

Non Technical			
Post Code	Post Name	Domain Required	Topics
01	System Analyst	Computer Science Engineering	Day to day Scenarios
			Web technology- Dot net
			Web technology- ASP Dot net
			Computer Architecture
			Data Structures
			Database
			Digital Electronics
			Networking
			OS Fundamentals
			OSI Layer
			Prgramming language/C++
Prgramming language/OO			
02	Assistant Director(Security)	Security	Threat Perception to Power Plants
			General Knowledge to include Police Organisations, Defence Services, methods of liaison and various intelligence agencies.
			Access Control
			Fire Fighting
			Incident Management
			Information Security
			Intelligence collection
			Executive Protection
			Security Documentation
			Parking and Traffic control
			Disaster Management
Electronic security			
03	Dy. Chief Fire Officer	Fire Engineering	Fire pumps
			Access Control
			Fire Fighting
			Disaster Management
			Inspection, maintenance and testing
			Acts and rules
			Fire Tenders
			Fixed Installation
			Fire Equipments
			Maintenance of fire systems
04	Fire Officer	Fire Engineering	Fire Protection
			Access Control
			Fire Fighting
			Disaster Management
			Fixed Installation
			Inspection, maintenance and testing
Acts and rules			

Post Code	Post Name	Domain Required	Topics
05	Security Officer	Security Engineering	Access Control
			Disaster Management
			Equipment Security
			Fire Fighting
			Incident Management
			Information Security
			Intelligence collection
			Perimeter security
			Security Documentation
			Surveillance
06	Asst. Personal Officer	MBA HR	Business Ethics, Corporate Governance & Social Res
			Collective Bargaining and Negotiations process
			Conflict Management
			Corporate Evolution and Strategic Management
			Emotional Intelligence and Managerial Effectiveness
			Grievance Management
			Human Resource Management
			Human Resource Planning
			Management of Change and Organization Effectiveness
			Management of Compensations and Benefits
			Management Process and Organizational Behavior
			Recruitment & Selection
			Rewards & Recognition
			Training and Development
			Transactional Analysis
			Office Administration
Organisation Structure			
H.R. Acts			
07	Accounts Officer	MBA Finance	Cost & Management Accounting
			Financial Accounting
			Financial Management
			General
			Accounting standard application in power industry
			Income tax provision
			VAT, Excise, Service Tax applicability
			Cost Audit specifically
			IFRS - International Financial Reporting Standard
			Computer Architecture
08	Programmer	Computer Science Engineering	Data Structures
			Database
			Digital Electronics
			Networking
			OS Fundamentals
			OSI Layer
			Programming language/C++
			Programming language/OO
			Day to day scenarios
			Web technology - Dot net

Post Code	Post Name	Domain Required	Topics
09	Dy. Fire Officer	Fire Engineering	Fire Protection
			Access Control
			Fire Fighting
			Disaster Management
			Inspection, maintenance and testing
			Acts and rules
			Fixed Installation
			Inspection, maintenance and testing
			Acts and rules
10	Asst. Welfare Officer	Industrial Relations	Industrial Relation
			Industrial Relations/Dispute Act
			Industrial Relations/Factory Act
			Industrial Relations/Industrial Payment Wages Act
			Industrial Relations/Labour Law at industries
			Emotional Intelligence and Managerial Effectiveness
			Human Resource Management
			Management Process and Organizational Behavior
			C.S.R.
			Workman Compensation
			Training and Development
11	Asst Programmer	Computer Science Engineering	Computer Architecture
			Data Structures
			Web technology - Dot net
			Database
			Digital Electronics
			Networking
			OS Fundamentals
			OSI Layer
			Prgramming language/C++
			Prgramming language/OO
			12
Industrial Relations			
Industrial Relations/ Labour Laws at Industries			
Industrial Relations/Disputes Act			
Industrial Relations/Factories Act			
Industrial Relations/Industrial Payments/Wages Act			
Organizational Behaviour			
Recruitment, Appraisal and Compensation			
Team Development			
Training & Development			
Financial Management			
Office Administration			
Organisation Structure			
H.R. Acts			
13	Junior Fire Officer	Fire Engineering	Fire Protection
			Fixed Installation
			Inspection, maintenance and testing
			Acts and rules

