


[Question Papers](#)
[Construction project management software](#)
[Statement](#)
[Question Paper](#)
[Syllabus](#)
[Home](#) | [Overview](#) | [Syllabus](#) | [Tutorials](#) | [FAQs](#) | [Downloads](#) |

[Recommended Websites](#)
[Advertise](#) | [Payments](#) |

[Contact Us](#) | [Forum](#)
[Add by Google](#)
[Attitude Test Papers](#)
[Gate Question Bank](#)
[Gate 2010 Syllabus](#)
[Gate Previous Papers](#)

GATE Resources

- ☛ Gate Articles
- ☛ Gate Books
- ☛ Gate Colleges
- ☛ Gate Downloads
- ☛ Gate Faqs
- ☛ Gate Jobs
- ☛ Gate News
- ☛ Gate SamplePapers
- ☛ Training Institutes

GATE Overview

- ☛ Overview
- ☛ GATE Eligibility
- ☛ Structure Of GATE
- ☛ GATE Coaching Centers
- ☛ Colleges Providing M.Tech/M.E.
- ☛ GATE Score
- ☛ GATE Results
- ☛ PG with Scholarships
- ☛ Article On GATE
- ☛ GATE Forum

GATE 2010 Exclusive

- ☛ Organizing Institute
- ☛ Important Dates
- ☛ How to Apply
- ☛ Discipline Codes

GATE 2010 Syllabus

- ☛ Aerospace Engg..
- ☛ Agricultural Engg..
- ☛ Architecture and Planning
- ☛ Chemical Engg..
- ☛ Chemistry
- ☛ Civil Engg..
- ☛ Computer Science / IT
- ☛ Electronics & Communication Engg..
- ☛ Electrical Engg..
- ☛ Engineering Sciences
- ☛ Geology and Geophysics

Home » GATE Preparation » Sample Papers

Computer Science Engineering

Looking for GATE Preparation Material? Join & Get here now!

[Computer Science Engineering Sample Papers](#)

Computer Science Engineering Sample Papers

1 The problems 3-SAT and 2-SAT are

- A) both in P
- B) both NP-complete
- C) NP-complete and in P respectively
- D) undecidable and NP-complete respectively

Answer : (C) 2 Consider the following relation schema pertaining to a students database:

Student (rollno, name, address)

Enroll (rollno, courseno, coursename)

where the primary keys are shown underlined. The number of tuples in the Student and Enroll tables are 120 and 8 respectively. What are the maximum and minimum number of tuples that can be present in (Student * Enroll), where '*' denotes natural join?

- A) 8, 8
- B) 120, 8
- C) 960, 8
- D) 960, 120

Answer : (C)

3 Consider a relation scheme R = (A, B, C, D, E, H) on which the following functional dependencies hold : (A -> B, BC -> D, E -> C, D -> A). What are the candidate keys of R?

- A) AE, BE
- B) AE, BE, DE
- C) AEH, BEH, BCH



Free Oracle Magazine

- ⊞ Instrumentation Engineering
- ⊞ Life Sciences
- ⊞ Mathematics
- ⊞ Mechanical Engg..
- ⊞ Metallurgical Engg..
- ⊞ Mining Engg..
- ⊞ Physics
- ⊞ Production & Industrial Engg..
- ⊞ Pharmaceutical Sciences
- ⊞ Textile Engineering and Fibre Science

GATE Study Material

- ⊞ Aerospace Engg..
- ⊞ Agricultural Engg..
- ⊞ Chemical Engg..
- ⊞ Chemistry
- ⊞ Civil Engg..
- ⊞ Computer Science / IT
- ⊞ Electronics & Communication Engg..
- ⊞ Electrical Engg..
- ⊞ Engineering Sciences
- ⊞ Instrumentation Engg..
- ⊞ Life Sciences
- ⊞ Mathematics
- ⊞ Mechanical Engg..
- ⊞ Physics
- ⊞ Pharmaceutical Sciences
- ⊞ Textile Engineering and Fibre Science

