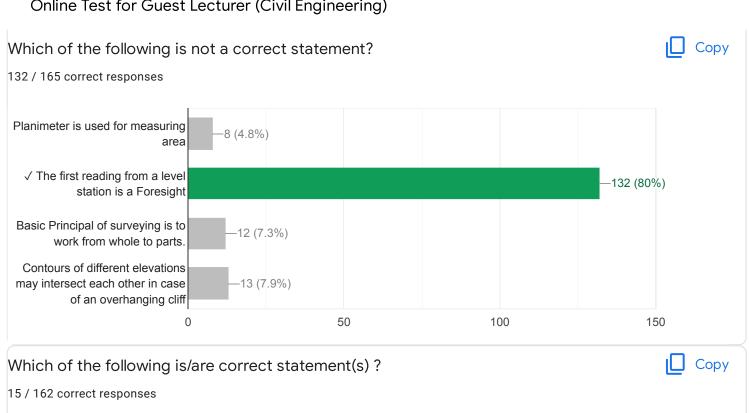
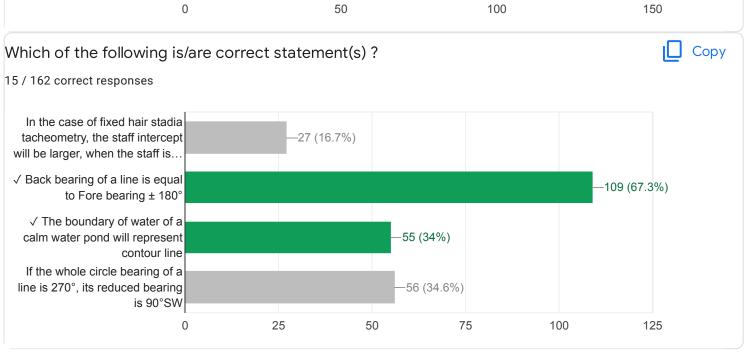


Online Test for Guest Lecturer (Civil Engineering)

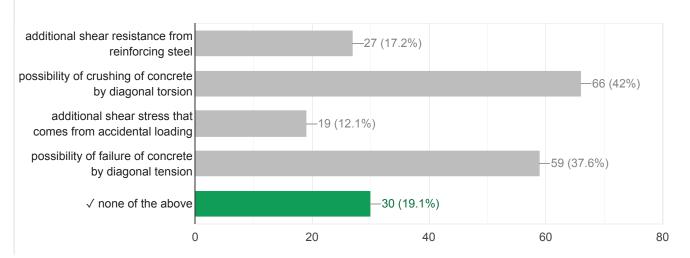




In shear design of an RC Beam, other than the allowable shear strength of concrete, there is also an additional check suggested in IS 456-2000 with respect to the maximum permissible shear stress. The check for max permissible shear stress is/are required to take care of