Post Code	Post Name	Domain Required	Topics
14	Junior Security Officer	Security	Psychometric Tests
			IQ Test (Intense level)
			General Knowledge & Current Affairs
			Computer Literacy & Handling (MS Office)
15	Stenographer(Marathi)	Abilities	English Language
			Marathi
			Mathematical Abilities
16	Stenotypist(Marathi)	Abilities	GK
			Marathi
			Mathematical Abilities
17	Fireman	Fire Fighting	GK
			Fire Alarm System
			Fixed Fire Protection System Foam
			Fixed Fire Protection System Introduction
			Fixed Fire Protection System Risers
			Fixed Fire Protection System Sprinklers
			Fixed Fire Protection Hydrant system
Fixed Fire Protectn Syst Carbon Dioxide , FM200,DC			

Post Code 1: System Analyst

- 1) The taskbar is accidentally moved to the top of the screen. How will you relocate it to its default position?
- A) Select taskbar and choose the default taskbar position
 - B) Choose the show taskbar from the advance tab of the display properties
 - C) Click and drag the taskbar to desired location
 - D) Delete the taskbar from the top and create the same in the default location
- 2) You have uninstalled a program in windows. The program still shows up in the Add/Remove programs list. How can you remove the program from the list?
- A) Right click on the program and select remove.
 - B) Restart system in safe mode and delete the program.
 - C) Edit the config.sys file and remove the entry.
 - D) Edit the system registry.
- 3) What is the significance of in-memory cache?
- A) Instead of multiple recompilation, native code will be there in in-memory cache
 - B) Multiple recompilation
 - C) Automatic multiple recompilation
 - D) Native code is recompiled from the cache
- 4) The digital signature number of an assembly will be stored in which of the following?
- A) Type Metadata
 - B) Module
 - C) Assembly manifest
 - D) MSIL code
- 5) Which of the following statements are correct?
- I. Attempts to retrieve the value of expired item will cause an exception.
 - II. ASP.Net allows to define the validity of a cached item based on an external file or directory or on another cached item.
 - III. If the item with the associated dependency changes, the cached item is invalidated and removed from the cache.
- A) Only I and II are correct
 - B) Only I and III are correct
 - C) Only II and III are correct
 - D) I, II and III are correct

Post code 3: Dy. Chief fire officer

1) Which of the following is a pressure maintenance pump?

- A) Centrifugal Pump
- B) Jockey Pump
- C) Rotary Pump
- D) Positive displacement Pump

2) Which of the following driver prohibited for use to drive a Centrifugal Fire Pump?

- A) Electric Motor
- B) Diesel Engine
- C) Spark ignited IC Engine
- D) Steam Turbine

3) What device is used in a fire tender to transmit the power from engine to water pump?

- A) Gear
- B) PTO (Power Take Off)
- C) Clutch
- D) Brake

4) What is the detector that employs principle of light scattering by smoke?

- A) Optical smoke detector
- B) Optical heat detector
- C) Optical gas
- D) Ionization smoke detector

5) Which of the following is a critical factor in deciding the type of sprinkler nozzle in water spray system?

- A) K Factor
- B) G Factor
- C) II Factor
- D) M Factor

Post code 4: Fire Officer

1) What is the fourth element of Fire Tetrahedron besides Fuel, heat and oxygen?

- A) Chain Reaction
- B) Air
- C) Nitrogen
- D) Carbon Di Oxide

2) The temperature at which a continuous flow of vapor bubbles occur in a liquid being heated in an open container is termed as?

- A) Pour Point
- B) Burning Point
- C) Flash Point
- D) Boiling Point

3) What is the maximum spacing interval in meters between 2 hydrants for a light hazard occupancy?

- A) 30
- B) 45
- C) 60
- D) 75

4) What is the minimum internal diameter in mm of a dry riser?

