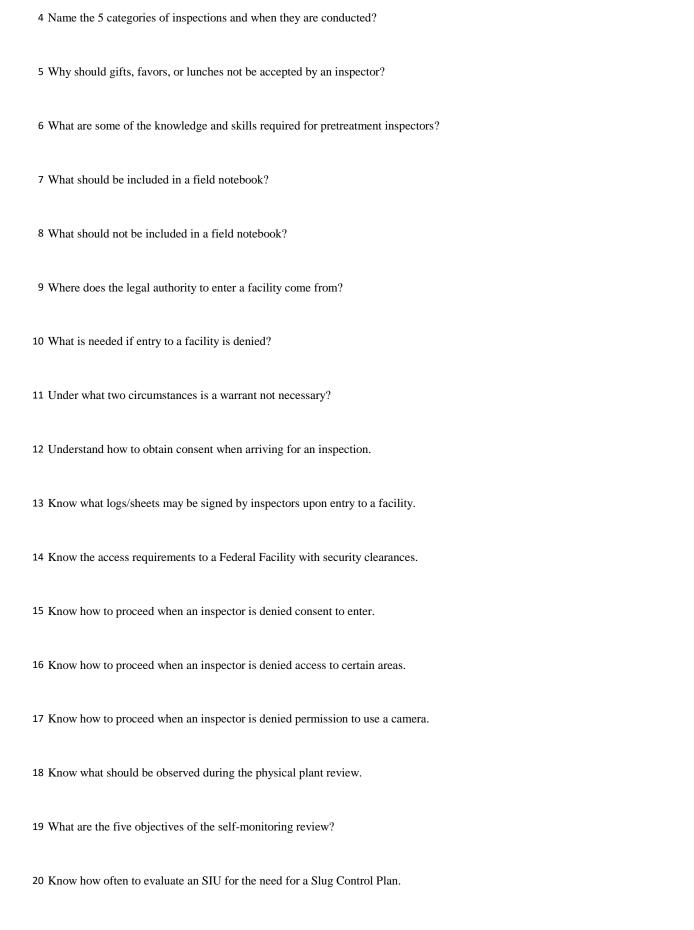
CHAPTER ONE – RULES AND REGULATIONS

1 Where can you find federal pretreatment regulations?
2 What are the objectives of the pretreatment program?
3 Where can you find North Carolina pretreatment regulations?
4 Who has the final word concerning discharge limits, program management and any part of the pretreatment program?
5 Define Control Authority & Approval Authority, generally and specifically for NC.
6 Who must have an approved pretreatment program?
7 List the initial and on-going documentation required for an approved pretreatment program.
8 How often must the POTW sample SIUs in NC?
9 When is the PAR due?
10 How long does 40 CFR 403.12 indicate pretreatment records are to be maintained?
11 How often are local limits required to be reviewed or revised?
12 Understand what information is considered to be public information.
13 What period of time does the POTW have before issuing or denying a permit?
14 Where does the POTW's legal authority come from to enforce the pretreatment program?
15 Be able to define bypass.
16 What document does the State use to require a specific discharger to have a pretreatment program?

CHAPTER TWO – INDUSTRIAL WASTE SURVEY

1 What is an industrial waste survey?
2 Why must we conduct an industrial waste survey?
3 Know and understand the conditions which require a POTW to assign SIU status to an IU.
4 What is the minimum number of sources that must be used to conduct the industrial waste survey?
5 What are the sources that can be used to conduct the industrial waste survey?
6 Know the steps involved in conducting a survey.
7 Why can certain businesses be eliminated from the IWS and what are some examples of these?
8 What information is needed from the industry to conduct a survey?
9 What IWS information must be available to the State for its review?
10 What should be conducted on an ongoing basis to ensure that you are aware of any new Significant Industrial User
CHAPTER THREE – INDUSTRIAL PRETREATMENT PROCESSES
1 What are the three types of treatment processes and what do they each remove?
2 Be able to categorize a specific treatment process as one of the three general types of pretreatment.
3 Know which processes are appropriate for pretreatment of specific pollutants described in Table 3.2.