🔲 Сору

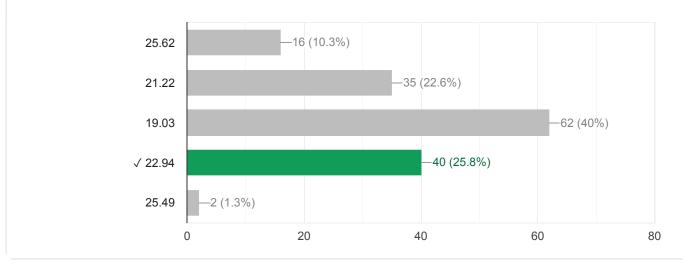
28 / 157 correct responses

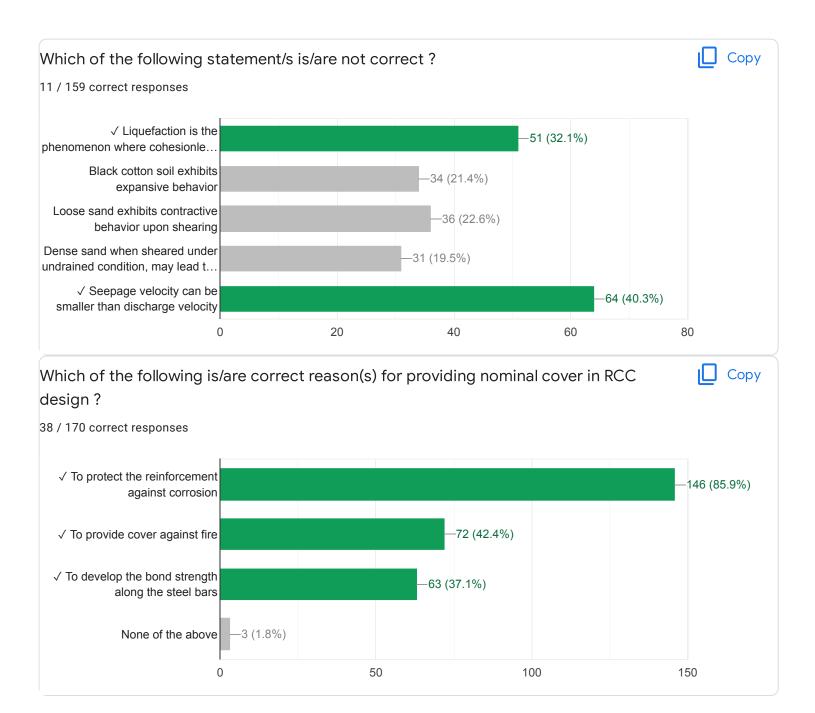


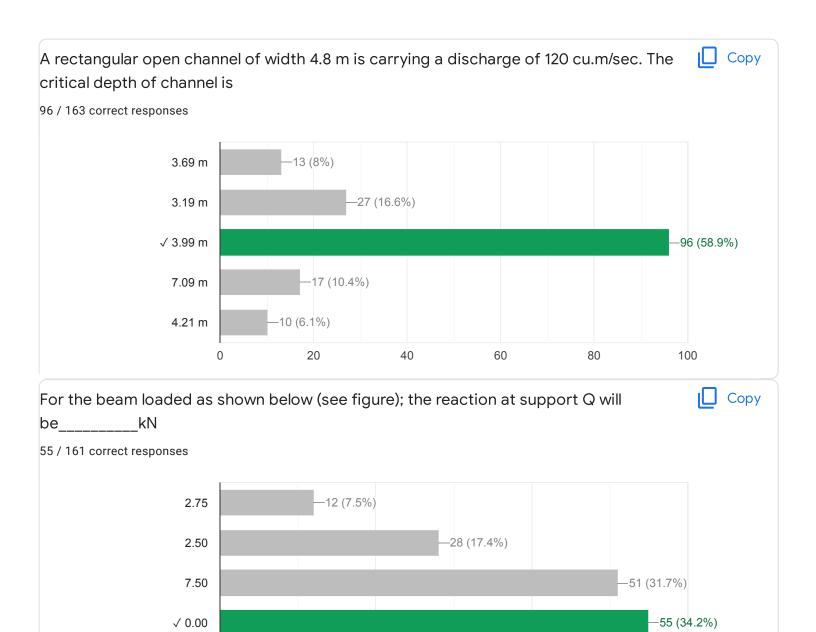
A partially saturated soil mass has bulk unit weight of 25 KN/cu.m and moisture content of 18.5 %. The specific gravity of soil solids is 2.65. On full saturation of soil sample, the unit weight of the soil sample will be_____ KN/cu.m.





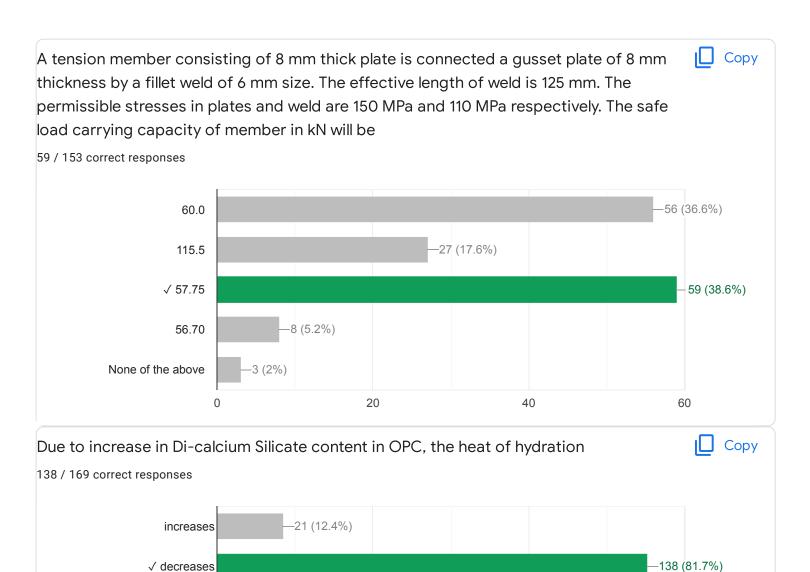






15 (9.3%)

