

D. All of the above

[Clear my choice](#)

Question 34

Not yet answered

Marked out of 1.00

Flag question

The OD mass of an aggregates sample is 1200 g. If the SSD mass of the same sample is 1332 g. Determine the total volume of the voids in the sample.

Select one:

- A. 666.00 cm³
- B. 232.00 cm³
- C. 432.00 cm³
- D. 132.00 cm³
- E. 312.00 cm³

[Clear my choice](#)

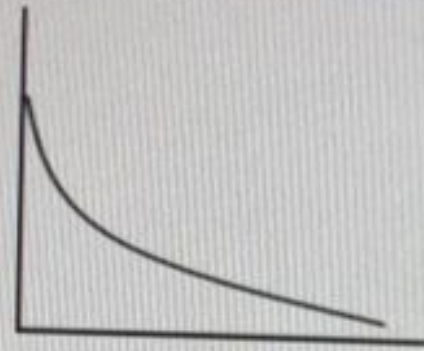
Finish attempt ...

Question 32

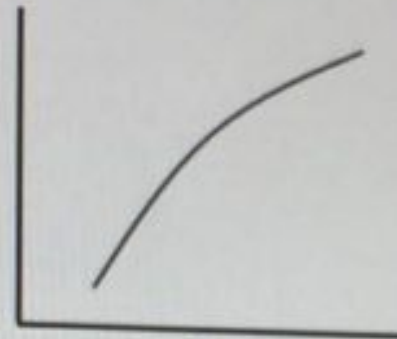
Not yet answered

Marked out of 1.00

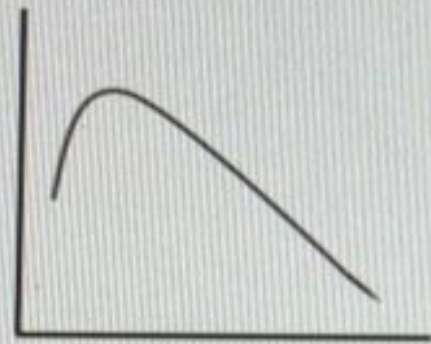
Flag question



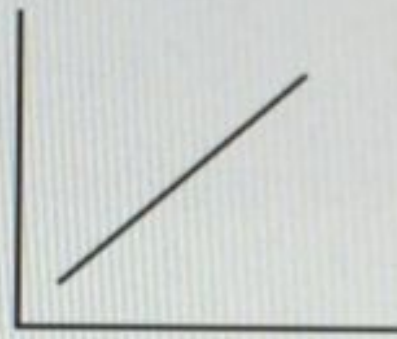
C1



C2



C3



C4

From the figures above, the curve that represents the time - consistency relationship of fresh concrete is

Select one:

- A. C1
- B. C2
- C. C4
- D. C3

D. Case 1 only

[Clear my choice](#)

Question 31

Not yet answered

Marked out of 1.00

Flag question

Select the correct statements from the following:

Select one:

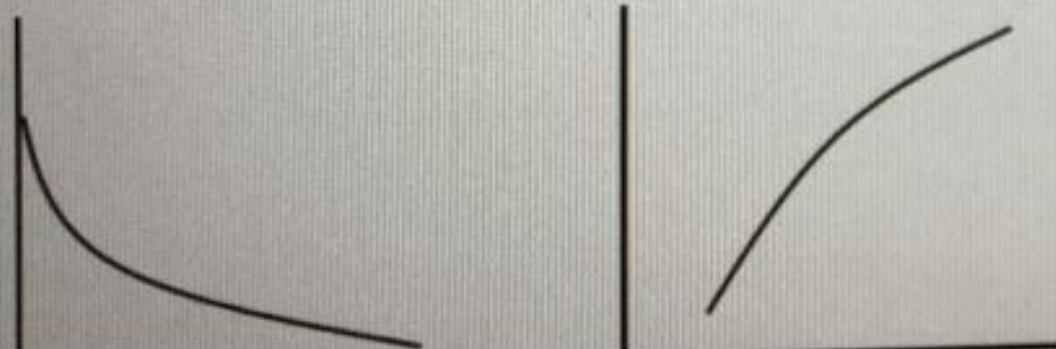
- A. Slump test is the ideal and most accurate test of concrete workability.
- B. Slump, Vebe, and Compaction factor tests are directly related to each other.
- C. Among the workability tests, slump, compaction factor, and Vebe, the last is more subjected to human errors.
- D. The treatment of concrete during the Compacting Factor Test is closely related to the method of placing in practice.

[Clear my choice](#)

Question 32

Not yet answered

Marked out of 1.00



29

ot of

An aggregate particle is taken from the retained at the 9.5 mm sieve. If the measured dimensions of the particle are approximated as 20mm X 8mm X 8mm. Thus, this aggregate particle can be classified as:

Select one:

- A. Spherical particle
- B. Angular particle
- C. Elongated particle
- D. Flaky particle
- E. Smooth particle

0

The results of a laboratory experiment to evaluate the effects of a plasticizer are shown below:

Quiz navigation

part 1

- 1
- 2
- 3
- 4

part 2

- 8
- 9
- 10
- 11

Part 3

- 15
- 16
- 17
- 18

Part 4

- 22
- 23
- 24
- 25



Question 33

Not yet answered

Marked out of 1.00

Flag question

Reasons for using chemical admixtures includes:

Select one:

- A. To overcome certain emergencies during concreting operations
- B. To achieve a higher concrete strength by decreasing the water/cement ratio
- C. To increase the mix workability
- D. All of the above

[Clear my choice](#)

Question 34

Not yet answered

Marked out of 1.00

The OD mass of an aggregates sample is 1200 g. If the SSD mass of the same sample is 1332 g. Determine the total volume of the voids in the sample.

Select one:

- A. 666.00 cm³

D. Case 1 only

Question 32

Not yet answered

Marked out of 1.00

Flag question

A concrete mix includes the following ingredients per cubic meter:

Cement = 300 Kg

Water = 150 Kg

No admixture

If a water reducer is added to the mix without changing the quantities of cement and water then:

Select one:

- A. Workability of the mix will increase, while strength will remain approximately the same.
- B. Neither workability nor strength of the mix will increase significantly.
- C. Strength of the mix will increase, while workability will remain approximately the same
- D. Both mix workability and strength will increase significantly.

Question 33

Not yet answered

Marked out of 1.00

Select the correct statements from the following:

Select one:

- A. The concrete aggregates of high absorption capacity can reduce slump loss.

Mid

احمد عودة: يخوان هاي

Pick the correct statement from the following

Select one:

- A. The water-cement ratio is the main influencing factor on concrete total porosity
- B. Abrams law state that the strength of concrete can be taken to be inversely proportional to the water/cement ratio only.
- C. Angular and rough aggregates can increase the compressive strength of concrete significantly.
- D. Changes in the structure of the interfacial transition zone can affect the compressive strength of concrete on the order of 30%.

Pick out the correct statement from the following

Select one:

- A. Gypsum, additives, and admixtures are added to the cement during the Mill Grinding stage.
- B. Early Belite is formed in the cement kiln on during the calcination process when the temperature is about 700 to 900 degrees Celsius.
- C. The amount of added gypsum to cement depends only on the percentages of the C_3A in the cement being produced

D. Slump or Compaction factor test

Final attempt ...

Time left 0:12:42

Question 31

Not yet answered

Marked out of 1.00

Flag question

The results of a laboratory experiment to evaluate the effects of a plasticizer are shown below.

	Without Water Reducer	With Water Reducer		
		Case 1	Case 2	Case 3
Cement Content, kg/m ³	850	850	850	765
Water Content, kg/m ³	465	465	370	419
Slump, mm	50	100	50	50
Compressive Strength, MPa	37.8	38.0	46	37.9

Identify the case where the water reducer admixtures were used to increase the compressive strength of concrete without changing workability

Select one:

- A. Case 3 only
- B. Case 2 only
- C. Case 2 and 3
- D. Case 1 only

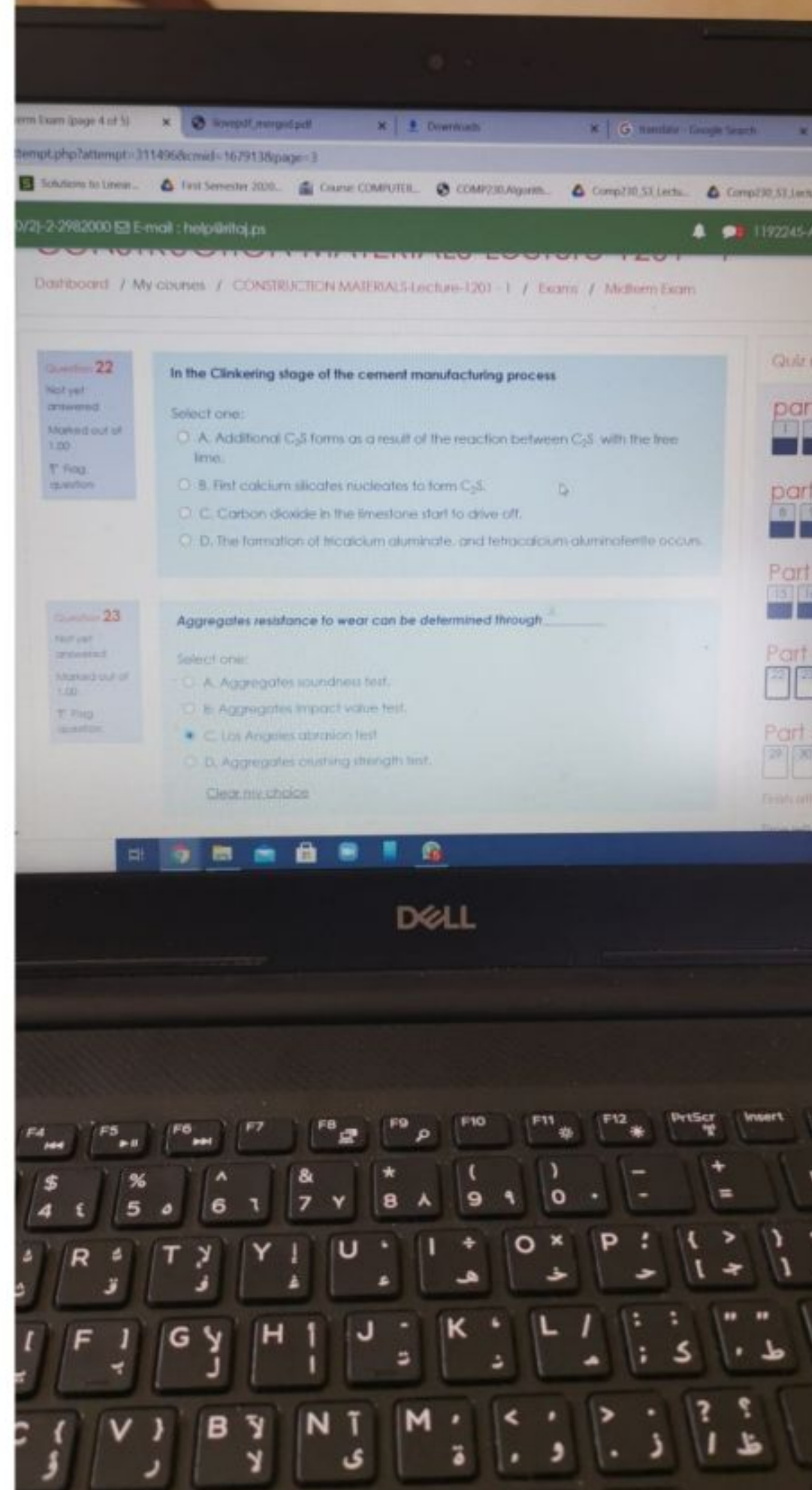
Question 32

Not yet

A concrete mix includes the following ingredients per cubic meter:

Cement = 300 Kg

Water = 150 Kg



Exam Exam (page 4 of 5) x [viewpdf_merged.pdf](#) x Downloads x [Translate - Google Search](#) x
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Solutions to Linear... First Semester 2000... Course COMPUTER... COMP230Algorith... Comp230_S1_Lect... Comp230_S1_Lect...

0/2) - 2-2982000 E-mail : help@birtaj.ps 1192245-Ab

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Question 22
Not yet answered
Marked out of 1.00
Flag question

In the Clinkering stage of the cement manufacturing process
Select one:
 A. Additional C_2S forms as a result of the reaction between C_2S with the free lime.
 B. First calcium silicates nucleates to form C_2S .
 C. Carbon dioxide in the limestone start to drive off.
 D. The formation of tricalcium aluminate, and tetra calcium aluminoferrite occur.

Question 23
Not yet answered
Marked out of 1.00
Flag question

Aggregates resistance to wear can be determined through _____
Select one:
 A. Aggregates soundness test.
 B. Aggregates impact value test.
 C. Los Angeles abrasion test.
 D. Aggregates crushing strength test.
Clear my choice

Quiz no
part 1
part 2
part 3
Part 3
Part 4
Part 5
Finish after

Clear my choice

Question 25
Not yet answered
Marked out of 1.00
Flag question

Select from the following, the type of admixture that you will use it:
Formwork have to be removed as early as possible (So High early strength concrete is required, but not necessarily high ultimate strength).

Select one:

- A. hydration-control admixture
- B. Shrinkage reducers
- C. Accelerator admixture
- D. Type B admixture

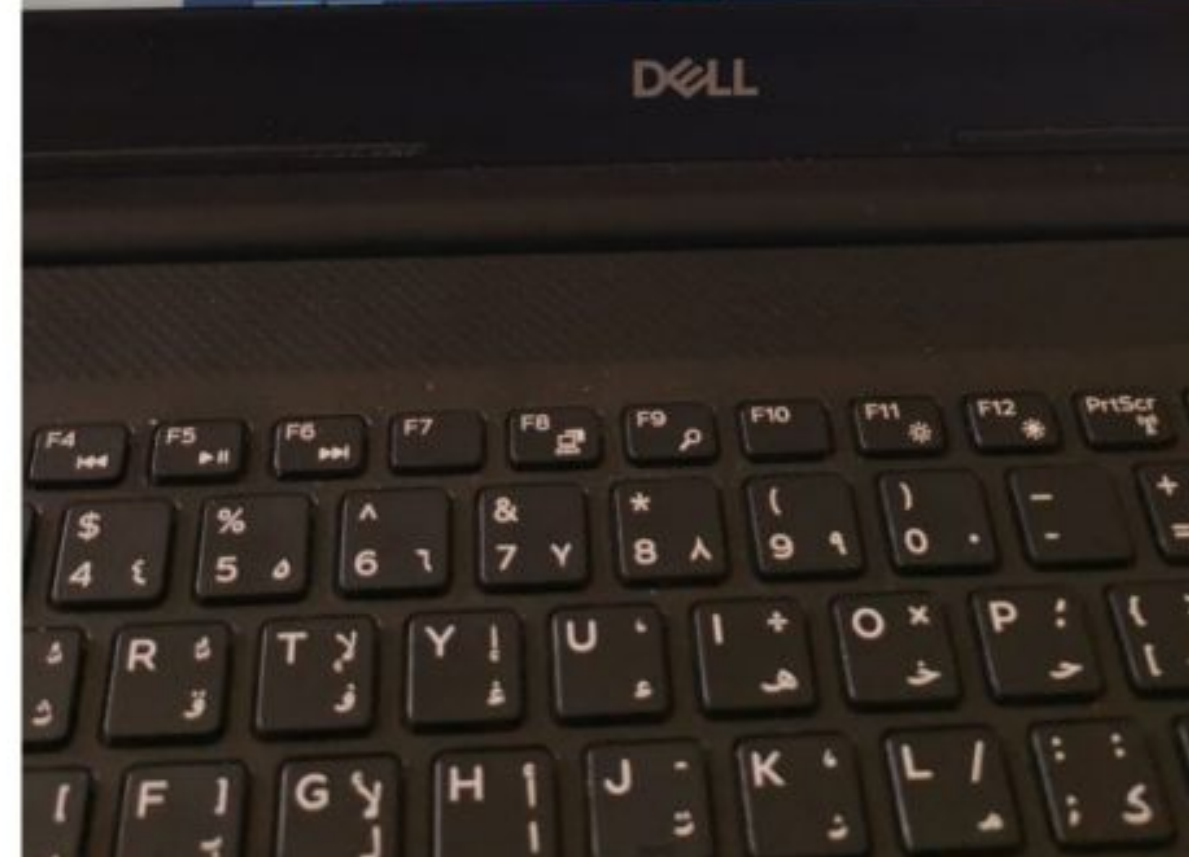
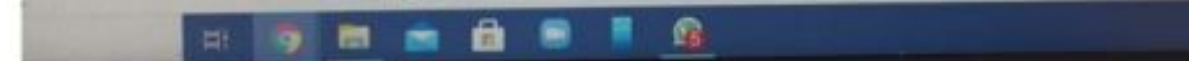
Question 26
Not yet answered
Marked out of 1.00
Flag question

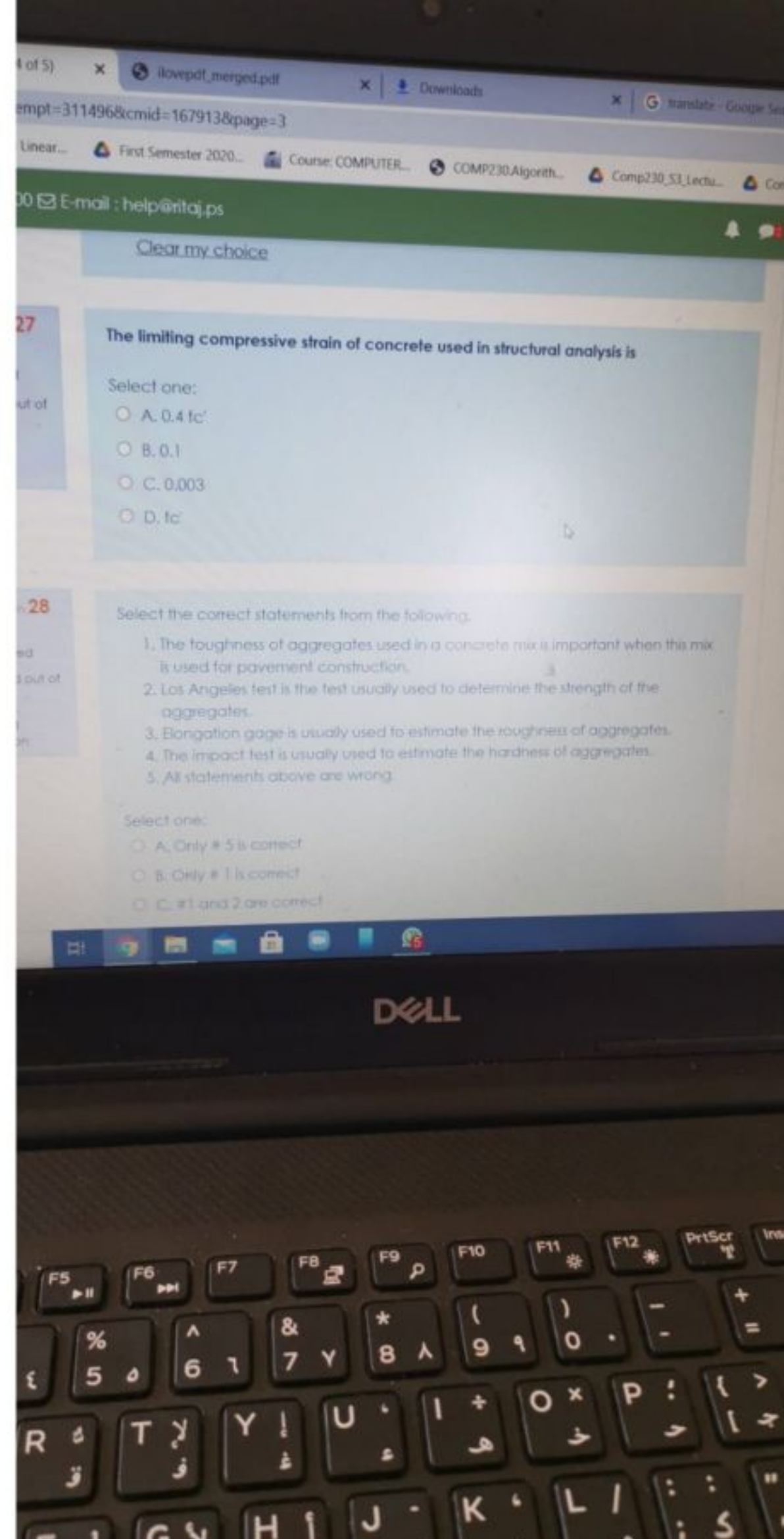
The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if the casted concrete has been compacted properly.
- B. To determine if concrete formwork can be removed.
- C. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
- D. To detect potential problems with concrete quality.