4 Be aware of the types of ponutains that are produced during treatment & considerations needed for proper disposal.
5 Be familiar with how each physical treatment process discussed in chapter removes pollutants.
6 Why is flow equalization used?
7 Settling tanks or clarifiers are rated on what?
8 What are some typical problems encountered with clarifiers?
9 How are filters cleaned?
10 What are the limitations to reverse osmosis?
11 What is adsorption?
12 What does pH measure?
13 What are the two pollutants that must be separated from the normal metal wastestream?
14 Know the stages in the treatment of cyanide.
15 What does ion exchange remove from a waste stream?
16 What are some of the methods for volume reduction of sludge generated?
CHAPTER FOUR – INSPECTION PROCEDURES
1 Why are inspections important?
2 What is the minimum frequency for inspecting each kind of SIU?
3 What is a neutral inspection plan and its purpose?



22 Understand the confidentiality process.
<u>CHAPTER FIVE</u> - CATEGORICAL REGULATIONS/STANDARDS
1 What is another name for Federal Categorical Standards?
2 What does it mean that the Federal categorical standards are self-implementing?
3 The first categorical regulations promulgated in the mid 1970's focused on what type of pollutants?
4 Are Federal Categorical Pretreatment Standards different from Effluent Limitation Guidelines?
5 Know what PSNS and PSES are.
6 How do PSNS and PSES numeric limits differ?
7 Understand the difference between the Federal Register and Code of Federal Regulations.
8 Where can you find the final compliance date in the Federal Register?
9 When looking at a categorical regulation in CFR, where would the promulgation and compliance dates be located?
10 Be familiar with the process of determining if a facility is covered by Categorical regulations.
11 Why does EPA allow alternative pollutant monitoring in some categorical regulations?
12 Define new source
13 Define existing source
14 When does construction commence according to the new source definition?

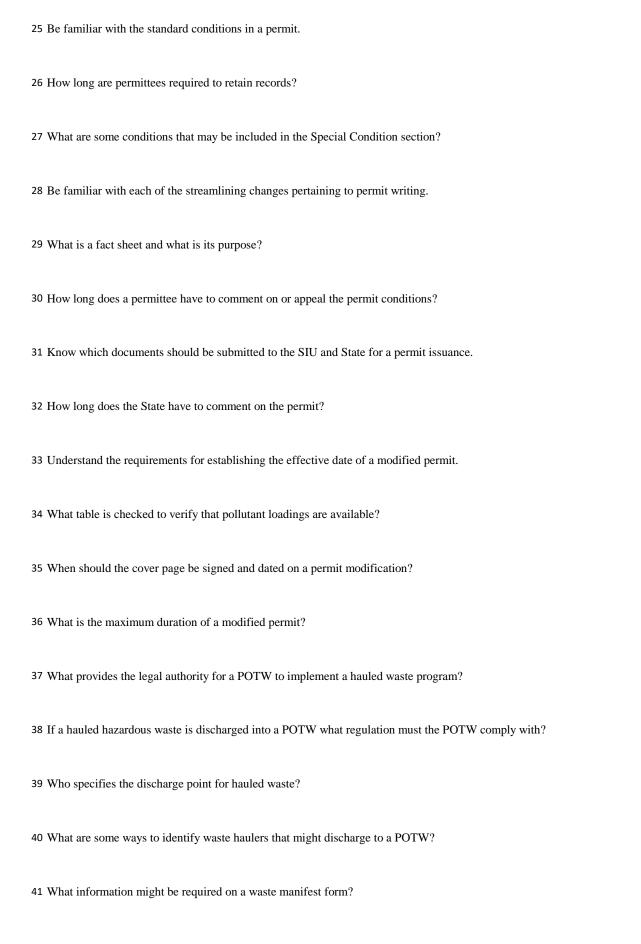
21 How long must pretreatment records be maintained?