10.00



50

100

150

initially increases and then

increases

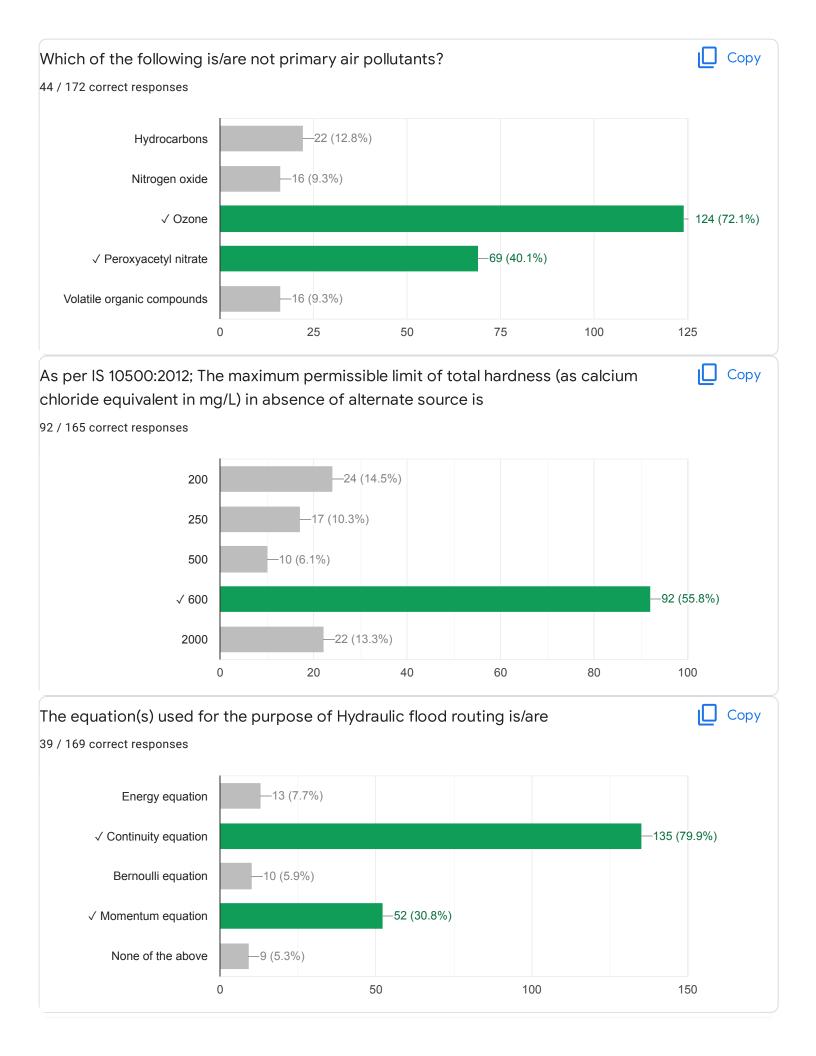
None of the above -0 (0%)