GATE Preparation

- ⊞ GATE Pattern
- ⊞ GATE Tips N Tricks
- ⊞ Compare Evaluation
- ⊞ Sample Papers
- ⊞ GATE Downloads
- ⊞ Experts View

CEED 2010

- ⊞ CEED Exams
- ⊞ Eligibility
- ⊞ Application Forms
- ⊞ Important Dates
- ⊞ Contact Address
- ⊞ Examination Centres
- ⊞ CEED Sample Papers

Discuss GATE

- ⊞ GATE Forum
- ⊞ Exam Cities
- ⊞ Contact Details
- ⊞ Bank Details

Miscellaneous

- ⊞ Advertisement
- ⊞ Contact Us

D) AEH, BEH, DEH

Answer : (D)

4 The goal of structured programming is to

- A) have well indented programs
- B) be able to infer the flow of control from the compiled code
- C) be able to infer the flow of control from the program text
- D) avoid the use of GOTO [statements](#)

Answer : (C)

5 The tightest lower bound on the number of comparisons, in the worst case, for comparison-based sorting is of the order of

- A) n
- B) n^2
- C) $n \log n$
- D) $n \log^2 n$

Answer : (B)

6 A circuit outputs a digit in the form of 4 bits. 0 is represented by 0000, 1 by 0001, ..., 9 by 1001. A combinational circuit is to be designed which takes these 4 bits as input and outputs 1 if the digit ≥ 5 , and 0 otherwise. If only AND, OR and NOT gates may be used, what is the minimum number of gates required

- A) 2
- B) 3
- C) 4
- D) 5

Answer : (C)

7 WA and B are the only two stations on an Ethernet. Each has a steady queue of frames to send. Both A and B attempt to transmit a frame, collide, and A wins the first backoff race. At the end of this successful transmission by A, both A and B attempt to transmit and collide. The probability that A wins the second backoff race is

- A) 0.5
- B) 0.625
- C) 0.75
- D) 1.0

Answer : (A)

8 If 73_x (in base- x [number system](#)) is equal to 54_y (in base- y number system), the possible values of x and y are

- A) 8, 16
- B) 10, 12
- C) 9, 13
- D) 8, 11

Answer : (D)

9 In a packet switching network, packets are routed from source to destination along a single path having two [intermediate](#) nodes. If the message size is 24 bytes and each packet contains a header of 3 bytes, then the optimum packet size is

- A) 4
- B) 6
- C) 7
- D) 9

Answer : (D)

10 A Priority-Queue is implemented as a Max-Heap. Initially, it has 5 elements. The level-order traversal of the heap is given below: 10, 8, 5, 3, 2 Two new elements 1 and 7 are inserted in the heap in that order. The level-order traversal of the heap after the insertion of the elements is

- A) 10, 8, 7, 5, 3, 2, 1
- B) 10, 8, 7, 2, 3, 1, 5
- C) 10, 8, 7, 1, 2, 3, 5
- D) 10, 8, 7, 3, 2, 1, 5

Answer : (D)

11 Consider an operating system capable of loading and executing a single sequential user process at a time. The disk head scheduling algorithm used is First Come First Served (FCFS). If FCFS is replaced by Shortest Seek Time First (SSTF), claimed by the vendor to give 50% better benchmark results, what is the expected improvement in the I/O performance of user programs ?

- A) 50%
- B) 40%
- C) 25%
- D) 0%

Answer : (D)

FREE

Coupons

upto

90%

off

Over 200 brands across 8 categories

Register Now



MEMBERS LOGIN

EmailId:

Password:

[Forgot Password?](#)

[New User? Register!](#)

ADVERTISEMENT

12 How many distinct binary search trees can be created out of 4 distinct keys?

- A) 5
B) 14
C) 24
D) 42

Answer : (B)

Tag Cloud

Free online dating sites

Free online dating site

Sample papers www.edurite.com

Question Papers, Guess/Test Papers, Previous Exam Papers.

Prepare for MAT 2011/2012 www.myod.com

Make Your Own Destiny. Enroll in the Best MAT College.

