

Topics for Software Developer and Mobile Application Developer (For Domain Knowledge Test)	
Sr. No.	Topics
1.	ASP .Net/ Java/ PHP
2.	Programming in C/C++
3.	Internet, HTML/DHTML
4.	System Analysis & Design
5.	SQL Server
6.	DBMS
7.	Project Management
8.	Linux/Unix

Topics for SA (System Analyst) (For Domain Knowledge Test)	
Sr. No.	Topics
1.	ASP .Net
2.	Visual Basic
3.	JAVA
4.	Programming in C/C++
5.	Windows Server
6.	Internet, HTML/DHTML
7.	Oracle
8.	Networking
9.	System Analysis & Design
10.	SQL Server
11.	Operating System
12.	DBMS
13.	Project Management
14.	Linux/Unix
15.	PHP

Topics for Programmer (For Domain Knowledge Test)	
Sr. No.	Topics
1.	ASP .Net
2.	Visual Basic
3.	JAVA
4.	Programming in C/C++
5.	Windows Server

6.	Internet, HTML/DHTML
7.	Oracle
8.	Networking
9.	System Analysis & Design
10.	SQL Server
11.	Operating System
12.	DBMS
13.	Windows & Computer Fundamental
14.	Linux/Unix
15.	PHP

Topics for Junior Programmer (For Domain Knowledge Test)	
Sr. No.	Topics
1.	ASP .Net
2.	Visual Basic
3.	JAVA
4.	Programming in C/C++
5.	MS Office
6.	Internet, HTML/DHTML
7.	Windows & Computer Fundamentals
8.	Networking
9.	System Analysis & Design
10.	Hardware concept
11.	Operating System
12.	DBMS
13.	PHP

Topics for NetworkingEngineer (For Domain Knowledge Test)	
Sr. No.	Topics
1.	Hardware Concept
2	Windows Server
3.	Internet, HTML/DHTML
4.	Oracle
5.	Networking
6.	System Analysis & Design
7.	SQL Server
8.	Operating System
9.	DBMS
10.	Linux/Unix
11.	Windows & Computer Fundamentals

**Topics for Networking Assistant
(For Domain Knowledge Test)**

Sr. No.	Topics
1.	Hardware Concept
2.	Windows Server
3.	Internet, HTML/DHTML
4.	MS Office
5.	Networking
6.	Operating System
7.	Linux/Unix
8.	Windows & Computer Fundamentals

Category: Software Developer and Mobile Application Developer/ System Analyst

ABC company records data relating to insurance agents and customers. Create a database and GUI using **MVC architecture** to save data relating to the Agents and Customers. The complete details relating to the policies is to be captured like policy no., date, customer name, policy amount, commission earned by the Agent. The commission percentage for agent is fixed different type of schemes and to be calculated automatically, as per the Scheme selected by the Customer and the Policy amount.

Show reports regarding detail of Policies done by agents between two dates and detail of commission earned by agents.

Category: Programmer

ABC company records data relating to insurance agents and customers. Following are the type of schemes available and commission percentage, schemewise, for agent:

Name of the Scheme	Commission to Agent
1. A	2%
2. B	2.7%
3. C	3.3%

1. Create an application using **MVC architecture** to save data relating to the agents and customers using the following database tables:-

a. **Agent_Master**

Field Name	DataType	Remarks
Agent_No	Integer	Primary Key (AutoNumber)
Agent_Name	Varchar	

b. **Scheme_Master**

Field Name	DataType	Remarks
Scheme_no.	Integer	Primary Key (AutoNumber)
Scheme_Name	Varchar	
Commission	Decimal	As per detail mentioned above

c. **Policy_Details**

Field Name	DataType	Remarks
Policy_No	Integer	Primary Key (AutoNumber)
Date1	Date	
Scheme_no.	Integer	Foreign Key
Agent_No	Integer	Foreign Key
CustomerName	Varchar	
Policy Amount	Integer	
Commission	Decimal	To be calculated automatically from Scheme Master

2. Make at least 5 manual entries in master table Agent_Master and 3 entries in Scheme_Master.
3. Create a GUI to save data in Policy_Details table as per the conditions mentioned above. Use dropdownlist to display Scheme and Agent.
4. Reports:
 - a. The detail of Policies done by agents:

Agent	Scheme	No. of policies.

- a. The detail of commission earned by agents:

Agent	Commission

Note: Incorporate proper Checks & Validations.

Category: Junior Programmer

1. Create an application using **MVC architecture** to save data of the insurance agents and customers of ABC Company using the following database tables:-

a. Agent_Master

Field Name	DataType	Remarks
Agent_No	Integer	Primary Key (AutoNumber)
Agent_Name	Varchar	

d. Policy_Details

Field Name	DataType	Remarks
Policy_No	Integer	Primary Key (AutoNumber)
Agent_No	Integer	Foreign Key
PolicyDate	Date	
CustomerName	Varchar	
PolicyAmount	Integer	
Commission	Decimal	To be calculated automatically

2. Make at least 5 manual entries in master table Agent_Master.

3. Create a GUI to save data in Policy_Details table as per the conditions mentioned below:-

Policy Amount Commission to Agent

<10000 2%

>10000 2.5%

Use dropdownlist to display Agents.

4. Display Report as below:

Agent	Policy Date	Policy Amount	Commission

Note: Incorporate proper Checks & Validations.

Sample /Brief Note for Practical Paper of Networking Engineer

Time: 60 Min

Practical Paper of Networking Engineer is meant to assess the capability of the candidates in terms of hands on knowledge on the following:-

- (i) Computers Hardware Structure
- (ii) Networking Designing
- (iii) Networking Components
- (iv) Hardware (Computers, Printers, UPS, Servers, IT Products etc) maintenance

- (i) The candidate knowledge will be tested on structural aspects of Hardware.
 - a) Functioning of various parts of computers
 - b) Assembling of Computers
 - c) Identification, Installation & Inspection of Hardware Components
- (ii) Networking Designing: - Designing of networks like LAN, WAN etc. both technological aspects and installation of networking components required for the network.
- (iii) The identification, installation, inspection and usage of various networking components like type of switches, routers, UTP/STP/fiber cable, patch panel.
- (iv) Hardware maintenance issues like MTBF, product life identification & rectification faults etc.

Sample /Brief Note for practical Paper of Networking Assistant

Time: 60 Min

Practical Paper of Networking Assistant is meant to assess the capability of the candidates in terms of hands on knowledge on the following:

- (i) Computers Hardware Structure
- (ii) Networking Components
- (iii) Hardware (Computers, Printers, UPS, Servers, IT Products maintenance etc.)

- (i) The candidate knowledge will be tested on structural aspects of:
 - a) Functioning of various parts of computers
 - b) Assembling of computers
 - c) Identification Installation & Inspection of hardware components
- (ii) The identification, installation, inspection and usage of various networking components like type of switches, routers, UTP/STP/fiber cable, patch panel.
- (iii) Hardware maintenance issues like identification & rectification faults for Computers, Printers, UPS systems etc.