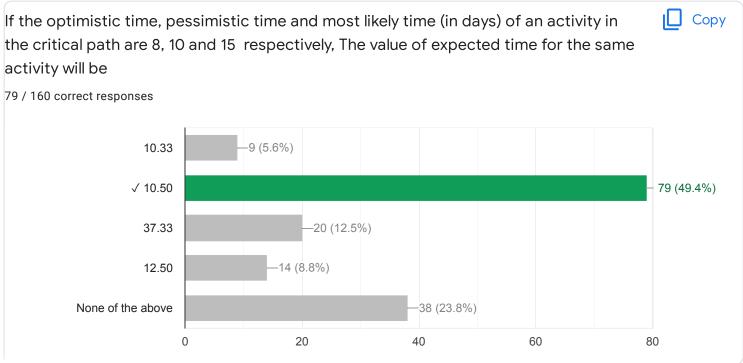
0

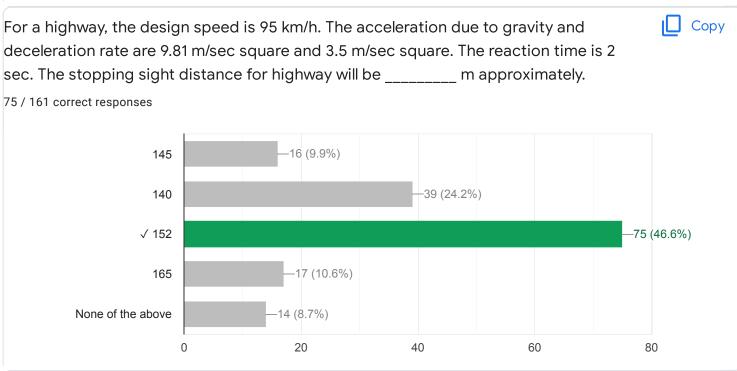
does not change

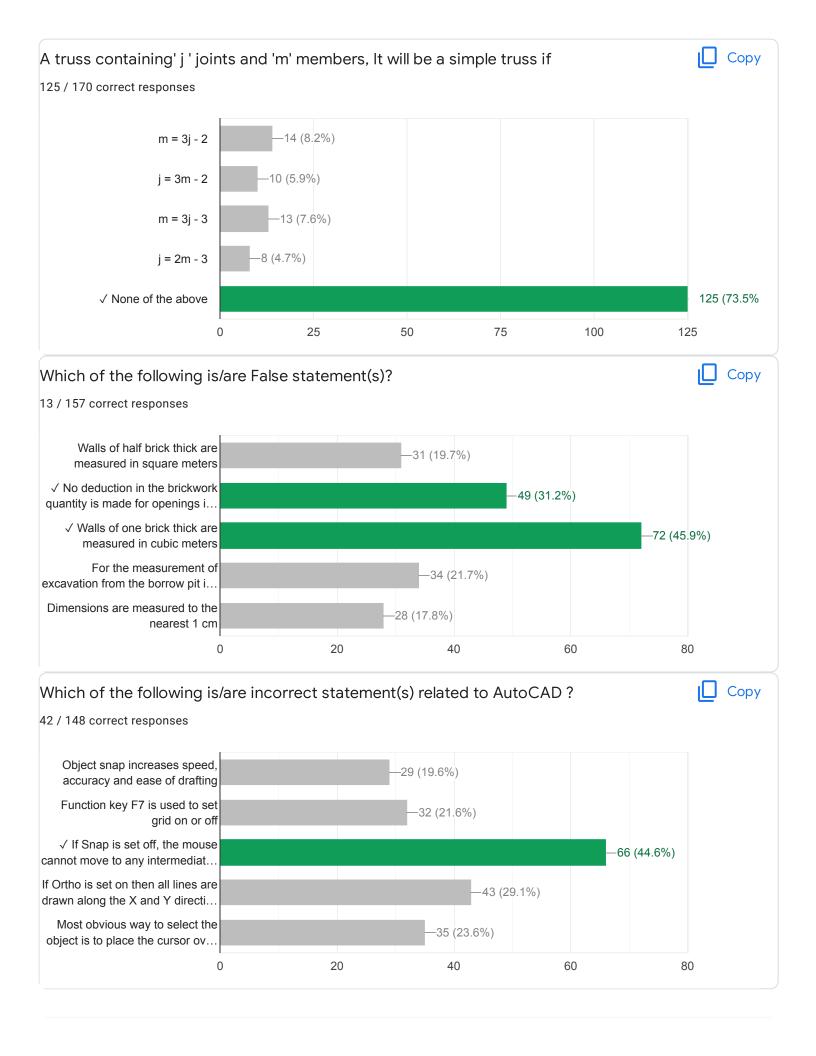
7 (4.1%)

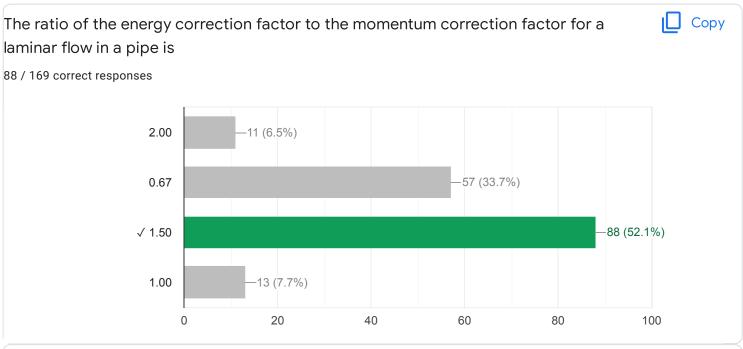
-3 (1.8%)