- A) 100
- B) 150
- C) 200
- D) 250

5) As per Petroleum Rules what is the area classification if flammable mixture is continuously present?

- A) Zone 0
- B) Zone 1
- C) Zone 2
- D) Zone 3

Post Code 6: Asst. Personal Officer

1) What are the five components of emotional intelligence?

- A) Self Management, Self awareness, Social awareness, Social Skills, Self motivation
- B) Special skills, Self Concept, Cognitive skills, Conceptual skills, Self motivation
- C) Social acceptance, Social adaptability, Social awareness, Social Skills, Self motivation
- D) Self inertia, Self efficacy, Locus of control, Self awareness, Self motivation

2) What are the typical products of the job analysis process?

- A) Work standards
- B) Job evaluation
- C) Work schedules
- D) Job descriptions and job specifications

3) Which method predicts the internal supply of labour in future?

- A) Delphi tool
- B) Markov analysis
- C) Multiple regression
- D) Linear programming

4) Having access to canteen facilities' belongs to which category of benefit?

- A) Incentive
- B) Fringe benefit
- C) Perquisite
- D) Non monetary benefits

5) Which is in the CORRECT sequence of hierarchy of wages?

- A) Minimum wage, Fair wage, Living wage
- B) Fair wage, Minimum wage, Living wage
- C) Living wage, Minimum wage, Fair wage
- D) Minimum wage, Living wage, Fair wage

Post Code 7: Accounts Officer

- 1) What is the breakeven point in units, if a product's selling price is Rs.100, fixed costs are Rs.8,000, unit variable costs are Rs.20 and operating income is Rs.32,000?
- A) 100 units
B) 300 units
C) 400 units
D) 500 units
- 2) Which of the following would result in an increase in income under the cash basis but not an increase in income under the accrual basis?
- A) The credit sale of inventory at a sale price in excess of the inventory's cost
B) The return of defective inventory purchased on account to a supplier where a full credit was given
C) The cash collection from a credit customer
D) The cash sale of inventory at a sale price in excess of the inventory's cost
- 3) What is "Shareholder wealth" in a Company?
- A) The book value of the company's assets less the book value of its liabilities
B) The number of people employed in the company.
C) The market price per share of the company's common stock
D) The amount of salary paid to its employees
- 4) What stage of the industry life cycle is likely to be of most interest to the majority of investors?
- A) Pioneering stage
B) Expansion stage
C) Maturity stage
D) Declining stage
- 5) What is the shape of the demand curve in perfect market, when X-axis represents quantity and Y-axis represents price?
- A) Horizontal to the X-axis
B) Vertical to the X-Axis
C) Horizontal to the Y-axis
D) It goes through the origin

Post Code 8: Programmer

```

1) main()
{
    int att[5][5],i,j;
    int *p;
    p=&att[0][0];
    for (i=0;i< 5;i++)
    for (j=0;j< 5;j++)
    att[i][j] = i+j;
    printf ("%d\t", sizeof(att));
    i=2;j=3;
    printf( "%d", *(p+i+j+++i+i));
}

```

What is the output of the given code?

- A) 1 50
- B) 1 5
- C) 50 5
- D) 50 1

```

2) #include <iostream.h>
#include <conio.h>
main()
{
    int i=15;
    int &p=i;
    clrscr();
    cout << &p << endl << &i;
}

```

What is the result?

- A) Display address of p
- B) Display 1515
- C) Display address of p twice
- D) Run time time

3) The address field of a frame in HDLC protocol contains the address of which station?

- A) Primary
- B) Secondary
- C) Tertiary
- D) Supervisory

4) Suppose a processor does not have any stack pointer register. Which of the following statements is TRUE?

- A) It can not have subroutine call instruction
- B) It can have subroutine call instruction, but no nested subroutine calls
- C) Nested subroutines calls are possible, but interrupts are not
- D) All sequences of subroutines calls and interrupts are possible

5) In the OSI model, which layer functions as a liaison between user support layers and network support layers?

- A) Network layer
- B) Physical layer
- C) Transport layer
- D) Session layer

Post code 9: Dy. Fire Officer

1) What is the phenomenon of sudden and violent release of energy accompanied by generation of pressure waves and loud noise called as?

