

INSTITUTEOFAERONAUTICALENGINEERING

(Autonomous) Dundigal, Hyderabad-500043

CIVIL ENGINEERING

TUTORIAL QUESTION BANK

Course Title	BUILD	ING	TECHNOLOG	¥Y		
Course Code	ACE80	7				
Programme	B.Tech					
Semester	VII	CE				
Course Type	Skill					
Regulation	IARE -	R16	5			
			Theory		Practio	cal
Course Structure	Lectu	res	Tutorials	Credits	Laboratory	Credits
	-		-	-	-	-
Chief Coordinator	Mr. K. Tarun Kumar, Assistant Professor.					
Course Faculty	Mr. K.	Anaı	nd Goud, Assista	nt Professor.		

COURSE OBJECTIVES:

The cou	rrse should enable the students to:
I	Understand the basic building materials, properties and their applications.
II	Analyze the knowledge of planning of buildings.
III	Understand the concepts of fire safety, ventilation and plumbing services provided for a building.
IV	Explain principles of acoustics in building and plumbing.

COURSE OUTCOMES (COs):

CO 1	Understand the types, properties of stones, bricks, cement and concrete.
CO 2	Identify the components of building and explain principles of building planning, building by laws.
CO 3	Learn to inspect and assess the structures using techniques of visual inspection, various types of fire protection measures in planning.
CO 4	Understand Prefabrication systems in residential buildings, requirements of ventilation.
CO 5	Explain principles of acoustics of building, water supply system, principles governing design of building drainage.

COURSE LEARNING OUTCOMES (CLOs):

ACE807.01	Predict the properties of building stones and its classifications.
ACE807.02	Understand the concept of various methods of manufacture of bricks.
ACE807.03	Explain various types of cements and their applications in construction
ACE807.04	Understand the properties of concrete and its significance in building construction
ACE807.05	Explain different types of lintel, arches and the materials which are commonly used for
	construction.
ACE807.06	Understand the principles of building planning and building by laws.
ACE807.07	Identify the various types of fire protection measures while planning building.
ACE807.08	Understand the importance of circulation, lighting, ventilation.
ACE807.09	Importance of design and economy in planning of buildings.
ACE807.10	Identify control measures and precautions for various construction defects.
ACE807.11	Understand the general principles of design of openings in buildings.
ACE807.12	Various types of fire protection measures to be considered while planning a building.
ACE807.13	Understand the types of investigations to identify the defects in buildings.
ACE807.14	Prefabrication systems in residential buildings, walls, openings.
ACE807.15	Planning and modules and sizes of components in prefabrication. Process.
ACE807.16	classification of air conditioning, Dehumidification systems of air conditioning.
ACE807.17	Understand the functional requirements of ventilation.
ACE807.18	Explain properties of noise and its measurements, principles of acoustics of building.
ACE807.19	Importance and measures of sound insulation.
ACE807.20	Understand about water supply system, maintenance of building pipe line, Sanitary fittings,
ACE807.21	principles governing design of building drainage.

TUTORIAL QUESTION BANK

	MODULE- I					
	STONES, BRICKS, CEMENT AND CONCRETE					
	Part - A (Short Answer Questions)					
S No	QUESTIONS	Blooms	Course	Course		
		Taxonomy	Outcomes	Learning		
		Level		Outcomes		
				(CLOs)		
1	Why you choose stone as a building material?	Understand	CO 1	ACE807.01		
2	Write down the characteristics of good stone?	Remember	CO 1	ACE807.01		
3	Mention the basic classifications of stones.	Remember	CO 1	ACE807.02		
4	State any four advantages of bricks as compared with stones.	Understand	CO 1	ACE807.02		
5	List out the ingredients of cement.	Remember	CO 1	ACE807.03		
6	What are the properties and uses of first class bricks?	Remember	CO 1	ACE807.02		
7	Name the types of rocks according to geological classification.	Remember	CO 1	ACE807.03		
8	State the classification of rocks with examples.	Remember	CO 1	ACE807.03		
9	What are the constituents of good brick earth?	Remember	CO 1	ACE807.02		
10	Name the operations involved in the manufacture of brick.	Remember	CO 1	ACE807.02		
11	Enumerate various types of cement?	Remember	CO 1	ACE807.04		
12	What is dressing of stones?	Understand	CO 1	ACE807.01		
13	Define tempering?	Remember	CO 1	ACE807.02		
14	What is unsoiling?	Remember	CO 1	ACE807.02		
15	What are the properties of OPC?	Remember	CO 1	ACE807.04		
16	List out the names of bricks for special use.	Understand	CO 1	ACE807.02		
17	What are the advantages & disadvantages of clamp burning?	Remember	CO 1	ACE807.02		
18	What are the advantages & disadvantages of kiln burning?	Remember	CO 1	ACE807.02		
19	State the points to be considered in selecting a site for quarry of stones.	Remember	CO 1	ACE807.01		
20	State the purpose of dressing of stones.	Understand	CO 1	ACE807.01		
	Part - B (Long Answer Questions)					
1	Write a short note on English bond with neat sketch.	Understand	CO 1	ACE807.02		

