



9497498415 | 16 | 17

ANSWER KEY

**QUIZ NO: 752** 

**TOPIC: FLUID MECHANICS** 

**DATE: 24/08/2023** 

- 1. Pick up the correct statements from the following

  The condition for stable equilibrium of a floating body is
  - [A] M above G
  - [B] M below G
  - [C] B above G
  - [D] Metacentric height is negative

**Answer: A** 

- 2. Pick up the incorrect statement about buoyant force
  - [A] It always at vertically upwards
  - [B] It is equal to weight of the fluid displaced by solid body
  - [C] It acts through centre of gravity of displaced volume
  - [D] None of the above

**Answer: D** 





## 9497498415

ANSWER KEY

3.	B is below G, then the submerged body will be in equilibrium
	[A] Stable
	[B] Unstable
	[C] Neutral
	[D] None of the above
	Answer: B
4.	The terminal velocity of a sphere settling in a viscous fluid varies as
	[A] Reynold's number
	[B] Inversely proportional to viscosity
	[C] Directly proportional to viscosity
	[D] Its diameter
	Answer: B
_	
5.	Flow at critical depth takes place in an open channel when
	[A] For a given specific energy, discharge is maximum
	[B] For a given discharge, specific energy is minimum
	[C] Discharge is minimum for a given specific force
	[D] Discharge is maximum for a given specific force

**Answer: B** 

### To PURCHASE Our COURSES

10 1 CRCIMBL Our COURSES						
LIVE CLASSES	DIRECT CLASSES					
	Assistant Engineer - Civil					
Assistant Engineer Standard 2023	Overseer Grade I					
	GATE 2024					
Assistant Engineer Courses	Overseer Courses					
	Overseer Grade I					
Assistant Engineer/ Overseer Grade I	Junior Instructor Surveyor					
	Irrigation LSGD Overseer					
GATE 2024 Civil Prerecorded						
TEST SERIES (With detailed solution)						
Online Test Series Combo	AE PCB Test series					
AE Test Series	SSC JE Subject wise					
OVERSEER Test Series	GATE 2024 - Test Series					
ISRO Test Series	Full length tests – GATE					
SSC JE CIVIL Test Series	Topicwise tests for GATE					
SSC JE Full Length Tests	Subjectwise Test series – GATE					
e - BOOKS						
HANDWRITTEN NOTES – e- book	Quick Reference For AE and Overseer – e Book					
e – Book for Civil Engineering INTERVIEWS	Overseer PYQ detailed – e Book					
150 PYQ e - book	Civil Engineering MCQ – e Book					
Mechanical Engineering e - Book	GATE Civil Engineering - e Book					



സിവിൽ എഞ്ചിനിയറിംഗ് മത്സരപരീക്ഷകൾക്കായി ഇനി ഒരൊറ്റ കോഴ്സ്





ENROLL NOW 82 81 00 33 66

Pre-Recorded Classes

To Connect with us



elearncivilianz@gmail.com



9497 498 415



civilianz





Clubhouse



Civilianz Blog



Civilianz\_official



Civil study Circle



Civilianz

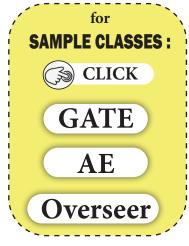


CLICK

WWW.CIVILIANZ.COM



Telegram Job Channel







# 9497498415 | 16 | 17

ANSWER KEY

6.	Rev	nolds	's	number	for	turbu	lent	flow	in	open	channe	l is
----	-----	-------	----	--------	-----	-------	------	------	----	------	--------	------

[A] < 2000

[B] > 2000

[C] = 4000

[D] < 500

**Answer: B** 

#### 7. In a steady spatially varied flow in a prismatic open channel, the

- [A] Depth does not change along the length
- [B] Discharge is constant along the length
- [C] Discharge varies along the length
- [D] Discharge varies with time

**Answer: C** 

# 8. While defining Froude's number applicable to channels of any shape, the length parameter used is:

- [A] Hydraulic radius
- [B] Wetted perimeter
- [C] Hydraulic diameter
- [D] Depth of flow

**Answer: C** 





## 9497498415 | 16 | 17

9. The dimension of hydraulic mean depth is \_\_\_\_\_

ANSWER KEY

[A] L
[B] M
[C] T
[D] L <sup>2</sup>
Answer: A
10.A rectangular channel has a width of 5m and bed slope of 0.001. for
a uniform flow of depth 2m, the velocity is 2m/s. the manning's
roughness coefficient is:
[A] 0.050

Join our social media platforms



[B] 0.002

[C] 0.033

[D] 0.017

**Answer: D** 