- A) UCEVE
- B) Boil Over
- C) Explosion
- D) Slop Over

2) What are nozzles used for High Velocity Water Spray systems are called as?

- A) Projectors
- B) Sprayers
- C) Sprinklers
- D) Monitors

3) What is the BIS recommended sample size for a lot of 500 DCP Extinguishers?

- A) 80
- B) 70
- C) 60
- D) 50

4) What should be the minimum fire resistance in hours of roof construction of a fire wall of Type A Building?

- A) 1
- B) 2
- C) 3
- D) 4

5) What shall be the minimum diameter in mm of a down comer?

- A) 50
- B) 100
- C) 150
- D) 200

Post Code 11: Assistant Programmer

1) If a class B network on the internet has a subnet mask of 255.255.240.0, what is the number of hosts per subnet?

- A) 5094
- B) 4094
- C) 3094
- D) 1024

2) #include< iostream.h>

#include< conio.h>

main()

```
{  
    int i=5;  
    clrscr();  
    cout << "HELLO" << (i<<2) << "HI";  
}
```

What is the result?

- A) HI5HELLO
- B) HELLO20HI
- C) HELLO5HI
- D) HI20HELLO

3) Which of the following sets of components are sufficient to implement any arbitrary Boolean function?

- A) XOR gates, NOT gates
- B) 2 to 1 multiplexers
- C) AND gates, XOR gates
- D) Three input gates that output $(A.B)+C$ for the inputs A,B, and C

4) What is the result of the expression $B \text{ AND } /B$, if B and its inverse $/B$ are the inputs?

- A) B
- B) $/B$
- C) 1
- D) 0

5) Which of the following network devices belong to the OSI data link layer (layer two)?

- A) router
- B) VPN
- C) bridge
- D) switch

Post Code 12: Establishment Superintendent

1) What is the role of the Securities and Exchange Commission?

- A) Analyze corporate financial statements and issue ratings based on risk.
- B) Recommend top-quality securities to potential investors.
- C) Ensure that investors have access to full and fair information concerning investments.
- D) Ensure that financial securities sell at the highest possible market price, in spite of their individual risk/return characteristics.

2) The capital asset pricing model (CAPM) involves the relationship between which of the following?

- A) Expected return and unsystematic risk.
- B) Expected return and systematic risk.
- C) Expected return and difference between systematic and unsystematic risk.
- D) Expected return and total risk.

3) What is the process of settling disputes through third party involvement to reconcile the views of disputants and bring them to an agreement?

- A) Adjudication
- B) Conciliation
- C) Arbitration
- D) Consultation

4) How much leave can a worker avail in a calendar year?

- A) One day for every 15 days of work performed by an adult and one day for every 20 days in case of a child
- B) One day for every 20 days of work performed by an adult and one day for every 15 days in case of a child
- C) One day for every 30 days of work in case of adult as well as child
- D) One day for every 20 days of work performed by an adult as well as a child

5) Why was Factories Act amended in 1987?

- A) To prohibit employment of children below 14 years in factories
- B) To restrict number of working hours to 8
- C) To provide safeguards in the use and handling of hazardous substances in factories
- D) To include welfare, cleanliness, health, overtime payments to workers

Post code 13: Junior Fire Officer

1) Which of the following method is based on limiting rise of temperature?

- A) Starvation
- B) Dewatering
- C) Cooling
- D) Smothering

2) An inbuilt tachometer shall be provided for a engine of the fire pump to measure?

- A) Capacity
- B) RPM
- C) LPM
- D) Suction

3) What is the TAC recommended frequency in years of painting of the fire installation?

- A) Every year
- B) Once in 2 years
- C) Every 3 years
- D) Every 4 years

4) Which of the following fire requires alcohol resistant foam compound?

- A) MS (Motor Spirit)
- B) Kerosene
- C) Diesel
- D) Methanol

5) Wet riser is required for a business building of height more than?