2	Illustrate the geological, physical and chemical classification of rocks?	Remember	CO 1	ACE807.03
3	Describe the characteristics of good building stones.	Remember	CO 1	ACE807.03 ACE807.01
4	Illustrate the classification of bricks with neat sketch.	Understand	CO 1	ACE807.01 ACE807.02
5	What do you understand about the dressing of stones and explain briefly?	Remember	CO 1	ACE807.02 ACE807.01
6	What test are to be made on bricks explain any three of them?	Remember	CO 1	ACE807.01 ACE807.02
7	Explain the qualities of good building stones.	Remember	CO 1	ACE807.02 ACE807.01
8	Write the various methods of quarrying of stones. Explain briefly.	Understand	CO 1	ACE807.01
9	Explain in detail the process of manufacturing of bricks.	Understand	CO 1	ACE807.02
10	State the uses of stones in various construction works.	Remember	CO 1	ACE807.01
11	Explain briefly about the tests conducted on cement to find its properties?	Remember	CO 1	ACE807.04
12	Mention various tests conducted on concrete.	Understand	CO 1	ACE807.01
13	Discuss the classification of bricks and explain about their qualities, special types of bricks?	Understand	CO 1	ACE807.02
14	Explain the field tests on cement? Write the chemical composition of ordinary Portland cement.	Understand	CO 1	ACE807.02
15	Differentiate between the following: i. Initial setting time and final setting time. ii. Hydration and hardening of cement	Understand	CO 1	ACE807.04
16	Explain about hydration of cement?	Understand	CO 1	ACE807.04
17	What is meant by workability of concrete? Mention different tests conducted on workability of concrete.	Remember	CO 1	ACE807.04
18	What are the methods of testing the properties of green concrete? Describe them briefly.	Understand	CO 1	ACE807.04
19	Explain about the compressive strength test of concrete.	Remember	CO 1	ACE807.04
20	Explain the uses of the following building materials.	Remember	CO 1	ACE807.01
	a) Marble b) Granite c) Basalt d) Sandstone			
	MODULE-II			
	BUILDING AND VENTILATION			
	Part – A (Short Answer Questions)		~~-	
1	What is the use of lintel?	Remember	CO 2	ACE807.04
2	What are the different types of floors?	Remember	CO 2	ACE807.04
3	What are the components of an arch?	Remember	CO 2	ACE807.05
4	What are the types of trussed roofs?	Understand	CO 2	ACE807.05
5	Name important metals used in roof construction. What is Shallow foundation?	Understand	CO 2	ACE807.06
7		Remember		ACE807.05
8	What are the advantages of damp proof coursing?	Understand	CO 2	ACE807.05 ACE807.06
	What are the main types of foundations?	Remember	CO 2	
9	Define Baluster. Write briefly the factors affecting building planning.	Understand Understand	CO 2	ACE807.06 ACE807.06
11	Write any four basic principles of building planning in respect of residential	Remember	CO 2	ACE807.00
11	building?	Remember	CO 2	ACE807.05
12	What is orientation?	Remember	CO 2	ACE807.06
13	State the factors affecting orientation?	Understand	CO 2	ACE807.06
14	What are building bye laws?	Understand	CO 2	ACE807.06
15	Define floor space index?	Understand	CO 2	ACE807.06
16	define residential building	Understand	CO 2	ACE807.05
17	Classify the building based on occupancy.	Remember	CO 2	ACE807.05
18	Classify the building based on type on construction.	Understand	CO 2	ACE807.04
19	Mention any five principles of planning the building.	Remember	CO 2	ACE807.06
20	What is ventilation?	Understand	CO 2	ACE807.05
	Part - B (Long Answer Questions)			
		Understand	CO 2	ACE807.06
1	Describe briefly about different types of ground floors.	Chacistana	~ ~	
2	Describe briefly about different types of ground floors. Describe classification of lintel based on materials and work man ship.	Understand	CO 2	ACE807.06
				ACE807.06 ACE807.06
2	Describe classification of lintel based on materials and work man ship.	Understand	CO 2	
2	Describe classification of lintel based on materials and work man ship. Write short notes on the following, a) Flat arch b) Relieving arch	Understand	CO 2	
2	Describe classification of lintel based on materials and work man ship. Write short notes on the following, a) Flat arch b) Relieving arch c) Bull's arch	Understand	CO 2	
2	Describe classification of lintel based on materials and work man ship. Write short notes on the following, a) Flat arch b) Relieving arch	Understand	CO 2	

