

Company Name : BPCL

Suggestions :

BPCL has come for the management trainee post .

There was no online round for interview. Interviews were based on resume shortlisting.

The company tests you in terms of core knowledge as well as your personality meaning your ability to understand and tackle any scenario.

#Just focus on the basics for the core subjects while you study them and you should be good to go.

#The questions were mostly applications based pertaining to the industry and some basic questions from the course.

#try to implement theory in practical aspects. This will help demonstrate your capabilities to potential employers.

#focus on the projects you have listed on your resume(brief discussion will be there on your project and related to that subject)

#be through concept of fluid mechanics, Be practical with ic engine, CWF, MTM & SOM.

OT questions:

There was no Online round for interview.

Interview Questions:

Interview was conducted in 2 rounds.

1. Technical Round-

This round was mainly based on Core subjects knowledge which are taught in 2nd and 3rd year. The questions were mostly applications based pertaining to the industry and some basic questions from the course.

2. HR (Human resource) -

This round was based on the personality, achievements and most of questions asked about the projects which were written in Resume .

Questions asked in Technical Round:

1. What is the difference between entropy and enthalpy and how would you explain that to a non-engineer friend?
2. Explain the process of filling petrol in your car at a petrol pump as a mechanical engineer.
3. In an industrial pipeline, how would you detect a fault in normal operation?
4. Suppose you have got to do non-destructive testing, what are the options?

5. How suspension bridges are designed?
6. Failures in concrete?
7. What type of footing is used in bridges?
8. What is raft footing?
9. Design rainwater system for Bhubaneswar?
10. How waste water is treated?
11. Describe indian architectural style?
12. In what fashion is stone carving done in India?
13. How curves are designed in highways?
14. Testing of concrete?"
- 15."How do you design a smooth curve(curve that takes you into the bank from road) at petrol station. What factors will you consider?
16. Why do we use concrete slabs near the pumps?
17. Design waste water treatment plant for your campus
18. California bearing ratio ?
19. What tests we conduct on soils?
20. Friction angle and it's significance?
21. How does trickling filter works?
22. What is black cotton soil?

23. Aspect of bridge design
24. Structural design detailing
25. wind load prevention
26. How to overcome with Honeycombing
27. Earthquake loading aspects
28. Burj Khalifa foundation designing
29. Types of foundation used
30. Foundation used in type of clayey soil
31. Type of soil at ur locality
32. grades of cement
33. Flexible and rigid pavement
34. what do u understand by green roads
35. Information about national highways
36. WSM vs LSM
37. types of cracks in concrete
38. What is use of steel table?
39. How to design a bridge?
40. What's the difference between steel bridge and RCC Bridge?
41. How will you find or what are the parameters on which you will decide you will give a steel bridge or RCC Bridge?
42. Which IS code is used for RCC design and Steel design with year?
And what does that year signifies?
43. What is TMT bar?
44. What are the sections given in steel table?
45. What are the loads you will consider while designing the bridge? "
46. Design a pipe network system for IIT BBS water supply.
47. How to design a water tank also tell the design checks.
48. What do you know about pumps. What are the different types of pumps.
49. Principal of surveying, difference between surveying and remote sensing.
50. Minimum diameter of Stirrups in beam and column.
51. Design a tunnel steps by step at some locations.
52. different types of pumps available?
53. which type of pump is used for what purpose?
54. load bearing capacity of soil definition
55. compression strength of concrete?
56. what is deep foundation and shallow foundation?

57. design a water tank?"
58. what are the types of foundation
59. How to design a building in Uttarakhand region. What factors u will consider
60. what is the process of fixing tiles called
61. what is floor ratio
62. what is carpet area
63. when to opt for well foundation
64. what is ratio of m20 concrete
65. type of roof
66. material of tile
67. normal dimensions of tile
68. about earthquake pattern
69. what is Bernoulli theorem
70. how u will place the tank under ground in a petrol pump if the soil is undergoing settlement?
71. about rigid pavement and flexible pavement "
72. Slump test
73. Types of pumps
74. Bernoullis theorem
75. Code for steel structures
76. Why a concrete bed is used below petrolium tanks?
77. Design a water plant in our camps (mainly how will you pump water)
78. What is shear slump?
79. What is pre stressed concrete?
80. What is M20?"
81. What is Plane Table surveying, Theodilite , bench mark , Mean sea level, contour map uses
82. Design a petrol bunk entry and exit
83. What is the value of Tensile strength of concrete
84. Different types of foundation & what is raft foundation?
85. Principles of surveying
86. what is a suspension bridge?
87. Universal Testing machine
88. What is bearing capacity of soil?
89. Types of retaining wall. How will you design the different types of retaining wall. List all steps.
90. Tests on aggregates

91. Abrasion and compression
92. What if we use a Roller on floor tile?
93. What are tmt bars? How are they made and uses
94. Runway pavments
- 95.. Sludge digester
96. Type of waste water treatment plant
97. Explain working of trickling filter
98. Reason for air pollution in Delhi
99. If you are incharge of Delhi pollution board what measures you will take to check pollution level.
100. What measures Delhi govt is taking to control air pollution .
101. "What is runway?
102. What kind if load is being considered in designing runway?
103. What material is used to design airport pavement?
104. What are different pavements?

Questions Asked in HR round:

1. Your biggest achievements except iit/cgpa where you are involved as a group and as a individual (atleast two situations)
2. Any thing which you started but didn't work out then you changed your method and started from beginning?
3. Experience of organising any event. What were the challenges. What were the learnings?
4. Any course you have done outside curriculum. How it helped you?
5. Any task in which you had to deal with professionals?
6. Have you taken any initiative which worked out well for your team?
7. How to deal with a team member who is disturbing the team environment but is a very important member?"
8. How would you react when you come accross with an argument?
9. If you have started a thing and wanted to change in a mid way. What were the consequences of that and how did you overcome that?
10. When your team mates are scolding you due to your mistake they lost. How will you react?

11. Are you involved in any Conflict?
12. What are your Hobbies?
13. Experience of management.