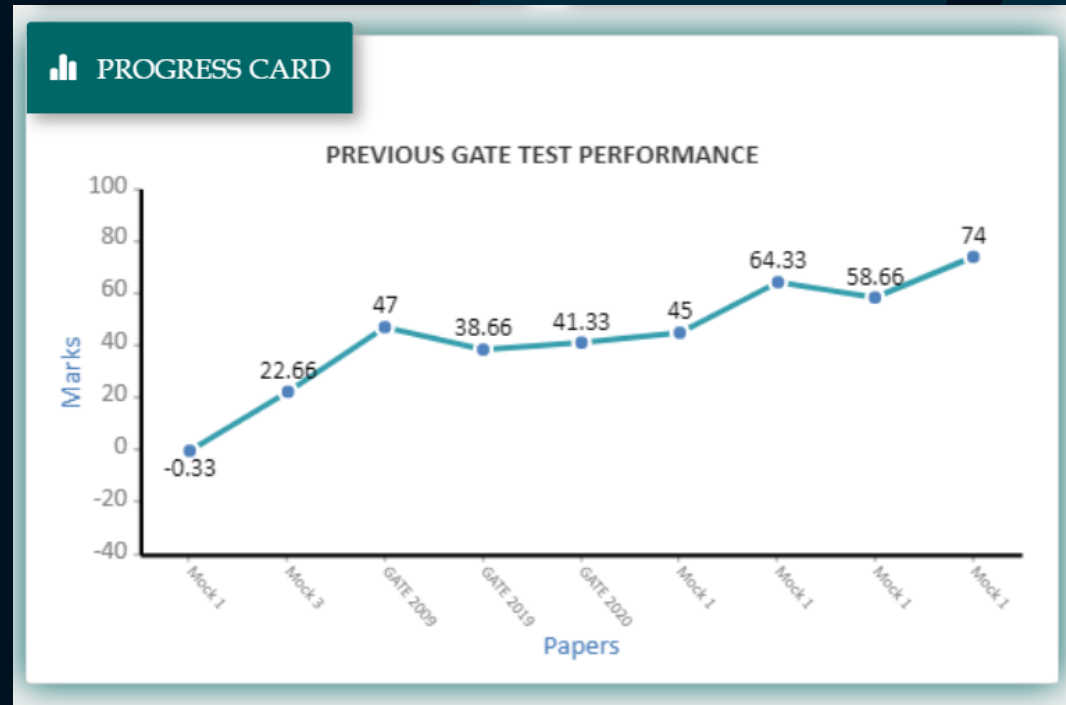
Roll No	First Name	Last Name	Test Name	Total Mark	Correct Answers	Wrong Answers	Department	Submit Date & Time	View Test
401	Architecture	BE	Mock1	-0.33	0	1	Architecture	2020/09/14 18:01:38	View Test
401	Architecture	BE	Mock 1	74	51	10	Architecture	2021/05/02 22:15:11	View Test
401	Architecture	BE	Mock 1	58.66	45	11	Architecture	2021/05/02 21:23:22	View Test
401	Architecture	BE	Mock 1	64.33	45	20	Architecture	2021/05/01 21:23:28	View Test
401	Architecture	BE	Mock1	45	35	6	Architecture	2021/05/01 21:03:24	View Test
401	Architecture	BE	GATE 2020	41.33	38	9	Architecture	2021/05/01 20:57:01	View Test
401	Architecture	BE	GATE 2019	38.66	30	10	Architecture	2021/05/01 20:54:19	View Test
401	Architecture	BE	GATE 2009	47	35	17	Architecture	2021/05/01 20:51:54	View Test
401	Architecture	BE	Mock 3	22.66	20	5	Architecture	2021/05/01 20:43:59	View Test

Showing 1 to 9 of 9 entries First Previous Next Last

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 !!!