Discuss about the combined footing with near sketch. Understand CO 2 ACE807.06	5	List the different types of foundations, Explain shallow foundations.	Remember	CO 2	ACE807.05
New Process Service of Service					ACE807.05
8 Write a short note with neat sketch for the Spread flootings. Understand CO 2 ACE807.05		<u> </u>			ACE807.05
Write a short note on following with neat sketches i. Strap footing					
i. Mat or raft foundation. 10 What are the different types of circulations? Explain in detail? Remember CO 2 ACE807.05 11 Explain about following principles of building planning. Remember CO 2 ACE807.05 12 Define building planning. What is the significance of building planning? Remember CO 2 ACE807.05 13 What is the scope of building planning? Understand CO 2 ACE807.05 14 Explain briefly the factors affecting building planning? Understand CO 2 ACE807.05 15 Explain briefly the factors affecting building planning? Understand CO 2 ACE807.05 16 Explain briefly the factors affecting building planning? Understand CO 2 ACE807.05 17 Classify the different types of buildings according to MBC? Understand CO 2 ACE807.05 18 State and explain the various basic principles of building planning? Remember CO 2 ACE807.05 19 What is meant by orientation and state the factors affecting the orientation of building? 10 Define circulation. Explain the importance of circulation? Understand CO 2 ACE807.05 10 Define Repair. Part A (Short Answer Questions) 11 Define Repair. 12 Define Repair. Part A (Short Answer Questions) 13 Define Repair. Part A (Short Answer Questions) 14 Part are the causes of deterioration? Understand CO 3 ACE807.05 15 Define Repair. Part A (Short Answer Questions) 16 Define Repair. Part A (Short Answer Questions) 17 Define Repair. Part A (Short Answer Questions) 18 What are the causes of deterioration? Understand CO 3 ACE807.05 19 What are the causes of deterioration? Understand CO 3 ACE807.05 10 Define Repair. Part A (Short Answer Questions) 11 Define Repair. Part A (Short Answer Questions) 12 Define Physical inspection of damaged structure. Understand CO 3 ACE807.05 13 What are the causes of the properties of damaged structure. Understand CO 3 ACE807.05 14 What are the causes of the corrosion? Remember CO 3 ACE807.05 15 What is the use of openings in building? Remember CO 3 ACE807.11 16 What is the use of openings in building? Remember CO 3 ACE807.11 17 Define vertical different frief					
iii. Mat or raft foundation. Explain in detail? Remember CO 2 ACE807.05 iii. Circulation Co 2 ACE807.05 iii. Ventitation CO 2 ACE807.05			Chacistana	002	1102007.00
10 What are the different types of circulations? Explain in detail? Remember CO 2 ACE807.05					
Explain about following principles of building planning. i. Grouping ii. Circulation iii. Ventilation iii. Ventilatio	10		Remember	CO 2	ACE807.05
ii. Circulation iii. Ventilation liii. Ventilation lii					
iii. Circulation iii. Ventilation 12 Define building planning. What is the significance of building planning? Remember CO 2 ACE807.05 13 What is the scope of building planning? Understand CO 2 ACE807.05 14 Explain briefly the factors affecting building planning? Understand CO 2 ACE807.05 15 Explain briefly about the principles of planning? Understand CO 2 ACE807.05 16 Explain various principles underlying building bye-laws. Understand CO 2 ACE807.05 17 Classify the different types of building saccording to NBC? Understand CO 2 ACE807.05 18 State and explain the various basic principles of building planning? Remember CO 2 ACE807.05 19 What is meant by orientation and state the factors affecting the orientation of building? 