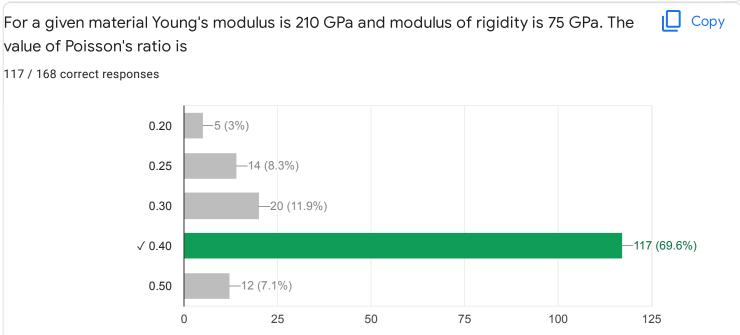












Online Test for Guest Lecturer (Civil Engineering)

Common Test for Government Polytechnic, Katihar, Khagaria and Bhagalpur Date of Test- 31-05-2022, Timing- 11:00 AM to 11:30 AM (Duration= 30 min), Full Marks: 20

IMPORTANT INSTRUCTIONS:-

- 1. Test consists of 20 questions carrying 1 mark each.
- 2. Test consists of Multiple Choice Questions (MCQ) as well as Multiple Select Questions (MSQ); a question may have one correct choice or multiple correct choices.
- 4. Attempt all questions. There is NO negative marking in any types of questions.
- 5. Candidates can SUBMIT only 1 Response.
- 6. Candidates are advised to SUBMIT test on or before 11:30 AM. After that test will be closed

closed.			
* Re	equired		
1.	Email *		
2.	Name of the college applied for * Mark only one oval. Government Polytechnic, Katihar Government Polytechnic, Khagaria Government Polytechnic, Bhagalpur		
3.	Name of Candidate *		
4.	Father's/Husband's Name *		

5.	Date of Birth *	
	Example: January 7, 2019	
6.	Gender *	
	Mark only one oval.	
	Male	
	Female	
7.	Category *	
	Mark only one oval.	
	UR	
	EWS	
	BC	
	EBC	
	SC	
	() ST	
		Common Test for Government Polytechnic, Katihar, Khagaria and Bhagalpur Date of Test- 31-05-2022, Timing- 11:00 AM to 11:30 AM (Duration= 30 min), Full Marks: 20
	Online Test for	IMPORTANT INSTRUCTIONS:-

Online Test for Guest Lecturer (Civil Engineering)

- 1. Test consists of 20 questions carrying 1 mark each.
- 2. Test consists of Multiple Choice Questions (MCQ) as well as Multiple Select Questions (MSQ); a question may have one correct choice or multiple correct choices.
- 4. Attempt all questions. There is NO negative marking in any types of questions.
- 5. Candidates can SUBMIT only 1 Response.
- 6. Candidates are advised to SUBMIT test on or before 11:30 AM. After that test will be closed.

8.	Which of the following is not a correct statement?	1 point
	Mark only one oval.	
	Planimeter is used for measuring area	
	The first reading from a level station is a Foresight	
	Basic Principal of surveying is to work from whole to parts.	
	Contours of different elevations may intersect each other in case of an overhangi cliff	ng
9.	Which of the following is/are correct statement(s)?	1 point
	Check all that apply.	
	In the case of fixed hair stadia tacheometry, the staff intercept will be larger, when the staff is held nearer to the observation point.	:he
	Back bearing of a line is equal to Fore bearing ± 180°	
	The boundary of water of a calm water pond will represent contour line	
	If the whole circle bearing of a line is 270°, its reduced bearing is 90°SW	
10.	In shear design of an RC Beam, other than the allowable shear strength of concrete, there is also an additional check suggested in IS 456-2000 with respect to the maximum permissible shear stress. The check for max permissible shear stress is/are required to take care of	1 point
	Check all that apply.	
	additional shear resistance from reinforcing steel	
	possibility of crushing of concrete by diagonal torsion	
	additional shear stress that comes from accidental loading	
	possibility of failure of concrete by diagonal tension	
	none of the above	

