

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 Junior Software 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.	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 System Analyst (Networking) (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

Topics for Programmer/Sr. 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 Networking Engineer  
(For Domain Knowledge Test)**

<b>Sr. No.</b>	<b>Topics</b>
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)**

<b>Sr. No.</b>	<b>Topics</b>
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

**Topics for Web Designer  
(For Domain Knowledge Test)**

<b>Sr. No.</b>	<b>Topics</b>
1.	CorelDraw
2.	Dreamweaver
3.	Flash
4.	FrontPage
5.	Photoshop
6.	PageMaker
7.	Internet, HTML/DHTML
8.	Internet, HTML/DHTML

Topics for Data Entry Operator (For Domain Knowledge Test)	
Sr. No.	Topics
1.	MS Office
2.	Internet, HTML/DHTML
3.	Windows & Computer Fundamentals
4.	Networking

Topics for DTP Operator (For Domain Knowledge Test)	
Sr. No.	Topics
1.	Corel Draw
2.	Dreamweaver
3.	Flash
4.	FrontPage
5.	Photoshop
6.	PageMaker
7.	Windows & Computer Fundamentals
8.	Internet, HTML/DHTML
9.	Operating System
10.	MS Office

**Category: Software Developer and Mobile Application Developer/ System Analyst**

ABC company records data relating to insurance agents and customers. Create a database and GUI 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.

## Sample /Brief Note for Practical Paper of System Analyst (Networking)

**Time: 60 Min**

Practical Paper (consisting of Multiple choice & descriptive questions) is meant to assess the capability of the candidates in terms of hands on knowledge on the following:

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

- (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) Hardware maintenance issues like MTBF, product life identification & rectification faults, Operating System Installation & Configuration
- (iii) Networking Designing: - Designing of networks like LAN, WAN etc. both technological aspects and installation of networking components required for the network.
- (iv) The identification, installation, inspection and usage of various networking components like type of switches, routers, UTP/STP/fiber cable, patch panel.
- (v) Network Configuration, Server Configuration, VLANs creation, Troubleshooting of Network, Linux server, windows server, Router & Switches

**Category:Junior Software Developer/Sr.Programmer/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 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 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.**



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
- (vi) 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
- (vii) 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.

**Category: Web Designer**

Design a responsive web page template for World Environment Week with Theme 'Beat Plastic Pollution' using graphics, font files, drop shadow and alignment types.

Images/Logo are provided in a folder which are to be used in the webpage template.

Use following Links and Navigations

1. Governor Message
2. About Environment
3. Green Suggestions
4. World Environment Day
5. Beat Plastic Pollution
6. Whom to Contact
7. CSR

Use the below text for content Page i.e. open on the above link

The United Nations designated 5<sup>th</sup> June as World Environment Day to highlight the protection and health of the environment which is a major issue and affects the well-being of people and economic development throughout the world. The celebration of this day provides us with an opportunity to broaden the basis for an enlightened opinion and responsible conduct by individuals, enterprises and communities in preserving and enhancing the environment.

**Category: DTP Operator**

Design a logo, invitation card & pamphlet on behalf of Hartron International Gita Mahotsav 2020 Date 25.12.2020 timing 9.AM , Venue:- Dushera Ground Sector-5, Panchkula, Chief Guest :- Sh. Manohar Lal Khattar CM Haryana, Discussions and seminars by eminent scholars and Hindu priests to throw light upon the various facets of the holy book and its perennial influence on humankind for generations. Stage play and Gita chanting competitions are held for kids to show their talents as a way to encourage their interest in reading Gita. leaflets, pamphlets and books containing the essence of Gita are distributed to the public.

1. Design a Logo.
2. Design Standard Size Template of invitation card with proper invitation text.
3. Design a pamphlet with proper invitation text.
4. Using graphics, leading percentage, font files, vector fonts, drop shadow, hyphenation and alignment types.
5. Organized by:- Invite MD Hartron, District Administration, North Zone Cultural Centre, Information and Public Relations Department, Haryana.
6. Photoshop/Corel Draw.