20 Define circulation. Explain the importance of circulation? Understand CO 2 ACE807.05 21 Define Repair. REPAIRS IN BUILDINGS Part - A (Short Answer Questions) 1 Define Repair. Understand CO 3 ACE807.05 2 Define Maintenance Remember CO 3 ACE807.05 3 What are the cusses of deterioration? Understand CO 3 ACE807.05 4 What are the cusses of deterioration? Understand CO 3 ACE807.05 5 Define Rehabilitation. 6 Define physical inspection of damaged structure. Understand CO 3 ACE807.05 7 How deterioration occurs due to corrosion? Remember CO 3 ACE807.05 8 What are the factors to be considered by the designer at the construction site. Understand CO 3 ACE807.05 9 Write a short note on reacking. The designer at the construction site. Understand CO 3 ACE807.05 10 Write a short note on reacking. Remember CO 3 ACE807.05 11 Define horizontal circulation. Part of the designer at the construction site. Understand CO 3 ACE807.05 12 What is the use of openings in building? Remember CO 3 ACE807.05 13 What are the steps in selecting a repair procedure? Remember CO 3 ACE807.05 14 What are the different types of openings in building? Remember CO 3 ACE807.05 15 What is the use of openings in building? Remember CO 3 ACE807.11 16 What are the different inferigibiling equipment? Remember CO 3 ACE807.05 17 Part - B (L	11		Remember	CO 2	71CL007.03
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16 Explain various principles underlying building bye-laws Understand CO 2 ACE807.05 17 Classify the different types of buildings according to NBC? Understand CO 2 ACE807.05 18 State and explain the various basic principles of building planning? Remember CO 2 ACE807.05 19 What is meant by orientation and state the factors affecting the orientation of Understand CO 2 ACE807.05 10 Define circulation. Explain the importance of circulation? Understand CO 2 ACE807.05 10 Define circulation. Explain the importance of circulation? Understand CO 2 ACE807.05 10 Define Repair. Understand CO 3 ACE807.05 11 Define Repair. Understand CO 3 ACE807.05 12 Define Maintenance Remember CO 3 ACE807.05 3 What are the two facets of maintenance? Remember CO 3 ACE807.05 4 What are the causes of deterioration? Understand CO 3 ACE807.05 5 Define Rehabilitation. Remember CO 3 ACE807.05 6 Define physical inspection of damaged structure. Understand CO 3 ACE807.05 8 What are the factors to be considered by the designer at the construction site. Understand CO 3 ACE807.05 9 Write a short note on reacking. Understand CO 3 ACE807.05 10 Write a short note on spalling. Remember CO 3 ACE807.05 10 Write a short note on spalling. Remember CO 3 ACE807.16 10 Write a short note on spalling. Remember CO 3 ACE807.16 10 Write a short note on spalling. Remember CO 3 ACE807.16 10 Write a short note on spalling. Remember CO 3 ACE807.16 11 Define horizontal circulation. Understand CO 3 ACE807.16 12 What are the different types of openings in building? Remember CO 3 ACE807.16 13 What are the different frefighting equipment? Remember CO 3 ACE807.16 14 Define horizontal circulation. Understand CO 3 ACE807.16 15 Write a mass of different NDT tests for strength estimation of conc					