Clear my choice





E-mail : help@rita.jps

Clear my choice

27

The limiting compressive strain of concrete used in structural analysis is

Select one:

- A. 0.4 f_c'
- B. 0.1
- C. 0.003
- D. f_c'

28

Select the correct statements from the following.

1. The toughness of aggregates used in a concrete mix is important when the mix is used for pavement construction.
2. Los Angeles test is the test usually used to determine the strength of the aggregates.
3. Elongation gage is usually used to estimate the roughness of aggregates.
4. The impact test is usually used to estimate the hardness of aggregates.
5. All statements above are wrong.

Select one:

- A. Only # 5 is correct
- B. Only # 1 is correct
- C. #1 and 2 are correct

Question 29

Not yet answered

Marked out of 1.00

Flag question

Given that the absorption capacity of a sample of aggregates is 8.2% and the oven-dry mass of the sample is 1000 g. Determine the mass of water that this sample can absorb.

Select one:

- A. 41.00
- B. 0.82
- C. 8.20
- D. 82.00
- E. 820.00

Question 30

Not yet answered

Marked out of 1.00

Flag question

The most suitable test to determine the workability of a stiff concrete mix is

Select one:

- A. Compaction factor test
- B. Slump test
- C. Vebe test
- D. Slump or Compaction factor test

Question 31

The results of a laboratory experiment to evaluate the effects of a plasticizer are

Quiz navigation

part 1

- 1
- 2
- 3
- 4
- 5
- 6
- 7

part 2

- 8
- 9
- 10
- 11
- 12
- 13
- 14

Part 3

- 15
- 16
- 17
- 18
- 19
- 20
- 21

Part 4

- 22
- 23
- 24
- 25
- 26
- 27
- 28

Part 5

- 29
- 30
- 31
- 32
- 33
- 34

Finish attempt ...

Time left 0:12:50

CONSTRUCTION MATERIALS-Lecture-1201 - 1

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Question 22

Not yet answered

Marked out of 1.00

Flag question

If the total porosity of cement paste is given by $p_t = (W/C + a/C - 0.17h) / (0.317 + W/C + a/C)$, calculate the W/C ratio given that: full hydration, zero air in the paste and total paste porosity of 0.5.

Select one:

- A. 0.57
- B. 0.66
- C. 0.77
- D. 0.44

[Clear my choice](#)

Question 23

Not yet answered

The 7-days compressive strength test of concrete is usually carried out:

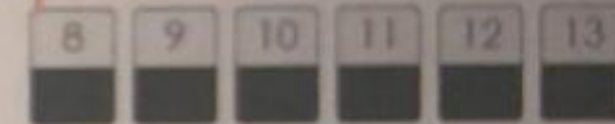
Select one:

Quiz navigation

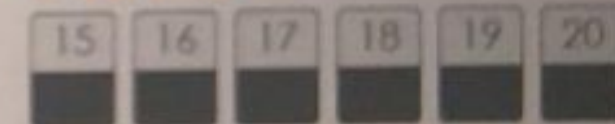
part 1



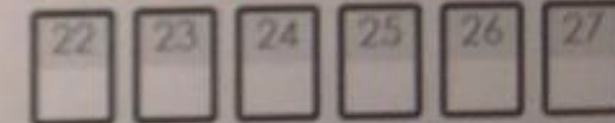
part 2



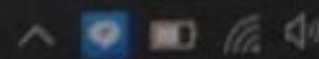
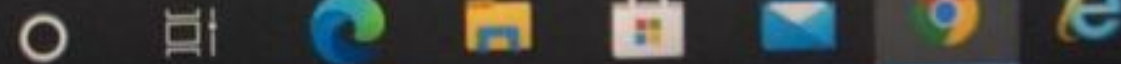
Part 3



Part 4



Type here to search



- C. 0.77
- D. 0.44

[Clear my choice](#)

Question 23

Not yet answered
Marked out of 1.00
Flag question

The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
- B. To detect potential problems with concrete quality.
- C. To determine if concrete formworks can be removed.
- D. To determine if the casted concrete has been compacted properly.

[Clear my choice](#)

Question 24

Not yet answered
Marked out of 1.00

The shorthand formula of $6CaO \cdot Al_2O_3 \cdot Fe_2O_3 \cdot 12H_2O$ is

Select one:

- A. C_6AFH_{12}

Part 3

- 15
- 16
- 17
- 18
- 19
- 20

Part 4

- 22
- 23
- 24
- 25
- 26
- 27

Part 5

- 29
- 30
- 31
- 32
- 33
- 34

Finish attempt ...

Time left 0:16:25

Flag question

criteria in the specifications.

- B. To detect potential problems with concrete quality.
- C. To determine if concrete formworks can be removed.
- D. To determine if the casted concrete has been compacted properly.

[Clear my choice](#)

Part 5

29 30 31 32

Finish attempt ...

Time left 0:16:30

Question 24

Not yet answered

Marked out of 1.00

Flag question

The shorthand formula of $6\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3 \cdot 12\text{H}_2\text{O}$ is

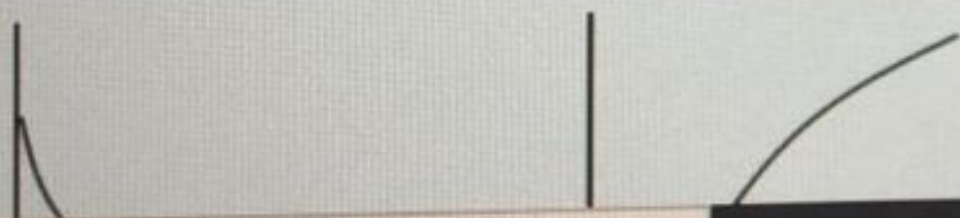
Select one:

- A. $\text{C}_6\text{AFH}_{12}$
- B. $\text{C}_6\text{AlH}_{12}$
- C. $\text{S}_6\text{AlH}_{12}$
- D. CA_6FH

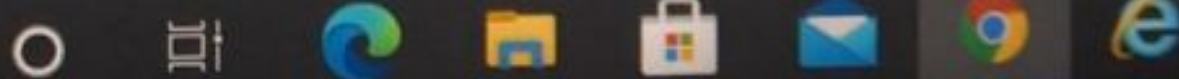
[Clear my choice](#)

Question 25

Not yet answered



Type here to search

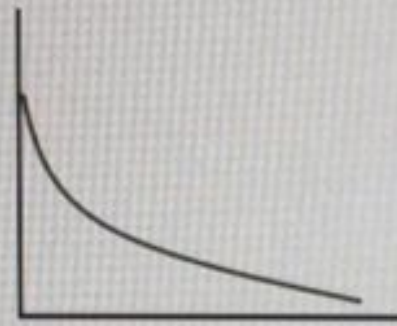


Question 25

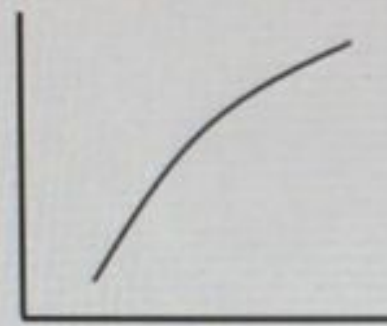
Not yet answered

Marked out of 1.00

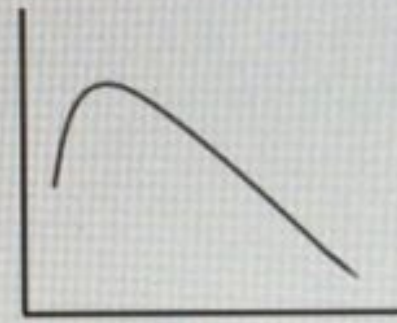
Flag question



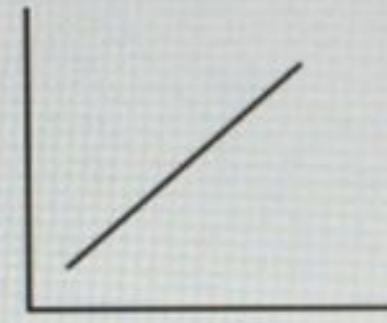
C1



C2



C3



C4

From the figures above, the curve that represents the water content - consistency relationship of fresh concrete is

Select one:

- A. C4
- B. C2
- C. C3
- D. C1

[Clear my choice](#)

- C. Accelerator admixture
- D. Type B admixture

Question 26

Not yet answered

Marked out of 1.00

Flag question

The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if the casted concrete has been compacted properly.
- B. To determine if concrete formworks can be removed.
- C. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
- D. To detect potential problems with concrete quality.

[Clear my choice](#)

Question 27

Not yet answered

Marked out of 1.00

Flag question

The limiting compressive strain of concrete used in structural analysis is

Select one:

- A. $0.4 f_c'$
- B. 0.1
- C. 0.003

[Clear my choice](#)

Question 27

Not yet answered

Marked out of 1.00

Flag question

Select from the following, the type of admixture that you will use if:

The work will be carried out in Jericho during the month of August

Select one:

- A. Accelerator admixture
- B. Type B admixture
- C. Type G admixture
- D. Air Entrainer

[Clear my choice](#)

Question 28

Not yet answered

Marked out of

Aggregates resistance to wear can be determined through _____

Select one:

- A. Aggregates Impact value test.