Bachelor of Commerce Smude.edu.in/2011_Admission_Opened

Bcom from Sikkim Manipal University Program Approved by DEC & UGC!

GATE Architecture exam www.architectureaptitude.com

GATE 2012 Architecture exam study Material + Question bank + Mocktest

AdChoices 

 **Discussion Center**



Discuss/
Query



Papers/
Syllabus



Feedback/
Suggestion



Yahoo
Groups



Sirfdosti
Groups



Contact
Us



My site is worth
\$44,432.
How much is yours
worth?



INTERVIEW EBOOK

Get 9,000+ Interview Questions & Answers in an eBook.



- 9,000+ Interview Questions
- All Questions Answered
- 5 FREE Bonuses
- Free Upgrades

Save upto 90%

GATE RESOURCES

- Gate Books
- Training Institutes
- Gate FAQs

GATE Exam, Gate 2009, Gate Papers, Gate Preparation & Related Pages

GATE Overview | GATE Eligibility | Structure Of GATE | GATE Training Institutes | Colleges Providing M.Tech/M.E. | GATE Score | GATE Results | PG with Scholarships | Article On GATE | GATE Forum | GATE 2009 Exclusive | GATE 2009 Syllabus | GATE Organizing Institute | Important Dates for GATE Exam | How to Apply for GATE | Discipline / Branch Codes | GATE Syllabus for Aerospace Engineering | GATE Syllabus for Agricultural Engineering | GATE Syllabus for Architecture and Planning | GATE Syllabus for Chemical Engineering | GATE Syllabus for Chemistry | GATE Syllabus for Civil Engineering | GATE Syllabus for Computer Science / IT | GATE

Syllabus for Electronics and Communication Engineering | GATE Syllabus for Engineering Sciences | GATE Syllabus for Geology and Geophysics | GATE Syllabus for Instrumentation Engineering | GATE Syllabus for Life Sciences | GATE Syllabus for Mathematics | GATE Syllabus for Mechanical Engineering | GATE Syllabus for Metallurgical Engineering | GATE Syllabus for Mining Engineering | GATE Syllabus for Physics | GATE Syllabus for Production and Industrial Engineering | GATE Syllabus for Pharmaceutical Sciences | GATE Syllabus for Textile Engineering and Fibre Science | GATE Preparation | GATE Pattern | GATE Tips & Tricks | GATE Compare Evaluation | GATE Sample Papers | GATE Downloads | Experts View on GATE | CEED 2009 | CEED 2009 Exam | Eligibility for CEED Exam | Application forms of CEED Exam | Important Dates of CEED Exam | Contact Address for CEED Exam | CEED Examination Centres | CEED Sample Papers | Discuss GATE | GATE Forum of OneStopGATE.com | GATE Exam Cities | Contact Details for GATE | Bank Details for GATE | GATE Miscellaneous Info | GATE FAQs | Advertisement on GATE | Contact Us on OneStopGATE |

Copyright © 2011. One Stop Gate.com. All rights reserved

Testimonials | Link To Us | Sitemap | Privacy Policy | Terms and Conditions | About Us

Our Portals : Academic Tutorials | Best eBooksworld | Beyond Stats | City Details | Interview Questions | India Job Forum | Excellent Mobiles | Free Bangalore | Give Me The Code | Gog Logo | Free Classifieds | Jobs Assist | Interview Questions | One Stop FAQs | One Stop GATE | One Stop GRE | One Stop IAS | One Stop MBA | One Stop SAP | One Stop Testing | **Web Hosting** | Quick Site Kit | Sirf Dosti | Source Codes World | Tasty Food | Tech Archive | Software Testing Interview Questions | Free Online Exams | The Galz | Top Masala | Vyom | Vyom eBooks | Vyom International | Vyom Links | Vyoms | Vyom World
C Interview Questions | C++ Interview Questions | Send Free SMS | **Placement Papers** | **SMS Jokes** | Cool Forwards | **Romantic Shayari**

18059373