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REPAIRS IN BUILDINGS Part - A (Short Answer Questions) 1 Define Repair. Understand CO 3 ACE807.05 2 Define Maintenance Remember CO 3 ACE807.05 3 What are the two facets of maintenance? Remember CO 3 ACE807.05 4 What are the causes of deterioration? Understand CO 3 ACE807.05 5 Define Rehabilitation. Remember CO 3 ACE807.05 6 Define physical inspection of damaged structure. Understand CO 3 ACE807.05 7 How deterioration occurs due to corrosion? Remember CO 3 ACE807.05 8 What are the factors to be considered by the designer at the construction site. Understand CO 3 ACE807.05 9 Write a short note on cracking. Understand CO 3 ACE807.05 10 Write a short note on spalling. Remember CO 3 ACE807.05 11 What are the steps in selecting a repair procedure? Remember CO 3 ACE807.11 14 Define horizontal circulation. Understand CO 3 ACE807.11 15 What is the use of openings in building? Remember CO 3 ACE807.11 16 What are the different types of openings in building? Remember CO 3 ACE807.11 17 Define vertical circulation. Understand CO 3 ACE807.11 18 What are the different types of openings in building? Remember CO 3 ACE807.11 19 Write names of different NDT tests for strength estimation of concrete. Remember CO 3 ACE807.16 20 Explain the need for evaluation of structures. Understand CO 3 ACE807.16 21 Explain preliminary investigation & Detailed investigation. Understand CO 3 ACE807.16 22 Mention the Remember CO 3 ACE807.16 23 What do you mean by deterioration? Explain the mechanism of deterioration in Concrete structures? 24 Explain about types of building repairs and Maintenance Services. Remember CO 3 ACE807.05 2 Mention the Supplied of evaluating the strength of existing Structure. 3 What are the factors to be considered by the designer at the construction site. Remember CO 3 ACE807.05 3 What are the factors to be considered by the designer at the construction site. Remember CO 3 ACE807.05 4 Explain in detail? 4 Explain in detail? 5 What are the factors to be considered by the designer at the construction site. Remember CO 3	20		Oliderstalid	CO 2	ACE807.00
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Part - B (Long Answer Questions) 1 Explain preliminary investigation & Detailed investigation. Understand CO 3 ACE807.08 2 Mention the Understand CO 3 ACE807.08 3 What do you mean by deterioration? Explain the mechanism of deterioration in concrete structures? 4 Explain about types of building repairs and Maintenance Services. Remember CO 3 ACE807.08 5 Define the fixed percentage method of evaluating the strength of existing structure. 6 Discuss about the design and construction errors leading to deterioration of a structure. 7 What are the factors to be considered by the designer at the construction site. Remember CO 3 ACE807.09 Explain in detail? 8 What are the steps in repair aspect? Understand CO 3 ACE807.09 9 Discuss about the environment effects which leads to deterioration of concrete Understand CO 3 ACE807.08		· · · · · · · · · · · · · · · · · · ·			
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10	What is the effect of selecting poor quality material for construction?	Remember	CO 3	ACE807.08
11	Explain about different firefighting equipment.	Remember	CO 3	ACE807.11
12	What are the various measures for protecting a building from fire. Explain	Understand	CO 3	ACE807.10
12	briefly.	Olidolistalia	003	1102007.10
13	Explain the concrete column in detail with figure	Understand	CO 3	ACE807.10
14	Explain the Compression test & Tension Test?	Understand	CO 3	ACE807.10
15	What are the various aspects that will be covered during inspection of damaged	Understand	CO 3	ACE807.11
	buildings?			
16	What are the design principles of openings?	Understand	CO 3	ACE807.09
17	Explain about any two design principles of openings.	Understand	CO 3	ACE807.11
18	Explain about vertical circulation of a building with example.	Remember	CO 3	ACE807.10
19	Explain about horizontal circulation of a building with example.	Understand	CO 3	ACE807.11
