

# Important Questions

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ET / NGT

## Unit I

- (1) Importance of Big data
- (2) What is Big data and explain its characteristics
- (3) Explain Big data
- (4) Difference between Acid and Base properties
- (5) Explain CAP theorem
- (6) SQL vs NoSQL
- (7) SQL vs MongoDB

## Unit II

- (1) Explain JSON and BSON to big data
- (2) Explain Capped Collections
- (3) How to create a collection (Implicit and explicit)
- (4) Explain selector and Projector
- (5) Discuss indexes and its types
- (6) 3 core components of MongoDB
- (7) Explain the concept of Sharding
- (8) Explain Master-Slave Replication with neat diagram

## Unit III

- (1) Explain Data Storage Engine and its Types
- (2) Differentiate Between MMAP and Wired Tiger
- (3) How Data is Written Journaling

## endless & frequent

④ GridFS (short-note) T/F

⑤ Short note on performance monitoring  
of Mongodb query I find

⑥ limitations of Sharding I

⑦ limitations of indexes in sharding S

⑧ Write short notes on Deployment

⑨ Hardware requirements of MongoDB

Ques. How can we perform monitoring? S

Unit IV

as follows

① What is Jquery? Explain features  
of Jquery JEE

② Jquery CSS Selectors S

③ Traversing Methods of Jquery

④ slide up, down, toggle

⑤ addClass, removeClass II find

⑥ The end of disk? SSD kind in Memory  
databases based on index S

Ans. ⑦ Times ten times of you S

⑧ Redis (syntax base)

⑨ Explain Solid State Disk S

Ans. explanation of basic concept S

Unit V Node.js based on node.js S

① What is JSON? S

② Explain JSON grammar S

③ Explain JSON values S

④ Explain JSON tokens III find

⑤ JSON datatypes of JSON S

⑥ Parsing JSON S

topic based

parsing official a file with S

# Important Questions

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## SPM / SPD

- Project definition and funding (II final)
- Unit I  
1) Explain what is SPM (1)
- 2) Importance of SPM for W (3)
- 3) What is Project? and characteristics of Project (types of projects) (2)
- 4) Activities of SPM process (2)
- 5) Methodologies (2)
- 6) Stakeholders and their roles (types of stakeholders) (2)
- 7) Business Case/Plan to build (3)
- 8) What is Management? Levels of Management and types of management (2)
- 9) Project Management Life Cycle (II final) (1)
- 10) Project Portfolio Management (1)
- 11) Allocation of Resources and its Management (2)

## Unit II of Project for SPM (2)

- 1) Selection of appropriate Project approach (2)
- 2) Choosing Methodologies and Technologies (2)
- 3) Waterfall Model (1) (2)
- 4) Spiral Model (1) (2)
- 5) Rad Model (1)

## Formation of Agile Model, short program (1)

- 6) Agile Model, short program (1)
- 7) Software Prototyping (1)
- 8) Explain Boehm's Function Point (1)
- 9) Capers Jones Estimating Rules of Thumb (1)

## CoCoMo Model

# 2nd year Software Engineering I

## Unit III

## PPTs \ MP3s

① What is activity planning?

objectives of activity planning

② What is Risk? types of Risks

identification ③ Boehm's Risks and Counter

Measures

④ Explain Project and Activities

⑤ Risk Management techniques

⑥ Identify resource Requirements

(ranked importance)

⑦ Sum of Network diagram, Pert,

To also Critical path method

faster approach to seqn. b/w diagrams

Unit IV

① Explain Monitoring and Control

framework ② Framework of monitoring & control

③ Collecting Data

④ Cost Monitoring

⑤ Ways to get project back to target

⑥ Change control

approaches b/w application & calendar

⑦ Contracts and types of Contracts

⑧ Stages of contract formation

labor law

⑨ Managing People in Software environment

principles of management

⑩ What is Stress? Types of Stress

to How to manage stress?

# Important Questions

IOT

II sem

## Unit I

- ① Define and explain Internet of things
- ② Advantages and disadvantages of IOT
- ③ Write note of Calm and Ambient technology
- ④ Explain graceful degradation and affordances
  
- ⑤ What is IP address and Types of IP addresses
- ⑥ Types of IP address assignment
- ⑦ Write short note of DNS

## Unit II

- ① What is sketching ? and its role in prototyping
- ② Difference between open source and closed source
- ③ Write note on sensors and actuators
  
- ④ Explain the following
  - Good night lamp
  - Botanicals
  - Bakers Treat

(5) Explain the process of scaling up the electronics

(6) Discuss the factors we should consider while deciding to build an IOT device

- processor speed

- Ram

- networking

- power consumption

principles to consider in physical size

(7) Write short note on Raspberry Pi

Unit III

① Explain sketch, iterate and explore in prototyping

② Explain the (non-digital) methods of prototyping

③ Write short note of laser cutting

④ Discuss the methods of 3D printing

⑤ Explain CNC mining

⑥ What are different standards that must be considered while implementing APIs

Unit IV

① Explain the different types of memory

② What are the concerns regarding performance and battery life while writing code for embedded system

