

Q.26 Draw a neat sketch of Escalator and label its various parts

Q.27 Differentiate between Gate valve and float valve.

Q.28 State the purposes of objectives of air conditioning.

Q.29 Explain with neat sketch the functioning of SEPTIC TANK.

Q.30 List precautions to avoid fire accidents.

Q.31 Sketch any three sanitary fittings.

Q.32 Explain rain water harvesting and its uses.

Q.33 Enlist the different types of lift used in high rise building.

Q.34 Explain various grades of fire hazards.

Q.35 Discuss any two types of sound insulating material in detail.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain the function of water closet and flushing cistern along with neat sketches.

Q.37 Describe sound insulation and discuss any two defects of sound in detail.

Q.38 Explain fire fighting services and causes of fire in building.

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**3rd Sem / Arch.
Subject:- Building Services**

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Rain water is used to carry _____
 a) Waste water b) Rain water
 c) Both A & B d) None

Q.2 How many types of ventilation are there?
 a) 3 b) 4
 c) 2 d) 1

Q.3 A fire detector cannot detect:
 a) Light b) Heat
 c) Radiation d) Smoke

Q.4 The term _____ is used to mean the free passage of clean air in structure.
 a) circulation b) dissipation
 c) ventilation d) condensation

Q.5 Which is the most type of wirings are used in domestic applications?
 a) Conduit wiring b) Cleat wiring
 c) Batten wiring d) None of these

Q.6 Noise is:
a) An unwanted sound b) An irritant
c) A source of stress d) All of the above

Q.7 Rain water harvesting increases the ground water levels.
a) True b) False

Q.8 MCB stands for:
a) Miniature Circuit Breaker
b) Mono Circuit Breaker
c) Mega Circuit Breaker
d) None

Q.9 The pipe which carries waste water from kitchen, bath, sink is known as _____
a) C I pipe b) G I pipe
c) Soil pipe d) Waste pipe

Q.10 While calculating the handling capacity of lift, the weight of a person is taken as 65kg.
a) True b) False

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 The qualities of a room or a building that determine how sound is transmitted is known as _____.

Q.12 _____ is an active fire protection device used to extinguish or control small fires, often in emergency situation.

Q.13 Air conditioning can also be provided by a simple process called _____.

Q.14 In construction, a complete system of heating, ventilation and air conditioning is referred to as _____.
Q.15 _____ is used to measure the amount of light output in a given area.
Q.16 A safety device used in electrical installations with high earth impedance to prevent shock _____.
Q.17 A repetition of sound produced by the reflection of sound waves from a wall, mountain or obstructing surface is called _____.
Q.18 _____ is used to transport persons or materials between two or more levels in a vertical direction by means of guided car.
Q.19 The size of soil pipe is _____.
Q.20 In a building, to provide ultimate comfort to occupants _____ can be used

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain principles of Surface Drainage.
Q.22 Draw any five types of electrical symbols.
Q.23 Explain different method of water distribution system.
Q.24 Describe any two types of fire resistant materials in detail.
Q.25 Explain the various types/sizes of pipes commonly used in house drainage system.