20	Write about rebound hammer test.	Understand	CO 3	ACE807.11
	MODULE -IV			
	PREFABRICATION SYSTEMS AND AIR CONDI	FIONING		
	Part - A (Short Answer Questions)			
1.	What is prefabrication system?	Understand	CO 4	ACE807.14
2.	What are prefabricated materials?	Remember	CO 4	ACE807.14
3.	Why is prefabrication a good method of installation?	Remember	CO 4	ACE807.15
4.	What are the advantages and disadvantages of prefabrication?	Understand	CO 4	ACE807.15
5.	What is the difference between precast and prefabricated concrete?	Remember	CO 4	ACE807.16
6.	What is prefabricated formwork?	Understand	CO 4	ACE807.15
7.	What is meant by prefabricated structures?	Remember	CO 4	ACE807.16
8.	What are the different types of air conditioning systems?	Understand	CO 4	ACE807.15
9.	What is air conditioning process?	Understand	CO 4	ACE807.16
10.	What is the principle of air conditioning?	Remember	CO 4	ACE807.15
11.	What are the components of an air conditioning system?	Understand	CO 4	ACE807.16
12.	What is dehumidification in air conditioning?	Remember	CO 4	ACE807.15
13.	What is humidification and dehumidification?	Remember	CO 4	ACE807.16
14.	What is a dehumidification system?	Understand	CO 4	ACE807.16
15.	How do you dehumidify air?	Remember	CO 4	ACE807.16
16.	What are the types of ventilation?	Understand	CO 4	ACE807.17
17.	What are the requirements of ventilation?	Remember	CO 4	ACE807.17
18.	What are the functions of ventilation?	Understand	CO 4	ACE807.16
19.	Why is ventilation important in buildings?	Understand	CO 4	ACE807.17
20.	What is the principle of ventilation?	Remember	CO 4	ACE807.16
1	Part – B (Long Answer Questions)	TT. 1	CO 4	A CE 007 14
1.	What are the characteristics of Materials used for construction of PFS?	Understand	CO 4	ACE807.14
2.	What are the Factors influencing the standardization?	Remember Remember	CO 4	ACE807.14
3. 4.	Distinguish between site prefabrication and plant prefabrication. What are the principles of prefabrication techniques and explain in detail and	Remember	CO 4	ACE807.15 ACE807.15
4.	also mention its advantages and disadvantages.	Understand	CO 4	ACEOU/.13
5.	Explain the erection principles of precast members with suitable sketches.	Remember	CO 4	ACE807.16
6.	Explain the election principles of precast members with suitable sketches. Explain the need for prefabrication systems.	Understand	CO 4	ACE807.15
7.	Explain the freed for prefabrication systems. Explain the production process of prefabricated structural elements	Remember	CO 4	ACE807.16
8.	Discuss the concepts for precast concrete buildings.	Understand	CO 4	ACE807.15
9.	What is the process involved in manufacture of PFS?	Understand	CO 4	ACE807.16
10.	What are the methods for Manufacture of precast concrete elements and explain		CO 4	ACE807.15
	the factors influencing method of manufacturing.	Remember		
11.	Explain the precasting methods and stages of work in precasting?	Understand	CO 4	ACE807.16
12.	What are the importance aspects considered during hoisting, erection and		CO 4	ACE807.15
	transportation of precast element?	Remember		
13.	Explain erection and equipments required for erection.	Remember	CO 4	ACE807.16
14.	Discuss in detail the concept of modular coordination .State its significance in	Understand	CO 4	ACE807.16
	prefabricated structures.	Understand		
15.	Explain the behavior of large panel construction with suitable sketches.	Remember	CO 4	ACE807.16
16.	Explain the methods of construction of roof and floor slab. Also explain the	Understand	CO 4	ACE807.17
	precautions taken during the manufacturing process.	Onderstand		