15 What is the significance of the definition of new source?
16 How does the sale of a company or company name change alter the classification from existing source to new source?
17 Understand how a CIU's status as a new or existing source determines its final compliance date.
18 When must an existing facility submit a baseline monitoring report?
19 When must a new facility submit a baseline monitoring report?
20 When must an existing facility submit a 90-day compliance report for a new categorical regulation?
21 When must a new source submit a 90-day compliance report for a categorical regulation?
22 What are the required contents of BMRs in CFR Part 403.12?
23 How do the contents of BMRs for new and existing sources differ?
24 When should a compliance schedule be issued for a categorical facility?
25 What are the required contents of 90-day compliance reports?
26 Understand when a facility is in SNC for a new categorical regulation.
27 How does EPA define "monthly average" as it relates to categorical standards?
28 Know the difference between concentration-based standards, mass based standards and production based standards.
29 Know how to convert limits in units of concentration to units of mass.
30 When is an IU or SIU not considered to be a CIU, even when its process wastewater is covered by categorical regulation?
31 Understand waiver for pollutants not present, including the type of data a waiver would be based on.

32 What are some reasons for pollutant certifications allowed by EPA?
33 Be able to discuss the different certifications and alternative monitoring requirements.
34 Define TTO.
35 Where can you find the list of TTOs that apply to each categorical standard?
36 Be able to identify the seven industrial categories that have a TTO limit.
37 What is the TTO certification reporting frequency for metal finishers?
38 Know what plan is required for metal finishers to utilize the TTO certification option.
39 Define non-significant CIU.
40 What are the differences between a CIU and a middle-tier CIU?
41 Categorical pretreatment standards apply only to what type of flow?
42 Define regulated process wastewater.
43 Define unregulated wastestreams.
44 Define dilute wastestreams.
45 Where are categorical pretreatment regulations applied?
46 When is a categorical pretreatment standard the same as the end-of-pipe standard?
47 Define CWF.
48 What determines if the CWF should be used?

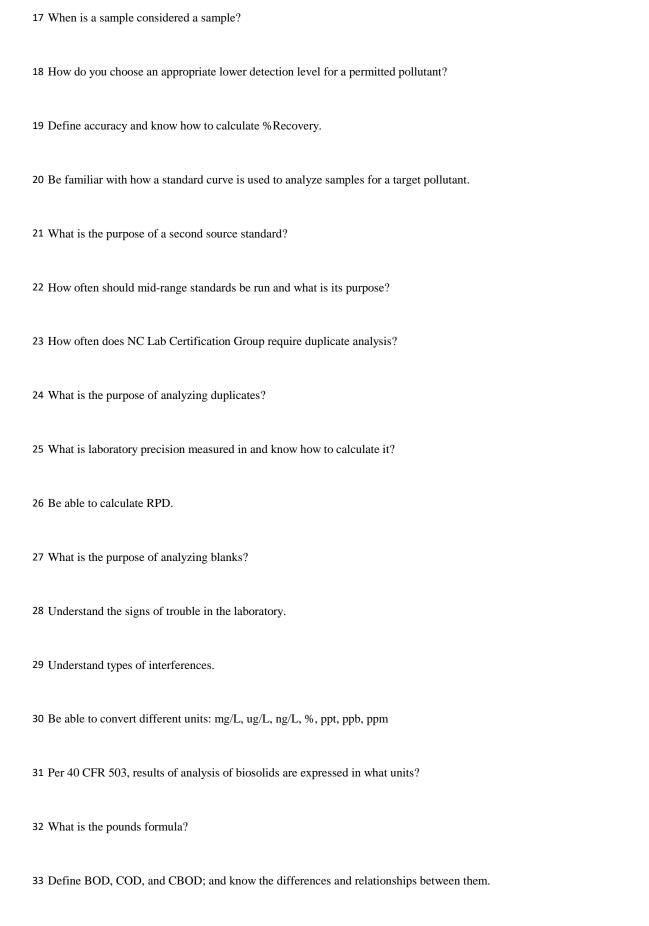
49	What is the purpose of removal credits and what parameters does it apply to?
50	What is a fundamentally different factors variance?
51	When must an industry apply for a variance for a fundamentally different factor?
52	What does net/gross adjustment allow for?
53	When should a net/gross adjustment not be allowed?
54	Be able to recognize the six core processes regulated in 413 and 433
55	Understand what production data should be reviewed to create a production based standard.
56	What defines a job shop electroplater?
57	Know the factors determining when a facility should be classified as an electroplater (413) & when it should be classified as a metal finisher (433).
	CHAPTER SIX – THE PERMITTING PROCESS
1	What gives the POTW the legal authority for issuing IU permits?
2	What are some of the basic policy decisions that the POTW must make prior to permit issuance?
3	What is a permit?
4	Who must be issued a permit?
5	Who should sign the permit application?
6	What is the maximum duration of a permit?
7	When is an inspection conducted at the facility?

