

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) Geysers
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



**SINDH BOARD OF TECHNICAL EDUCATION KARACHI**  
**DIPLOMA OF ASSOCIATE ENGINEER 3rd YEAR**

**MODEL PAPER FOR**

ANNUAL EXAMINATION 2019

Technologies: CIVIL

**SUBJECT: CT-333 PUBLIC HEALTH ENGINEERING-II**

**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 there a 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.