17.				
	What is the necessity of providing shear walls in the precast structures? Also discuss the different types of shear walls.	Remember	CO 4	ACE807.17
18.	Write briefly about types of wall panels.	Understand	CO 4	ACE807.16
19.	Write about the structural behavior of precast structure.	Understand	CO 4	ACE807.17
20.	Differentiate the behavior of frame in precast structures.	Remember	CO 4	ACE807.16
	MODULE -V			
	ACOUSTICS AND PLUMBING SERVICE	S		
	Part - A (Short Answer Questions)			
1.	What makes good acoustics?	Remember	CO 5	ACE807.14
2.	What are the factors affecting acoustics of a building?	Understand	CO 5	ACE807.14
3.	What does acoustic performance mean?	Remember	CO 5	ACE807.15
4.	What is acoustics of sound?	Understand	CO 5	ACE807.15
5.	How do acoustics affect sound?	Remember	CO 5	ACE807.16
6.	What do you mean by acoustics of buildings?	Understand	CO 5	ACE807.15
7.	What is Echelon effect in acoustics?	Understand	CO 5	ACE807.16
8.	What is the difference between sound and acoustics?	Remember	CO 5	ACE807.15
9.	What are acoustic materials?	Understand	CO 5	ACE807.16
10.	What is an acoustics consultant?	Remember	CO 5	ACE807.15
11.	What is acoustics of building?	Remember	CO 5	ACE807.16
12.	What are the factors affecting acoustics of a building?	Understand	CO 5	ACE807.15
13.	What does acoustic performance mean?	Remember	CO 5	ACE807.16
14.	What is impact sound insulation?	Understand	CO 5	ACE807.16
15.	What is the purpose of sound insulation?	Remember	CO 5	ACE807.16
16.	What type of insulation is best for soundproofing?	Understand	CO 5	ACE807.17
17.	How do you soundproof a room from inside noise?	Understand	CO 5	ACE807.17
18.	How does a water supply system work?	Understand	CO 5	ACE807.16
19.	What are the four different types of water supply distribution system?	Remember	CO 5	ACE807.17
20.	What are the methods of water supply?	Understand	CO 5	ACE807.16
	Part - B (Long Answer Questions)			
1.	Write short notes on any four of the following:		CO 5	ACE807.18
	(a) Importance of acoustical partitions in an open office system.	Remember		
	(b) Types of Noises.	Kemember		
	(c) Properties of good acoustic material.			
2.	Write short notes on any four of the following:		CO 5	ACE807.18
2.	Write short notes on any four of the following: (a) Role of noise survey in placement of library in an institutional campus.	Understand	CO 5	ACE807.18
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3.4.5.6.	Write short notes on any four of the following: (a) Role of noise survey in placement of library in an institutional campus. (b) Consequences of reflection of sound in an envelope. (c) Variety of Speakers. What is the acceptable indoor noise level for an Intensive Care Unit of a hospital or Court Room? Identify the sources of outdoor as well as indoor noise. Suggest various precautions, which you shall take while designing it. Mention various acoustical defects in an enclosure. Discuss the causes of various defects and their remedial measures. Support your answer with neat illustrations Explain Reverberation of sound in an enclosure. Discuss the importance of controlling the reverberation time in a multipurpose hall to be used for various purposes like music concerts, theatre, lectures and projection of films. Differentiate between any three of the following. Support your answer with neat illustrations: (a) Echo and Reverberation. (b) Use of absorption and reflection of sound. (c) Sound shadow and sound focii Differentiate between any three of the following. Support your answer with neat illustrations: (a) Intensity and loudness of sound. (b) Microphone and amplifier. (c) Reflection of sound from convex and concave surfaces	Remember Understand Understand Understand	CO 5 CO 5 CO 5	ACE807.18 ACE807.18 ACE807.18 ACE807.18
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11.	Mention What Are Some Health And Safety Issues That Plumber Face?	Remember	CO 5	ACE807.20
12.	Mention What Are The Different Types Of Chemical Drain Cleaners Are Used?	Understand	CO 5	ACE807.20
13.	Should we use plastic or copper pipe to install a new water softener in our system?	Remember	CO 5	ACE807.21
14.	Describe the procedure of design of pumps and rising main.	Understand	CO 5	ACE807.21
15.	Describe the methods of removal of hardness of water.	Remember	CO 5	ACE807.20
16.	Write short note on "Septic Tank" and explain its design procedure.	Understand	CO 5	ACE807.21
17.	Enlist the different types of pipes used for water supply.	Understand	CO 5	ACE807.21
18.	What are the differences in applications between pipe culverts and box culverts?	Remember	CO 5	ACE807.20
19.	Why is it preferable to design stormwater drains to match soffit?	Understand	CO 5	ACE807.20
20.	What is the mechanism of cavitation in pipes and drains?	Understand	CO 5	ACE807.21

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