8 What are some of the common permitting errors and omissions?
9 What are the restrictions that reduce permit writing flexibility?
10 Which type of limits cannot be increased?
11 What are the 5 main elements of a permit?
12 What are the major components of the cover page?
13 Which pollutants require regulation in a permit?
14 Where are local limits applied?
15 What information is found on the effluent limits page?
16 What is a tiered permit?
17 When should tiered permits be considered?
18 What information is available on an allocation table?
19 How is the sampling location selected?
20 What factors should be considered when establishing monitoring frequencies?
21 When is an SIU not required to sample?
22 When must an SIU notify the POTW that a self-monitoring violation has occurred?
23 What factors should be considered when establishing when reports are due?
24 What are the signature requirements for reports?



CHAPTER SEVEN – DATA REVIEW, VERIFICATION and INTERPRETATION

1 Why is it necessary to verify laboratory data?
3 Define MAHL.
2 Define LTMP and STMP.
4 What type of sampling data are required to be included on the DMR report?
5 Who must conduct the SIU LTM pollutant sampling and analysis?
6 Where does the uncontrollable load come from?
7 What is a laboratory bench sheet and why is it important?
8 Where would you find approved wastewater methods for the laboratory?
9 Where can you find the NC wastewater laboratory certification rules?
10 Understand that NC requires labs to be certified for each parameter they report for NPDES or Pretreatment Programs.
11 Know the Analytical Quality Control Program elements required in the NC wastewater laboratory certification rules.
12 What information should be included on a COC and when is a COC used?
13 Where is the proper location for sampling?
14 Determine the four ways to collect a composite sample.
15 What parameters must be collected as a grab sample?
16 When does the holding time start with a sample?



34 Understand the quality control requirements for BOD/CBOD.
35 What are the quality control requirements for COD?
36 What procedure is required for TSS analysis?
37 Define Total Nitrogen, TKN, Nitrate/Nitrite and Ammonia Nitrogen; and know the differences and relationships between them.
38 What are the different forms of phosphorus?
39 Know the main difference between dissolved metals and total metals analyses.
40 Know the difference between a 624 verses 625.
41 What are the reasons that phthalates or methylene chloride is detected in organic samples?
42 When interpreting data what is the first question that should be asked?
43 Define data exclusion.
CHAPTER EIGHT – COMPLIANCE JUDGMENT
1 Define SNC
2 What are the reporting periods in North Carolina?
3 Name some of the documents that should be tracked under the pretreatment program.
4 When are reports considered to be submitted?
5 Know the ways reporting can lead to SNC.
6 Know what CJPs are and how to calculate them.

7 How do you judge compliance for split samples?
8 How do you judge compliance for two separate samples?
9 What are the ways you can judge compliance with BDL?
10 What are the ways you can average BDL data?
11 Know how to judge compliance with an average limit.
12 Define Chronic Violations and TRC Violations.
13 Know how to calculate SNC.
14 Know how to sample out of SNC.

CHAPTER NINE - REFERENCE MATERIAL