Type here to search



- B. Type B admixture
- C. Type G admixture
- D. Air Entrainer

[Clear my choice](#)

Question 28

Not yet answered

Marked out of 1.00

Flag question

Aggregates resistance to wear can be determined through _____

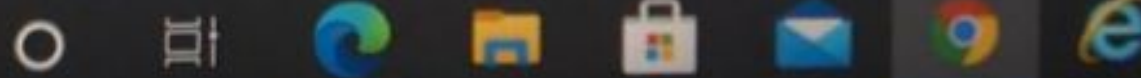
Select one:

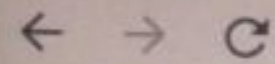
- A. Aggregates Impact value test.
- B. Los Angeles abrasion test
- C. Aggregates crushing strength test.
- D. Aggregates soundness test.

[Clear my choice](#)

Next page

Type here to search





Clear my choice

Question 26

Not yet answered

Marked out of 1.00

Flag question

The rough texture aggregates used in a concrete mix

Select one:

- A. Does not have any measurable effect on the concrete mix.
- B. Can improve the adherence of aggregate particles with the cement paste.
- C. Can increase the internal friction between particles thus improving the workability of the concrete mix.
- D. Can reduce the required cement paste quantity.
- E. Can significantly improve concrete durability.

Clear my choice

Question 27

Not yet answered

Marked out of

Select from the following, the type of admixture that you will use if:

The work will be carried out in Jericho during the month of August

CONSTRUCTION MATERIALS-Lecture-1201 - 1

Badges

Competencies

Grades

General

Lectures

Learning Material

Assignments

Quizzes

Exams

Topic 6

Topic 7

Topic 8

Type here to search

Question 22

Not yet answered

Marked out of 1.00

Flag question

In the Clinkering stage of the cement manufacturing process

Select one:

- A. Additional C_3S forms as a result of the reaction between C_2S with the free lime.
- B. First calcium silicates nucleates to form C_2S .
- C. Carbon dioxide in the limestone start to drive off.
- D. The formation of tricalcium aluminate, and tetracalcium aluminoferrite occurs.

Question 23

Not yet answered

Marked out of 1.00

Flag question

Aggregates resistance to wear can be determined through _____

Select one:

- A. Aggregates soundness test.
- B. Aggregates Impact value test.
- C. Los Angeles abrasion test
- D. Aggregates crushing strength test.

[Clear my choice](#)

Question 24

Not yet answered

Considering Bleeding in the concrete mix, pick out all wrong statements from the following:

Quiz navigation

part 1

- 1
- 2
- 3
- 4
- 5
- 6
- 7

part 2

- 8
- 9
- 10
- 11
- 12
- 13
- 14

Part 3

- 15
- 16
- 17
- 18
- 19
- 20
- 21

Part 4

- 22
- 23
- 24
- 25
- 26
- 27
- 28

Part 5

- 29
- 30
- 31
- 32
- 33
- 34

Finish attempt ...

Time left 0:19:07

D. Aggregates crushing strength test.

[Clear my choice](#)

Question 24

Not yet answered

Marked out of 1.00

[Flag question](#)

Considering Bleeding in the concrete mix, pick out all wrong statements from the following:

1. Bleeding is a type of segregation.
2. When bleeding occurs, the strength of concrete increases significantly as bleeding reduces the initial W/C ratio.
3. Bleeding can increase the amount and size of voids in the hardened concrete.
4. Bleeding can reduce the bond between steel reinforcement and concrete.

Select one:

- A. # 4 only
- B. # 2 only
- C. #3 only
- D. # 1 and 2
- E. #1 and 4

Part 5

29 30 31 32 33 34

Finish attempt ...

Time left 0:19:02

Question 25

Select from the following, the type of admixture that you will use if:

11:00
03/12/2020

D. # 1 and 2

E. #1 and 4

Question 25

Not yet answered

Marked out of 1.00

Flag question

Select from the following, the type of admixture that you will use if:

Formwork have to be removed as early as possible (So High early strength concrete is required, but not necessarily high ultimate strength).

Select one:

A. hydration-control admixture

B. Shrinkage reducers

C. Accelerator admixture

D. Type B admixture

Question 26

Not yet answered

Marked out of 1.00

Flag question

The 7-days compressive strength test of concrete is usually carried out:

Select one:

A. To determine if the casted concrete has been compacted properly.

B. To determine if concrete formworks can be removed.

C. To determine if the delivered concrete fails to comply with the acceptance



Question 28

Not yet answered

Marked out of 1.00

Flag question

Select the correct statements from the following.

1. The toughness of aggregates used in a concrete mix is important when this mix is used for pavement construction.
2. Los Angeles test is the test usually used to determine the strength of the aggregates.
3. Elongation gage is usually used to estimate the roughness of aggregates.
4. The impact test is usually used to estimate the hardness of aggregates.
5. All statements above are wrong.

Select one:

- A. Only # 5 is correct
- B. Only # 1 is correct
- C. # 1 and 2 are correct
- D. # 1, 2 and 4 are correct
- E. # 2 and 4 are correct

Next page



CONSTRUCTION MATERIALS-Lecture-1201

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Pick the correct statement from the following

Select one:

- A. The water-cement ratio is the main influencing factor on concrete total porosity
- B. Abrams law state that the strength of concrete can be taken to be inversely proportional to the water/cement ratio only.
- C. Angular and rough aggregates can increase the compressive strength of concrete significantly.
- D. Changes in the structure of the interfacial transition zone can affect the compressive strength of concrete on the order of 30%.

Pick out the correct statement from the following

Select one:

- A. Gypsum, additives, and admixtures are added to the cement during the Mill Grinding stage.

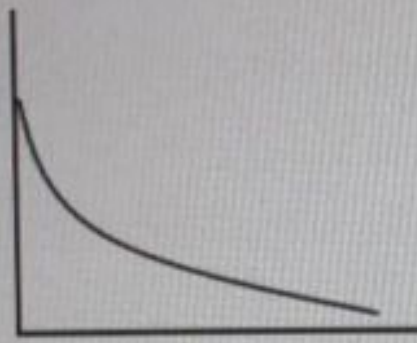
2-in-1 Device

Question 25

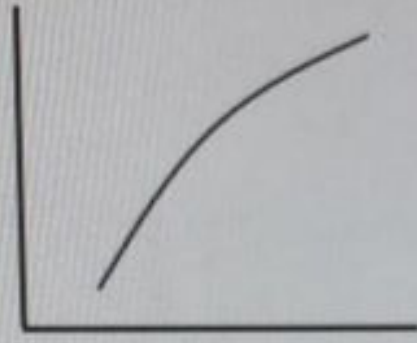
Not yet answered

Marked out of 1.00

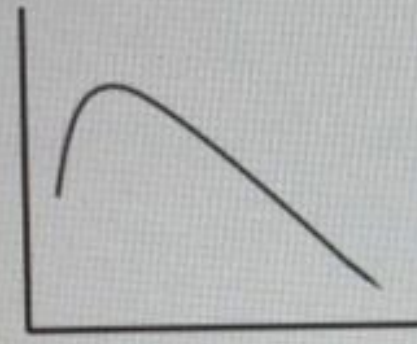
Flag question



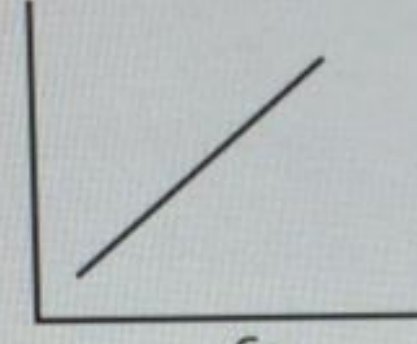
C1



C2



C3



C4

From the figures above, the curve that represents the water content - consistency relationship of fresh concrete is

Select one:

- A. C4
- B. C2
- C. C3
- D. C1

[Clear my choice](#)



Type here to search



- E. Can significantly improve concrete durability.

Clear my choice

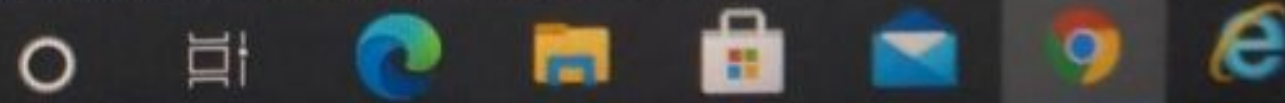
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The work will be carried out in Jericho during the month of August

Select one:

- A. Accelerator admixture
- B. Type B admixture
- C. Type G admixture
- D. Air Entrainer

Type here to search



question

- ... concrete formworks can be removed.
- C. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
 - D. To detect potential problems with concrete quality.

[Clear my choice](#)

Question 27

Not yet answered

Marked out of 1.00

[Flag question](#)

The limiting compressive strain of concrete used in structural analysis is

Select one:

- A. $0.4 f_c'$
- B. 0.1
- C. 0.003
- D. f_c'

Question 28

Not yet answered

Marked out of 1.00

[Flag question](#)

Select the correct statements from the following.

1. The toughness of aggregates used in a concrete mix is important when this mix is used for pavement construction.
2. Los Angeles test is the test usually used to determine the strength of the aggregates.
3. Elongation gage is usually used to estimate the roughness of aggregates.

- D. As concrete with high workability has also a high

[Clear my choice](#)

Select from the following, the type of admixture that you will use

There is a large quantity of freshly mixed concrete (4-5 mixers) stop for 1 hour because of a fault in the concrete pump.

Select one:

- A. Water reducer
- B. Pumping aids
- C. Sugar derivative admixture
- D. CaCl_2

[Clear my choice](#)

Based on the heat evolution curve of cement paste shows below the time when the concrete can be molded or formed.

Select the correct statements from the following:

1. Elongated and flaky particles have high ratio of volume to surface area.
2. Flaky particles enhance the durability and strength of concrete.
3. The higher the angularity number of aggregate the more rounded the aggregate.
4. The angularity of aggregate can be estimated from the proportion of voids among particles compacted in a prescribed manner.

Select one:

- A. # 2 and 3 are correct.
- B. only # 1 is correct.
- C. # 3 and 4 are correct.
- D. Only # 4 is correct.
- E. # 1 and 4 are correct.

