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GIET UNIVERSITY, GUNUPUR – 765022
 B. Tech (Fifth Semester-Regular) Examinations, December – 2022
BPCAG5013 – Agricultural Structure & Environmental control
 (AGE)

Time: 3 hrs

Maximum: 70 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

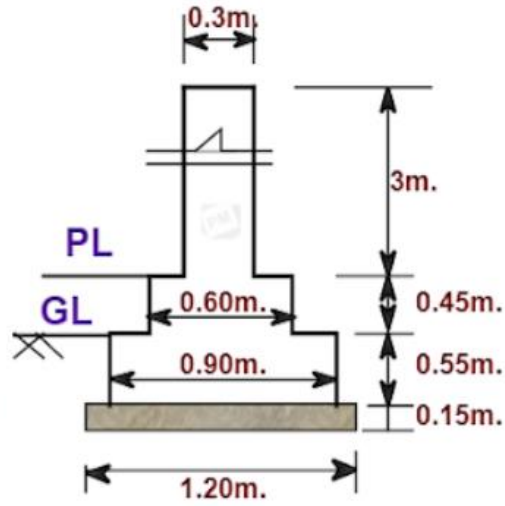
- Q.1. Answer ALL questions [CO#] [PO#]
- a. Which of the following gas is present in the air in maximum amount? CO1 PO1
- i. Nitrogen ii. carbon
- iii. Oxygen iv. argon
- b. The process of changing the solid into a liquid by supplying the heat is called as CO1 PO1
- i. Melting ii. boiling
- iii. Evaporation iv. condensation
- c. Which of the following is said to be a biodegradable waste? CO1 PO1
- i. Glass ii. Plastic bag
- iii. Paper iv. Aluminium
- d. Poultry birds which are exclusively grown for meat are called _____ CO2 PO1
- i. layers ii. cockerel
- iii. rooster iv. broilers
- e. What is maximum storage period of food grain CO2 PO1
- i. 5 month ii. 6 month
- iii. 8 month iv. 7 month
- f. What is turbidity? CO3 PO1
- i. How cloudy the water is ii. How salty the water is
- iii. How soft the water is iv. How sweet the water is
- g. Which is the most common way to purify drinking water CO3 PO1
- i. Coagulants ii. Filters
- iii. Disinfection iv. None of the above
- h. Which of these types of bottled water is safer to drink than tap water CO4 PO1
- i. Mineral water ii. Artesian water
- iii. Spring water iv. None of the above
- i. Self-cleansing velocity is CO4 PO1
- i. Velocity at dry weather flow ii. Velocity of water at flushing
- iii. Velocity at which no accumulation remains in the drains iv. Velocity of water in a pressure filter
- j. Sewer pipes are designed for maximum discharge with 25% to 33% vacant cross-sectional area for CO4 PO1
- i. Unexpected large scale infiltration of stream water ii. Unexpected increase in the population
- iii. Under estimates of maximum and average flows iv. All of the above

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**

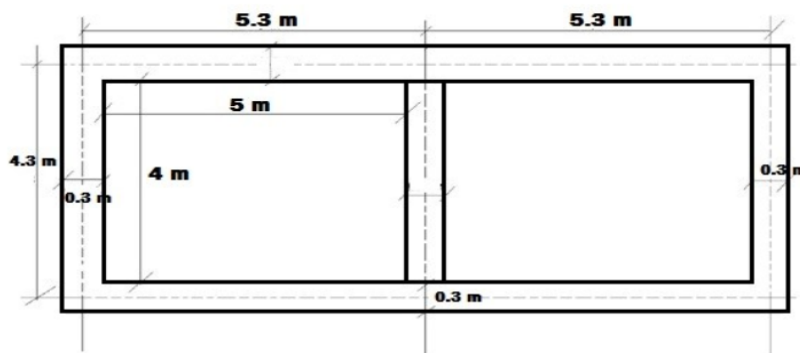
<u>Q.2. Answer ALL questions</u>	[CO#]	[PO#]
a. What do you mean by physiological reaction of livestock?	CO1	PO1
b. Answer any two types of farm structures?	CO1	PO1
c. Explain the BIS standard of dairy farm?	CO2	PO1
d. What are the facilities should have available in a good house? (At least 8 points)	CO1	PO1
e. What is BIS and write the objectives of BIS?	CO2	PO1
f. Write the Specifications for Poultry feeds.	CO2	PO1
g. Mention all the key points of the importance of environmental studies.	CO1	PO1
h. Define Gradient.	CO3	PO1
i. Define Base Course.	CO3	PO1
j. Write various types of sewer systems.	CO4	PO1

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**

<u>Answer ALL questions</u>	Marks	[CO#]	[PO#]
3. a. Explain about the environment along with its components and segments.	5	CO1	PO2
b. Explain types of ventilation in buildings.	5	CO1	PO2
(OR)			
c. Explain all the climatic effects on the animal in detail.	5	CO1	PO2
d. Mention all the key points of the importance of environmental studies and explain.	5	CO1	PO2
4. a. Write short note on Straightness & Smoothness.	5	CO3	PO2
b. Explain Super elevation, Gradient and Camber.	5	CO3	PO2
(OR)			
c. Short notes on Earthen road and WBM road.	5	CO3	PO2
d. Explain the earthwork for roads.	5	CO3	PO2
5. a. Explain the complete water treatment process.	10	CO4	PO2
(OR)			
b. Explain about the site for sewage treatment works and the design aspects of sewage treatment plant.	5	CO4	PO2
c. Explain different types and components of sewer system. Also explain the different types of sewers.	5	CO4	PO2
6. a. Quantity estimate of the substructure of the building using centreline method.	10	CO2	PO3

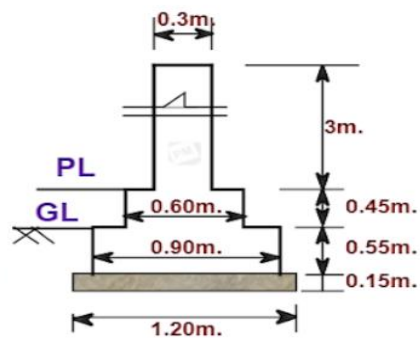
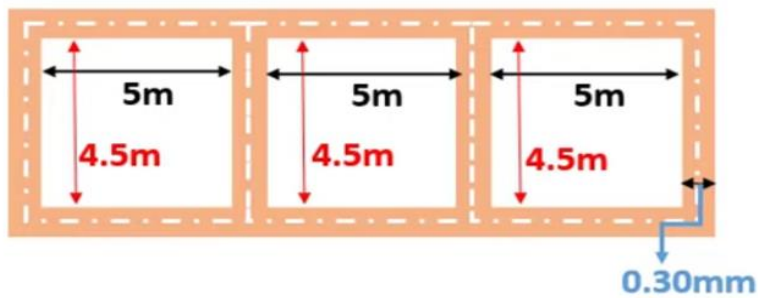


Section-AA



(OR)

- b. Quantity estimate of the substructure of the building using centreline 10 CO2 PO3 method.



Section-AA

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