- A) 40 meters
- B) 30 meters
- C) 20 meters
- D) 10 meters

Post Code 15 and 16: Stenographer and Steno typist

1) Vscy ;k 'kCnkyk ejkBh lk;kZ;h 'kCn

- A) ist
- B) est
- C) pkSjax
- D) pkSjaxt

2) iapke`rkc/;s ulysh oLrw 'kks/kk

- A) e/k
- B) ngh
- C) e/k
- D) lk|kj

3) [kkyhy\Wdh dka.kR;k 'kCnkp vFka ^dikG* ukgh-

- A) Hkky
- B) yykV
- C) fu<G
- D) 'khj

4) lq/kkj jkst vdjk oktrk ¼'kkGk½ tkrs- %% dallrhy 'kCnkps ;ksX; foHkDrh#p lkaxk-

- A) 'kkGspk
- B) 'kkGsgwu
- C) 'kkGsy.t
- D) 'kkGsr

5) vkck iq]ksxkeh fopkj kps gksrs- %% v/kksjst[kr 'kCnkaps fo#/nkFkhZ okijk-

- A) v/kksxkeh
- B) m/oZ>keh
- C) lukruh
- D) mnklh>

1) A can do a piece of work in 30 days while B can do it in 40 days. In how many days can A and B do it together

- A) 70 Days
- B) 35 Days
- C) $27 \frac{1}{7}$ Days
- D) $17 \frac{1}{7}$ Days

2) Four boys have been hired to pluck mangoes from 280 similar trees bearing same number of fruits. They work for 7 hours a day and have covered 84 trees in 3 days. 3 more boys are now hired. In how many 7- hour days will all the trees be harvested?

- A) 8
- B) 6
- C) 4
- D) 2

3) Two hours after a Goods train leaves Bangalore, a Passenger train leaves the same station travelling in the same direction at an average speed of 60 kilometres per hour. After travelling for four hours, the passenger train overtakes the Goods train. The average speed of the Goods train is?

- A) 30 km/hr
- B) 40 km/hr
- C) 58 km/hr
- D) 60 km/hr

4) A car can travel 30 km/hour uphill and 60 km/hour downhill. It travels 100 km uphill and 40 km downhill. What is the average speed of the car?

- A) 35 km/hour
- B) 36 km/hour
- C) 39 km/hour
- D) 42 km/hour

5) Same and Ram together have Rs. 100. After giving Ram Rs. 10, Sham finds that he has Rs 4 more than $\frac{1}{5}$ the amount Ram now has. How much does Sham now have?

- A) Rs. 18.67
- B) Rs. 20
- C) Rs. 21
- D) Rs. 27.50

1) Who is the only Indian to win a Nobel Peace Prize?

- A) Mother Teresa
- B) Mahatma Gandhi
- C) Indira Gandhi
- D) Tagore

2) Which Indian author received the Booker Prize for 'The God of Small Things'?

- A) Rabindranath Tagore
- B) Arundhati Roy
- C) Salman Rushdie
- D) Amartya Sen

3) Which Indian City is popularly known as "The Orange City"?

- A) Secunderabad
- B) Nagpur
- C) Jaipur
- D) Vijaypur

Post Code 17: Fire man

1) Which of the following is a fixed Fire Protection System?

- A) DCP Extinguisher
- B) CO₂ Extinguisher
- C) Halon Extinguisher
- D) Deluge System

2) Which Indian standard specifies fixed fire protection system requirements for oil industry?

- A) OISD-116
- B) OISD-118
- C) OISD-105
- D) OISD-145

3) In line with OISD, what should be the minimum distance of hydrant from a storage tank?

- A) 15 Meter
- B) 25 Meter
- C) 10 Meter
- D) 20 Meter

4) What should be added to riser system in case the equipments protected are exposed to extremely cold temperatures?

- A) Anti coolant
- B) Anti freeze concentrate
- C) Lubricants
- D) Warming Liquids

5) What should be the minimum quantity of AFFF Type foam stored totally as per OISD Standard?

- A) 0.7 %
- B) 0.8 %
- C) 0.85 %
- D) 0.9 %