[Clear my choice](#)

المسحوق المصنوع من الحجر الجيري
core test حتى تتمكن من تحديد ما يلزم على ضوء نتائج الفحص
الجديد

[Clear my choice](#)

Question 24

Not yet

answered

Marked out of

1.00

Flag

question

When tested, a 15 cm cube concrete specimen showed lower compressive strength compared to a 10 cm cube specimen of the same mix. This can be explained by

Select one:

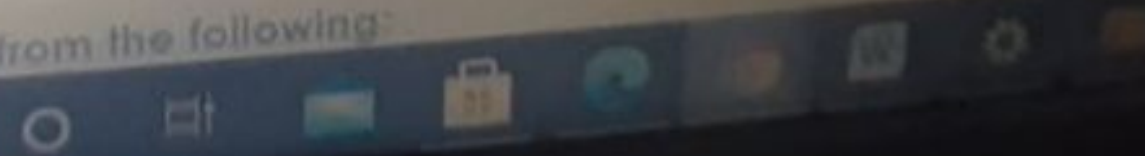
- A. The 15 cm cube specimens has more aggregates.
- B. The 15 cm cube specimen probably can contain a greater number of critical cracks.
- C. Segregation is more probable to occur in the 15 cm cube specimen.
- D. The compaction of the 15 cm cube specimens is usually harder than the compaction of the 10 cm cube specimen.

[Clear my choice](#)

Question 25

Select the correct statements from the following:

Click here to search



Pick up the correct statement from the following:

Select one:

- A. Low abrasion resistance of aggregates in concrete may increase its strength.
- B. Rounded and smooth surface particles can enhance bonding and increase concrete strength favorably.
- C. The abrasion resistance of an aggregate is often used as a general index of strength.
- D. In general, concrete containing granite coarse aggregate performs better than a concrete containing limestone.

Clear my choice

كنت مشرف في مشروع معين، تلقيت بعد 28 يوم من عقدة الطابق الثالث تقريبا عن قوة الباطون المستعمل اذادت بان الخرسانة المستخدمة كانت بقوة 27 Mpa علما بان الخرسانة المطلوبة كانت بقوة 30 Mpa ما تقوم به على الفور

Setting Time Test

- Setting refers to a change from a fluid to a rigid state. Setting is mainly caused by a selective hydration of C_3A and C_3S and is accompanied by temperature rises in the cement paste.
- Initial set which indicates the time at which the paste is beginning to stiffen considerably and can no longer be molded.
- Final set which indicates the time at which the cement has hardened to the point at which it can sustain some load.



For Portland cements, ASTM prescribed:

- a minimum initial setting time of 60 min.
- a maximum final setting time of 10 hours

Generally, initial set occurs in 2 to 4h, and final set in 5 to 8h.



Clear my choice

The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
- B. To detect potential problems with concrete quality.
- C. To determine if concrete formworks can be removed.
- D. To determine if the casted concrete has been compacted properly.

The shorthand formula of $6\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3 \cdot 12\text{H}_2\text{O}$ is

Select one:

- A. $\text{C}_6\text{AFH}_{12}$

Part 3

15 16 17

Part 4

22 23 24

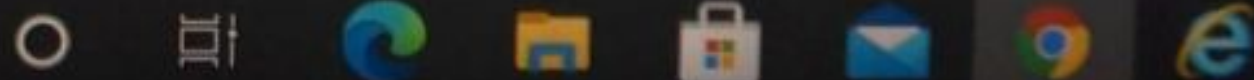
Part 5

29 30 31 32

Finish attempt ...

Time left 0:25:22

Type here to search



[Clear my choice](#)

The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
- B. To detect potential problems with concrete quality.
- C. To determine if concrete formworks can be removed.
- D. To determine if the casted concrete has been compacted properly.

The shorthand formula of $6\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3 \cdot 12\text{H}_2\text{O}$ is

Select one:

- A. $\text{C}_6\text{AFH}_{12}$

Part 3

15 16 17

Part 4

22 23 24

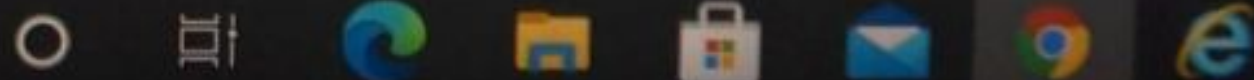
Part 5

29 30 31 32

Finish attempt ...

Time left 0:25:22

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انت مشرف في مشروع معين، تلقيت بعد 28 يوم من عقدة الطابق الثالث تقريراً عن قوة الباطون المستعمل افادت بأن الخرسانة المستعمله كانت بقوة 27 Mpa علما بان الخرسانه المطلوبه كانت بقوة 30 Mpa . ما ستقوم به على ضوء التقرير ان لزم هو:

Select one:

- A. الطلب من المقاول بازالة العقدة
- B. لا لزوم لعمل اي شئ حيث ان النتيجة مقاربه كثيرا للمطلوب
- C. عمل فحوصات في نقاط عديده باستخدام ال Schmidt hammer لتحديد مقاومه الخرسانه المستعمله بدقه من اجل قبولها او رفضها.
- D. اخبار المقاول بعدم موافقة النتيجة للمطلوب والطلب منه عمل core test حتى تتمكن من تحديد ما يلزم على ضوء نتائج الفحص الحديد.

Dear mychoice

The most recent breakthrough in water-reducer technology is the development of high-range water reducers based on

Select one:

- A. Sulfonic acids
- B. Polycarboxylates
- C. Lignosulfonates
- D. CaCl_2

Given that the absorption capacity of a sample of aggregates is 1.2% and the oven-dry mass of the sample is 1000 g. Determine the mass of water that this sample can absorb.

Select one:

- A. 0.12
- B. 1.20
- C. 6.00
- D. 12.00
- E. 120.00

If a concrete sample failed as shown in the photo

E. 59.00

[Clear my choice](#)

Pick out all the correct **statements** from the following

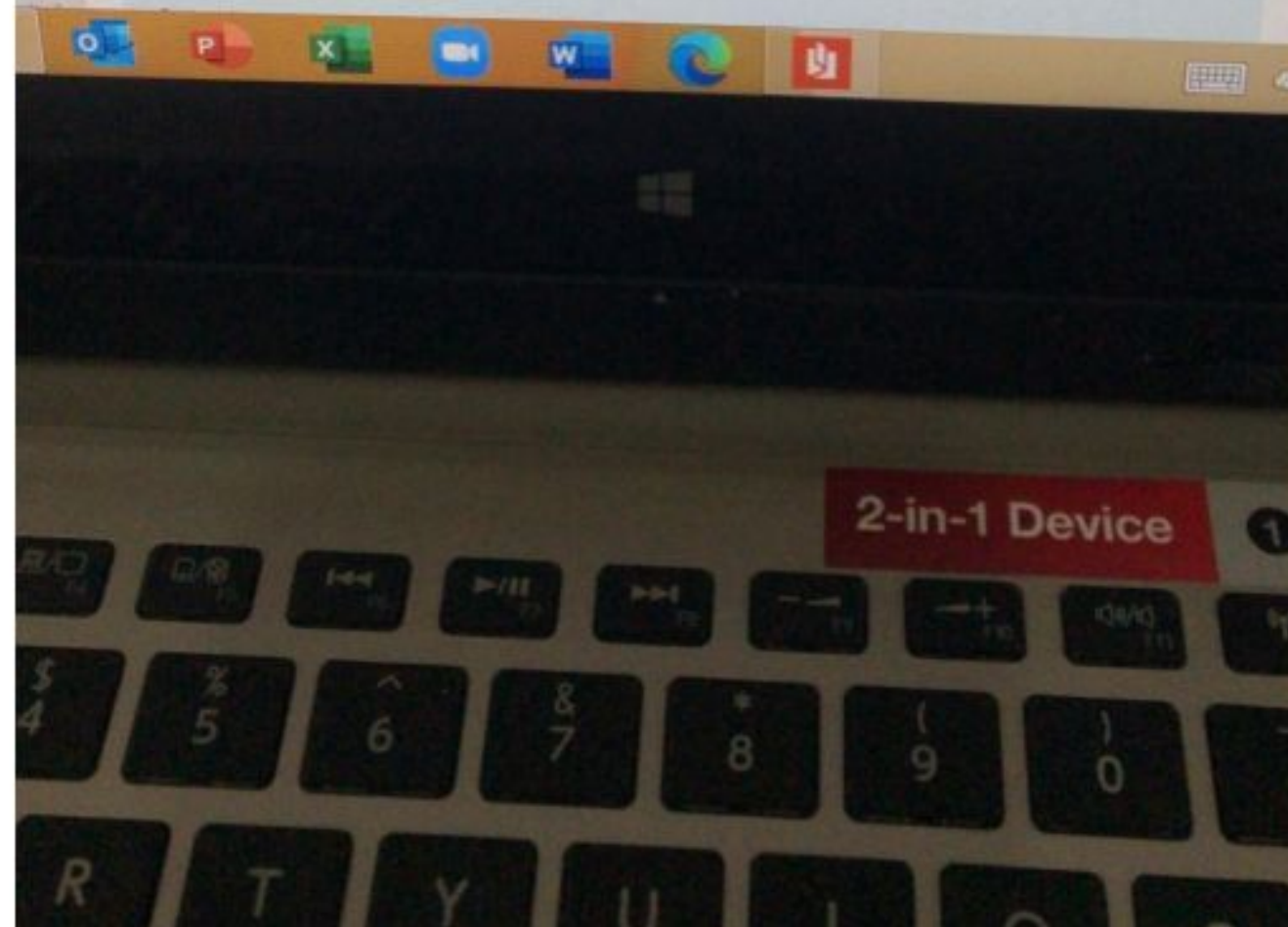
1. Unsoundness of cement can cause cracking and even failure if the cement is restraint.
2. A cement sample that have a specific surface area of $280 \text{ m}^2/\text{Kg}$ is expected to set faster than a sample of the same cement type that have a specific area of $160 \text{ m}^2/\text{Kg}$
3. The final set time of cement indicates the time at which the cement has completely hardened.
4. Initial set of cement is caused by a selective hydration of C_3A and C_2S .

