

Roll No _____

Script No. _____



SINDH BOARD OF TECHNICAL EDUCATION KARACHI

DIPLOMA OF ASSOCIATE ENGINEER 3rd YEAR

MODEL PAPER

ANNUAL EXAMINATION 2021

Technologies: CIVIL

SUBJECT: CT-333 PUBLIC HEALTH ENGINEERING-II

SECTION "A" OBJECTIVE

Instructions:

- Attempt all questions.
- All questions carry equal marks.
- Question paper must be returned back to invigilator within the scheduled time.

TIME: 40 Minutes
MAX. MARKS: 25

Q1.(a) Fill In the Blanks

Max Marks 10

1. Quantity of Domestic & Industrial Sewerage is called _____.
2. Industrial sewerage is also called _____.
3. Conveying Rain water is called _____.
4. Elevation for sewer line is generally carried rest Between two _____.
5. Human Excreta is termed as _____.

Q.1(b) Encircle "T" for true and "F" for false:

Max Marks 5

1. The purpose of building drainage is to provide healthy environment (T/F)
2. A relief sewer is are in one that is Built to help on inadequate capecity (T/F)
3. Circular shape of sewer are arred to bering dorn the cost of constriction (T/F)
4. The tap of verification column should be converted by called branch sewer (T/F)
- 5.

Q1.(c) Multiple choice questions:

Max Marks 5

1. Trade waste water is also called _____ sewage.
(a) Domestic (b) Storm (c) Industrial
2. Run- off coefficient is also known as _____
(a) Co-efficient of Impressiveness
(b) Time of Concentration
(c) Intensity of rainfall
3. Network of pipe used to convey the faoul material is called _____
(a) Sewage (b) Sullage (c) Sewerage
4. The vent pipe used for _____
(a) Rain Water (b) Ventilation (c) Geyser
5. The roughness factor of cast iron pipes in _____
(a) 0.013 (b) 0.0015 (c) 0.011

Signature of Candidate

Seal of Examination Centre

Signature of Invigilator



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MODEL PAPER FOR
ANNUAL EXAMINATION 2019
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SECTION "B" & "C"

TIME: 2.40 HOURS

MAX. MARKS: 25

Section "B"

(Short Answer Questions)

Max. Marks: 15

Q2: Attempt any Six questions from the following. All questions carry equal marks.

- 1- Define important Technical Terms of the following
(a) Sewage (b) Sewerage (c) Sullage
- 2- Describe Imperious Factor
- 3- Define P-Trap its type and explain its purpose
- 4- State the factors affecting D.W.F
- 5- Define Self Cleaning Velocity
- 6- Why is the necessity of ventilation of sewer.
- 7- Explain the purpose of Pumping Station
- 8- State five requirements of a good building Drainage system
- 9- What do you know about the 'time of concentration.'

Section "C"

(Descriptive Answer Questions)

Max. Marks: 16

Q3: Attempt any Two questions from the following. All questions carry equal marks.

- 1- Describe in detail the construction & Function of the 'sewer' with sketches.

OR

Explain in detail the requirements of a pumping station.

- 3- How would you check the gradient of a sewer line or

OR

Explain briefly Oxygen demand and State the D.W.F Factors Affecting.