③ Explain business model canvas

④ What is debugging an IOT device

- (5) Explain lean Startups - If anything
- (6) Explain Crowd funding
- (7) Explain term Venture Capital
- (8) IOT as blend of past 30 years

## Unit V

- (1) Explain the steps of manufacturing PCBs
- (2) Explain in detail the process of designing the kits
- (3) Short notes on mass producing fixture case and other fixtures
- (4) Discuss the issue in scaling up the software for large scale IOT devices
- (5) Discuss the environmental issues associated with IOT devices
- (6) What is Crowdsourcing.

process to design successfully - If anything  
 democratic participation seems to be bad  
 not always useful and will result in loss  
 message becomes  
 example where situation can be  
 solved by IoT and crowdsourcing

# Important Questions

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AWP / AWD

II sem

Unit 10 Q17 also fail IIQ and Q18 (3)

① Explain .Net framework architecture  
with diagram (3)

Ans. ~~Similar~~ ( )

② Loops → for loop (3)

↳ for each (3)

→ while loop (3)

→ do while (3)

Explanation (3)

Syntax (3)

Program - output (3)

③ Array → types → syntax → program (3)

Ans. ~~Ans. array, array, array, array~~ (3)

↳ properties & methods (3)

④ String functions (name, syntax, program - output) (3)

⑤ Math functions (name, syntax, program - output) (3)

⑥ Explain delegates with its types (3)

⑦ Constructors and its types (3)

⑧ Inheritance and its types (diagram) (3)

⑨ Explain namespaces and assembly (3)

⑩ Define static class (static method, (3))

Sealed class and access specifier (3)

↳ final, private, protected (3)



unit II

## Unit II

### Form Controls

- ① Explain all list controls with properties

- Drop down list
  - List box
  - Radio button
  - Check box
  - Bulleted list
- Explanation  
code  
output

- ② Explain Validation Controls

RequiredFieldValidator → RequiredFieldValidator → types, explanation, program

- ③ Explain AdRotator Control

- ④ Explain MultiView Control

- ⑤ Explain Navigation Controls

- ⑥ Explain ASP .Net Server Controls

- ⑦ Explain Navigation Controls

- ⑧ Calendars Control

- ⑨ User Control

- ⑩ File Upload Control

## Unit III

- ① What is Error? types of error
- ② What is Exception handling? explain exception handing keywords (if any)
- ③ Write a code to throw your own exception
- ④ Explain Master page with example
- ⑤ Explain Themes with example
- ⑥ Explain Client side & Server side state management with its types

- ⑦ ViewState
  - ⑧ Cookies
  - ⑨ Hidden Fields
  - ⑩ Query String
  - ⑪ Session
- } Explanation  
types (if any)  
program

## Unit IV

- ① Explain Grid View Control
- ② Explain Form View Control
- ③ Explain Data Provider Model with diagram
- ④ Connected and Disconnected Architecture

⑤ Explain Data Binding

III Sujit

⑥ Explain Data Source Control

Unit II  
Data binding

⑦ Explain wAJAX

② Explain ASP.NET security

Explains the various security measures

Software security & Database security

Software

Encryption

Authorization

Access control

Message

Information

(User) input

Output

Access

Control

Security

Message

III Sujit

Software security & Database security

# IMPORTANT

## Questions

III sem

AIM and its applications

Domain of search space model

### Unit I

spelunking no for state flow

(1) Explain PFA's final board

(2) Explain Turing Test

(3) What is AI and its applications

(4) What are Agents? Working of agent

(5) Nature of environment (question can

be like this or would be of any

specific environment type, in such case  
write detail explanation with example)

(6) Utility Based Agent

advantages and explanation

(7) Goal Based Agent

advantages / disadvantages

WIA to forming board

### Unit II

JOF in search

(1) Difference between DFS and BFS

(2) Explain AO\* algorithm

II sem

(3) Hill climbing algorithm

(4) Formulating problem (vacuum cleaner)

(5) explain Genetic algorithm

(Note : All the algorithms are important)

QUESTIONUnit III

① Explain Min Max Algorithm

② Explain Stochastic Search Algorithm

I Satisf

③ Write Short note on knowledge

Based Agent EAET implies ④

first agent makes

④ Short note on Wumpus World

from problem solving to world ⑤

and ⑤ Propositional logic to world ⑥

⑥ Conditional probability & Bayes theorem

and do in this framework ⑦

Unit IV now forward backward unification

① Explain ANN based problem ②

② Explain Unification

③ Explain Forward & backward ④

especially backtracking

④ Merits and Demerits of ANN

⑤ Sums on FOL

and ⑥ associated consistency ⑦

Unit V

radicals + OA rules ⑧

radicals cancel like ⑨

(cancel common) cancel consistency ⑩

radicals cancel cancel ⑪

(cancel common) cancel cancel ⑫