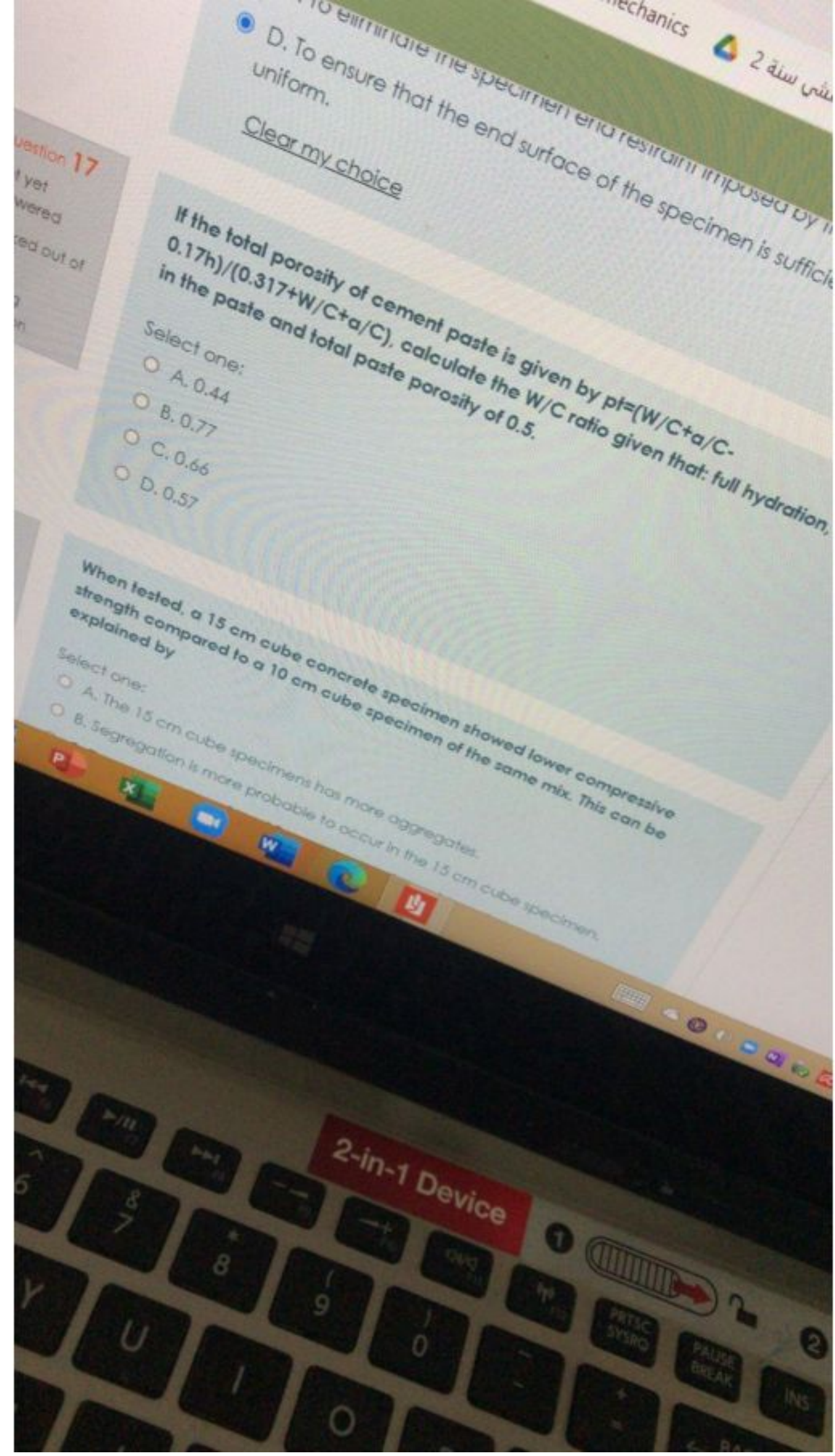
Select one:

- A. # 1 and 2
- B. # 3 and 4
- C. # 2 and 4
- D. # 1, 2 and 3

1

The most recent breakthrough in water-reducer technology is the development of high-range water reducers based on





mechanics 2
to eliminate the specimen end restraint imposed by it
D. To ensure that the end surface of the specimen is sufficient uniform.
Clear my choice

Question 17
If the total porosity of cement paste is given by $p_t = (W/C + a/C - 0.17h) / (0.317 + W/C + a/C)$, calculate the W/C ratio given that: full hydration, in the paste and total paste porosity of 0.5.
Select one:
 A. 0.44
 B. 0.77
 C. 0.66
 D. 0.57

When tested, a 15 cm cube concrete specimen showed lower compressive strength compared to a 10 cm cube specimen of the same mix. This can be explained by
Select one:
 A. The 15 cm cube specimens has more aggregates.
 B. Segregation is more probable to occur in the 15 cm cube specimen.

Question 17

Not yet answered

Marked out of 1.00

Flag question

A concrete mix includes the following ingredients per cubic meter:

Cement = 300 Kg

Water = 150 Kg

No admixture

If a water reducer is added to the mix without changing the quantities of cement and water then:

Select one:

- A. Neither workability nor strength of the mix will increase significantly.
- B. Both mix workability and strength will increase significantly.
- C. Strength of the mix will increase, while workability will remain approximately the same
- D. Workability of the mix will increase, while strength will remain approximately the same.

Question 18

Not yet answered

Marked out of 1.00

The most suitable test to determine the workability of a stiff concrete mix is

Select one:

- A. Slump or Compaction factor test
- B. Slump test

Use of some questionable Waters on concrete mix

Wash Water

Water used to wash out truck mixers is satisfactory as mixing water (because the solids in it are proper concrete ingredients), provided of course that it was satisfactory to begin with. But, obviously, different cements and different admixtures should not be involved.

Acid Waters

- Acid waters may be accepted as mixing water on the basis of their pH values. Use of acid waters with pH values less than 3.0 should be avoided.
Organic acids, such as tannic acid can have significant effect on strength at higher concentrations.

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D. Porosity

[Clear my choice](#)

Select type of water that mainly can have the effects shown on concrete

1. Reduce the strength significantly

2. Dampness and efflorescence on hardened concrete

3. Severely increasing the final setting.

4. Surface erosion

[Next page](#)



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Question 12

Not yet answered

Marked out of 1.00

🚩 Remove flag

Select from the following the type of admixture that you will be using if:
Concrete will be used to cast a heavily reinforced concrete column during summer.

Select one:

- A. Type C admixture
- B. Damp proofing admixture
- C. Type E admixture
- D. Type G admixture

[Clear my choice](#)

Question 13


The 7-days compressive stren ⌵ Highlight All Match Case Match Djacritics Whole Words

10:41 AM 12/3/2020 ENG

Question 8

Not yet answered

Marked out of 1.00

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Select the correct statements from the following:



Select one:

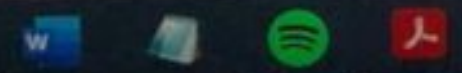
- A. Slump loss is expected to be higher during winter compared to summer.
- B. Slump loss is affected only by concrete temperature.
- C. The concrete aggregates of high absorption capacity can reduce slump loss.
- D. Slump loss in concrete made from type I cement is expected to be less than that of similar concrete made from type III cement.


[Clear my choice](#)

Question 9

Not yet answered

The 7-days compressive strength   Highlight All Match Case Match Diacritics Whole Words



 10:41 AM
12/3/2020

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[Clear my choice](#)

Question 10

Not yet answered

Marked out of 1.00

🚩 Flag question

A concrete cylinder of size 15 mm diameter and 300 mm long is tested for split tensile strength of concrete. If the cylinder failed at a load of 100 kN. The split tensile strength in Mpa is

Select one:

- A. 2.83
- B. 0.35
- C. 0.71
- D. 1.42

[Clear my choice](#)

Question 11

The 7-days compressive stren ^ v Highlight All Match Case Match Djacritics Whole Words

10:41 AM 12/3/2020

Assume that the types of cement that are available in the local market have the following main compound composition.