11.	A partially saturated soil mass has bulk unit weight of 25 KN/cu.m and moisture content of 18.5 %. The specific gravity of soil solids is 2.65. On full saturation of soil sample, the unit weight of the soil sample will be KN/cu.m.	1 point
	Mark only one oval.	
	25.62	
	21.22	
	19.03	
	22.94	
	25.49	
12.	Which of the following statement/s is/are not correct ?	1 point
	Check all that apply.	
	Liquefaction is the phenomenon where cohesionless soil near the downstream si dams or sheet-piles loses its shear strength due to high upward hydraulic gradient	de of
	Black cotton soil exhibits expansive behavior	
	Loose sand exhibits contractive behavior upon shearing	
	Dense sand when sheared under undrained condition, may lead to generation of negative pore pressure	
	Seepage velocity can be smaller than discharge velocity	
13.	Which of the following is/are correct reason(s) for providing nominal cover in RCC design?	1 point
	Check all that apply.	
	To protect the reinforcement against corrosion	
	To provide cover against fire	
	To develop the bond strength along the steel bars	
	None of the above	

3.69 m

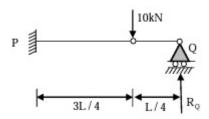
3.19 m

3.99 m

7.09 m

4.21 m

15. For the beam loaded as shown below (see figure); the reaction at support 1 point Q will be_____kN



Mark only one oval.

2.75

2.50

7.50

0.00

10.00

16.	A tension member consisting of 8 mm thick plate is connected a gusset plate of 8 mm thickness by a fillet weld of 6 mm size. The effective length of weld is 125 mm. The permissible stresses in plates and weld are 150 MPa and 110 MPa respectively. The safe load carrying capacity of member in kN will be	1 point
	Mark only one oval.	
	60.0	
	115.5	
	57.75	
	56.70	
	None of the above	
17.	Due to increase in Di-calcium Silicate content in OPC, the heat of hydration	1 point
	Mark only one oval.	
	increases	
	decreases	
	initially increases and then increases	
	does not change	
	None of the above	
18.	Which of the following is/are not primary air pollutants?	1 point
	Check all that apply.	
	Hydrocarbons	
	Nitrogen oxide	
	Ozone	
	Peroxyacetyl nitrate	

Volatile organic compounds

19.	As per IS 10500:2012; The maximum permissible limit of total hardness (as 1 point calcium chloride equivalent in mg/L) in absence of alternate source is
	Mark only one oval.
	200
	250
	500
	600
20.	The equation(s) used for the purpose of Hydraulic flood routing is/are 1 point
	Check all that apply.
	Energy equation
	Continuity equation
	Bernoulli equation
	Momentum equation
	None of the above
21.	If the optimistic time, pessimistic time and most likely time (in days) of an 1 point
	activity in the critical path are 8, 10 and 15 respectively, The value of
	expected time for the same activity will be
	Mark only one oval.
	10.33
	10.50
	37.33
	12.50
	None of the above

22.	For a highway, the design speed is 95 km/h. The acceleration due to gravity and deceleration rate are 9.81 m/sec square and 3.5 m/sec square.	1 point	
	The reaction time is 2 sec. The stopping sight distance for highway will be		
	m approximately.		
	mapproximatory.		
	Mark only one oval.		
	<u> </u>		
	<u> </u>		
	<u></u>		
	<u> </u>		
	None of the above		
23.	A truss containing' j ' joints and 'm' members, It will be a simple truss if	1 point	
	Mark only one oval.		
	m = 3j - 2		
	j = 3m - 2		
	m = 3j - 3		
	j = 2m - 3		
	None of the above		
24.	Which of the following is/are False statement(s)?	1 point	
	Check all that apply.		
	Walls of half brick thick are measured in square meters		
	No deduction in the brickwork quantity is made for openings in walls up to 1 Sq.m area		
	Walls of one brick thick are measured in cubic meters		
	For the measurement of excavation from the borrow pit in a fairly uniform ground, men are left at suitable intervals	dead	
	Dimensions are measured to the nearest 1 cm		

25.	Which of the following is/are incorrect statement(s) related to AutoCAD? 1 point
	Check all that apply.
	Object snap increases speed, accuracy and ease of drafting Function key F7 is used to set grid on or off
	If Snap is set off, the mouse cannot move to any intermediate point between the dots of the grid
	If Ortho is set on then all lines are drawn along the X and Y direction only.
	Most obvious way to select the object is to place the cursor over the object, click the mouse button
26.	The ratio of the energy correction factor to the momentum correction 1 point factor for a laminar flow in a pipe is
	Mark only one oval.
	2.00
	0.67
	1.50
	1.00
27.	For a given material Young's modulus is 210 GPa and modulus of rigidity is 1 point 75 GPa. The value of Poisson's ratio is
	Mark only one oval.
	0.20
	0.25
	0.30
	0.40
	0.50

Google Forms