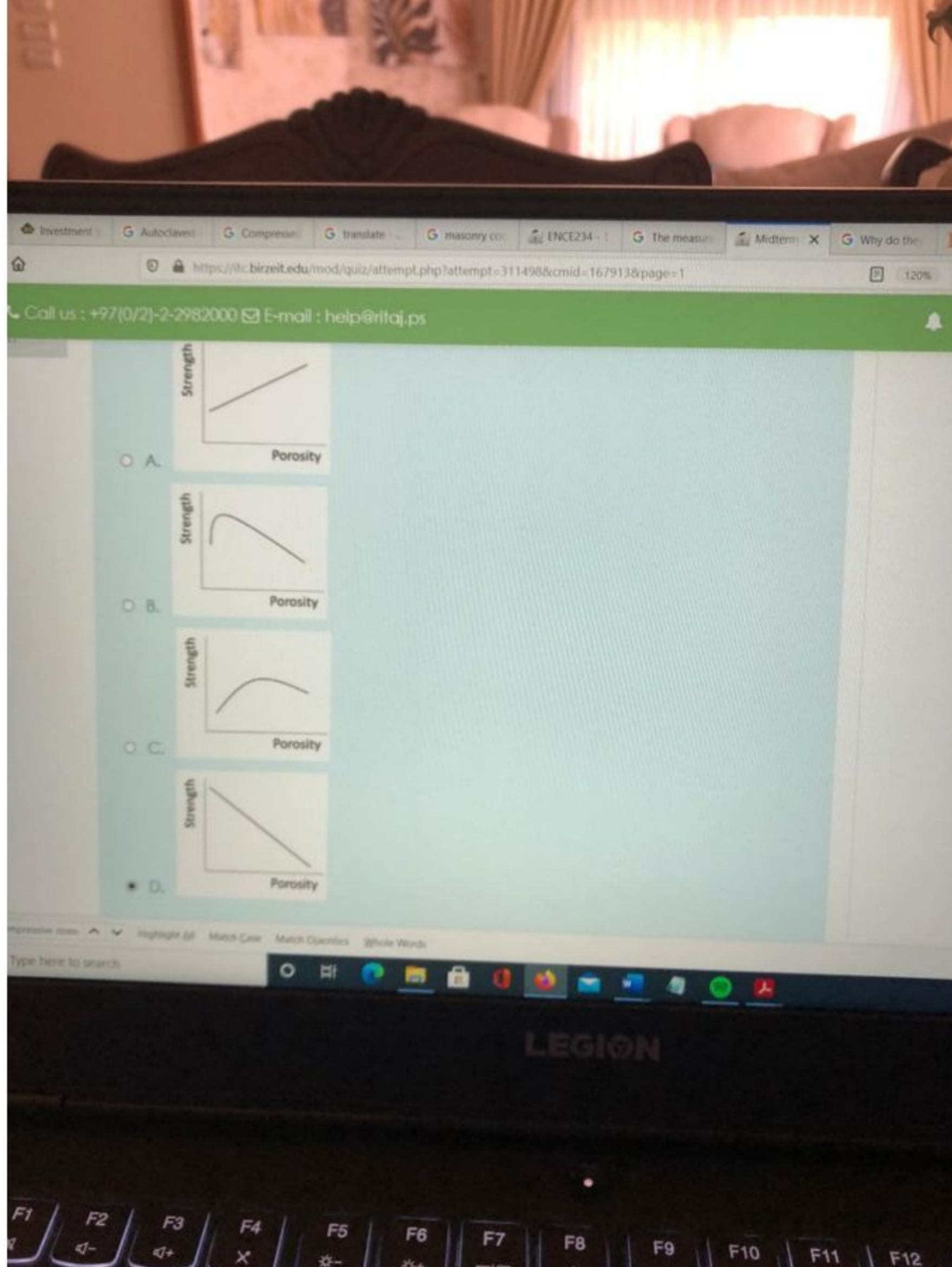
Cement Type	Main Compounds Composition %			
	C ₃ S	C ₂ S	C ₃ A	C ₄ AF
A	40	40	3	9
B	42	33	5	13
C	61	12	10	8
D	31	45	5	12

Select the best cement type for the construction of large foundation
(قاعدة ضخمة)

Select one:

- A. Type B
- B. Type D
- C. Type A
- D. Type C

[Clear my choice](#)



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Question 9
Not yet answered
Marked out of 1.00
🚩 Flag question

Aggregates resistance to wear can be determined through _____

Select one:

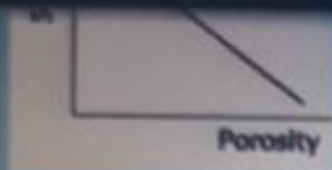
- A. Aggregates crushing strength test.
- B. Aggregates Impact value test.
- C. Los Angeles abrasion test
- D. Aggregates soundness test.

[Clear my choice](#)

Question 10
Not yet answered
Marked out of 1.00
🚩 Flag question

The 7-days compressive stren ^ v Highlight All Match Case Match Diacritics Whole Words

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D.

[Clear my choice](#)

Select the correct statements from the following:

Select one:

- A. Slump test is the ideal and most accurate test of concrete workability.
- B. Among the workability tests, slump, compaction factor, and Vebe, the last is more subjected to human errors.
- C. Slump, Vebe, and Compaction factor tests are directly related to each other.
- D. The treatment of concrete during the Compacting Factor Test is closely related to the method of placing in practice.

[Clear my choice](#)

Reasons for using chemical admixtures includes:

- 1. To improve workability.
- 2. To improve strength.

Reasons for using chemical admixtures includes:

Select one:

- A. To overcome certain emergencies during concreting operations
- B. To achieve a higher concrete strength by decreasing the water content
- C. To increase the mix workability
- D. All of the above

[Clear my choice](#)

Consider the following statements: Higher water content results in

a stronger mix.

better workable mix.

[Clear my choice](#)

Tensile strength of concrete in the laboratory is measured by

Select one:

- A. Applying a tensile load along the diameter of a cylinder
- B. Applying a compressive load at the ends of a cylinder
- C. Applying third point loading on a prism
- D. Applying a tension force at the ends of a cylinder

[Clear my choice](#)

Consider the following statements: Higher water-cement ratio in concrete

1. *a stronger mix.*
2. *better workable mix.*
3. *a weak mix.*
4. *less bleeding.*

Of these statements

Select one:

- A. 2 and 3 are correct
- B. 1 and 4 are correct
- C. 1 and 2 are correct
- D. 3 and 4 are correct

[Clear my choice](#)

Question 18

Not yet answered

Marked out of 1.00

Flag question

Consider the following statements: Higher water-cement ratio in concrete results in

- 1. **a stronger mix.**
- 2. **better workable mix.**
- 3. **a weak mix.**
- 4. **less bleeding.**

Of these statements

Select one:

- A. 2 and 3 are correct
- B. 1 and 2 are correct
- C. 3 and 4 are correct
- D. 1 and 4 are correct

[Clear my choice](#)

Question 19

The most recent breakthrough in water-reducer technology is the development of high-range water reducers based on

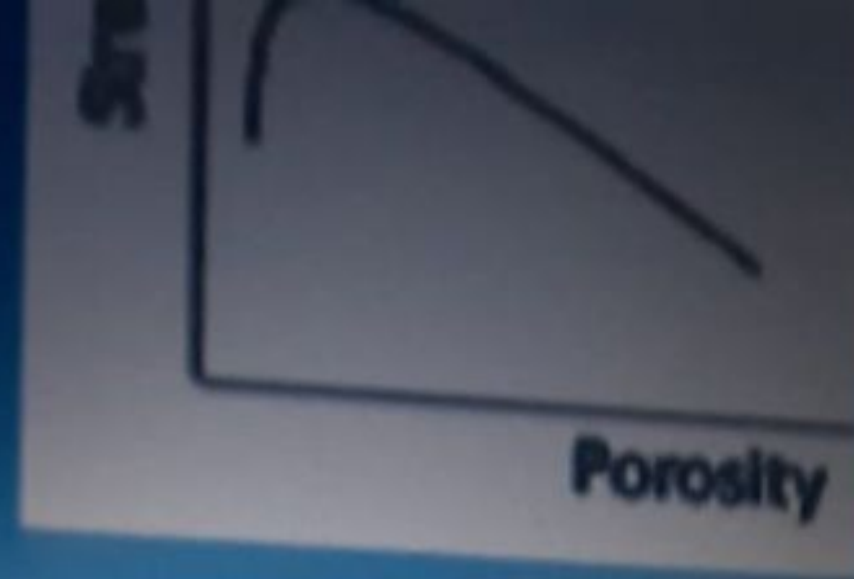
The Blaine Air-Permeability Method is the base for a test used to determine

Select one:

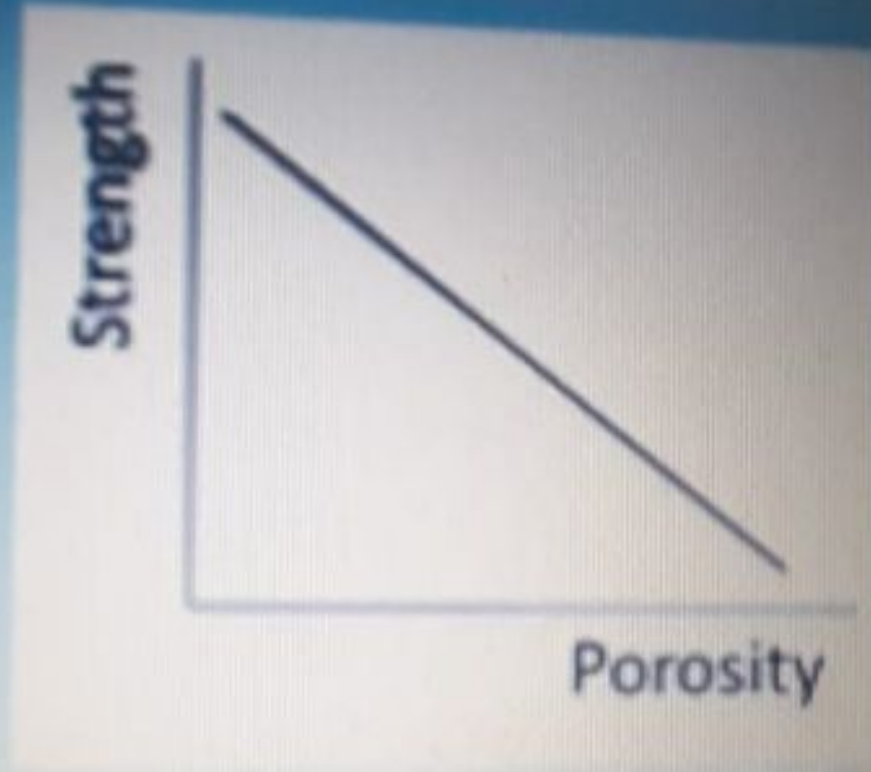
- A. Cement strength.
- B. Cement consistency
- C. Cement specific surface area.
- D. Cement soundness.

[Clear my choice](#)

C.



D.



[Clear my choice](#)

Select the correct statements from the following

Seawater

3. Severely increasing the final setting.

Wastewater from sweet Factory

4. Surface erosion

Industrial wastewaters

Question 12

Not yet answered

Marked out of 1.00

Flag question

When tested, a 15 cm cube concrete specimen showed lower compressive strength compared to a 10 cm cube specimen of the same mix. This can be explained by

Select one:

- A. The 15 cm cube specimen probably can contain a greater number of critical cracks.
- B. The 15 cm cube specimens has more aggregates.
- C. The compaction of the 15 cm cube specimens is usually harder than the compaction of the 10 cm cube specimen.
- D. Segregation is more probable to occur in the 15 cm cube specimen.

[Clear my choice](#)

Question 13

Not yet answered

Marked out of 1.00

Flag question

Can the hydration reaction of cement proceed to 100% completion?

Select one:

- A. It depends on W/C ratio, the reaction may not proceed to 100% completion.
- B. No, the reaction will never proceeds to 100% completion
- C. It depends on the ambient temperature, but usually, the reaction proceed to 100% completion.

Flag question

- A. 30 MPa
- B. 11.8 MPa
- C. 23.5 MPa
- D. 35.3 MPa

[Clear my choice](#)

Question 11

Not yet answered

Marked out of 2.00

Flag question

Select type of water that mainly can have the effects shown on concrete

1. Reduce the strength significantly
2. Dampness and efflorescence on hardened concrete
3. Severely increasing the final setting.
4. Surface erosion

Question 12

Not yet answered

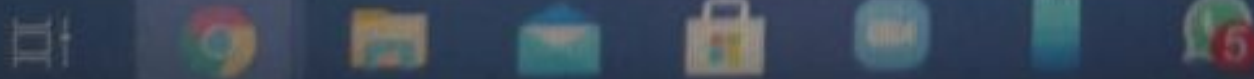
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Flag question

When tested, a 15 cm cube concrete specimen showed lower compressive strength compared to a 10 cm cube specimen of the same mix. This can be explained by

Select one:

- A. The 15 cm cube specimen probably can contain a greater number of critical cracks.



CONSTRUCTION MATERIALS-Lecture-1201 - 1

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Question 8

Not yet answered

Marked out of 1.00

Flag question

Select from the following, the type of admixture that you will use if:

The work will be carried out in a very cold area where the temperature can be below zero for several months during the year.

Select one:

- A. Sugar derivative admixture
- B. Air Entrainer
- C. Retarder
- D. Reaction control admixture

[Clear my choice](#)

Question 9

Not yet answered

Marked out of 1.00

Flag

With increasing moisture content, the Bulking of fine aggregates -----

Select one:

- A. First, increase then decrease
- B. Increase

Clear my choice

Question 17

Not yet answered

Marked out of 1.00

Flag question

A concrete mix includes the following ingredients per cubic meter:

Cement = 300 Kg

Water = 150 Kg

No admixture

If a water reducer is added to the mix without changing the quantities of cement and water then:

Select one:

- A. Neither workability nor strength of the mix will increase significantly.
- B. Both mix workability and strength will increase significantly.
- C. Strength of the mix will increase, while workability will remain approximately the same
- D. Workability of the mix will increase, while strength will remain approximately the same.

Question 18

The most suitable test to determine the workability of a stiff concrete mix is

- A. Sugar derivative admixture
- B. Air Entrainer
- C. Retarder
- D. Reaction control admixture

[Clear my choice](#)

Question 9

Not yet answered

Marked out of 1.00

[Flag question](#)

With increasing moisture content, the Bulking of fine aggregates -----

Select one:

- A. First, increase then decrease
- B. Increase
- C. First, decrease then increase
- D. Decrease

[Clear my choice](#)

Question 10

Not yet answered

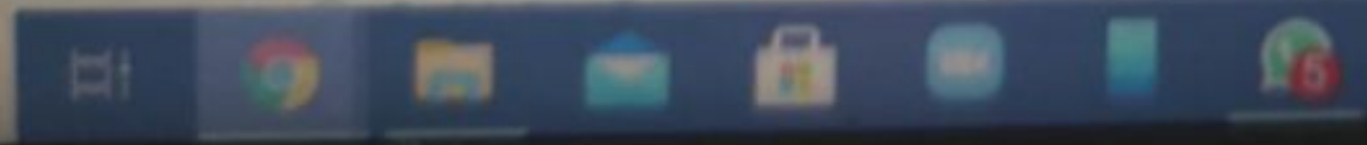
Marked out of 1.00

[Flag](#)

A concrete cylinder of size 15 mm diameter and 300 mm long is tested for compressive strength and failed at 530 KN. The specimen compressive strength is

Select one:

- A. 30 MPa



Marked out of 1.00

Flag question

- Select one:
- A. First, increase then decrease
 - B. Increase
 - C. First, decrease then increase
 - D. Decrease

[Clear my choice](#)

Question 10

Not yet answered

Marked out of 1.00

Flag question

A concrete cylinder of size 15 mm diameter and 300 mm long is tested for compressive strength and failed at 530 KN. The specimen compressive strength is

Select one:

- A. 30 MPa
- B. 11.8 MPa
- C. 23.5 MPa
- D. 35.3 MPa

[Clear my choice](#)

Question 11

Not yet answered

Marked out of 2.00

Select type of water that mainly can have the effects shown on concrete

1. Reduce the strength significantly Acid waters PH
2. Dampness and efflorescence on hardened concrete

- C. The compaction of the 15 cm cube specimens is usually harder than the compaction of the 10 cm cube specimen.
- D. Segregation is more probable to occur in the 15 cm cube specimen.

[Clear my choice](#)

Question 13

Not yet answered

Marked out of 1.00

Flag question

Can the hydration reaction of cement proceed to 100% completion?

Select one:

- A. It depends on W/C ratio, the reaction may not proceed to 100% completion.
- B. No, the reaction will never proceeds to 100% completion
- C. It depends on the ambient temperature, but usually, the reaction proceed to 100% completion after 90 days.
- D. Yes, the reaction proceed to 100% completion after 28 days

[Clear my choice](#)

Question 14

Not yet answered

Marked out of 1.00

Flag question

Pick up the correct statement from the following:

Select one:

- A. Shear slump often indicates a lack of cohesion in the mix; it tends to occur in very wet mixes
- B. Collapse slump may occur when measuring the slump of a very wet mix or for mixes where a highly effective water reducer was added
- C. A concrete mix with a slump of 25-30 mm is suitable for use in heavily

1.00
Flag question

- A. It depends on W/C ratio, the reaction may not proceed to 100% completion.
- B. No, the reaction will never proceeds to 100% completion
- C. It depends on the ambient temperature, but usually, the reaction proceed to 100% completion after 90 days.
- D. Yes, the reaction proceed to 100% completion after 28 days

[Clear my choice](#)

Question 14
Not yet answered
Marked out of 1.00
Flag question

Pick up the correct statement from the following:

Select one:

- A. Shear slump often indicates a lack of cohesion in the mix; it tends to occur in very wet mixes
- B. Collapse slump may occur when measuring the slump of a very wet mix or for mixes where a highly effective water reducer was added
- C. A concrete mix with a slump of 25-30 mm is suitable for use in heavily reinforced columns.
- D. The slump test is used to measure the workability of concrete mixes as it has been defined.

[Clear my choice](#)

Next page

4. Surface erosion

Consider the following strengths of concrete:

1. **Cube strength.**
2. **Cylinder strength.**
3. **Split-tensile strength.**
4. **Modulus of rupture.**

The correct sequence in increasing order of these strengths is:

Select one:

- A. 3, 4, 1, 2
- B. 3, 4, 2, 1
- C. 4, 3, 2, 1
- D. 4, 3, 1, 2

[Clear my choice](#)

When tested, a 15 cm cube concrete specimen showed lower compressive strength

Part 3

15 16 17 18 19

Part 4

22 23 24 25 26

Part 5

29 30 31 32 33

Finish attempt ...

Time left 0:52:44

Select type of water that mainly can have the effects shown on concrete

1. Reduce the strength significantly

2. Dampness and efflorescence on hardened concrete

3. Severely increasing the final setting.

4. Surface erosion

Consider the following strengths of concrete:

- 1. **Cube strength.**
- 2. **Cylinder strength.**
- 3. **Split-tensile strength.**
- 4. **Modulus of rupture.**

Quiz navigation

part 1

- 1
- 2
- 3
- 4

part 2

- 8
- 9
- 10
- 11

Part 3

- 15
- 16
- 17
- 18

Part 4

- 22
- 23
- 24
- 25

Question 8

Not yet
answered

Marked out of
1.00

Flag
question

Select from the following, the type of admixture that you will use if:

The work will be carried out in a very cold area where the temperature can be below zero for several months during the year.

Select one:

- A. Sugar derivative admixture
- B. Air Entrainer
- C. Retarder
- D. Reaction control admixture

[Clear my choice](#)

D. Stage 5

[Clear my choice](#)

Question 21

Not yet
answered

Marked out of
1.00

Flag
question

A concrete cylinder of size 15 mm diameter and 300 mm long is tested for compressive strength and failed at 530 KN. The specimen compressive strength is

Select one:

- A. 23.5 MPa
- B. 30 MPa
- C. 35.3 MPa
- D. 11.8 MPa

Next page

Jump to...

D. 4, 3, 1, 2

[Clear my choice](#)

When tested, a 15 cm cube concrete specimen showed lower compressive strength compared to a 10 cm cube specimen of the same mix. This can be explained by

Select one:

- A. The compaction of the 15 cm cube specimens is usually harder than the compaction of the 10 cm cube specimen.
- B. The 15 cm cube specimen probably can contain a greater number of critical cracks.
- C. The 15 cm cube specimens has more aggregates.
- D. Segregation is more probable to occur in the 15 cm cube specimen.

[Clear my choice](#)

Pick up the correct statement from the following:

pe here to search



D. Segregation is more probable to occur in the 15 cm cube specimen.

[Clear my choice](#)

Pick up the correct statement from the following:

Select one:

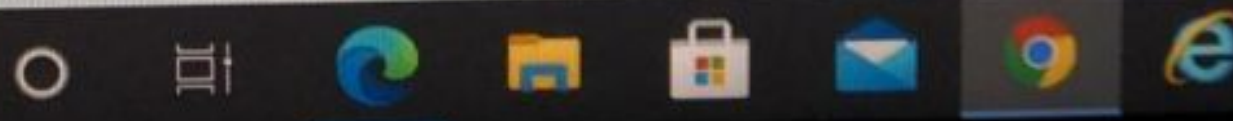
- A. The abrasion resistance of an aggregate is often used as a general index of its quality
- B. Rounded and smooth surface particles can enhance bonding and influence concrete strength favorably.
- C. In general, concrete containing granite coarse aggregate performs better under fire exposure than a concrete containing limestone.
- D. Low abrasion resistance of aggregates in concrete may increase its strength.

[Clear my choice](#)

Select from the following the type of admixture that you will be using if:

Concrete will be used to cast a heavily reinforced concrete column during summer.

here to search



Concrete containing granite coarse aggregate performs better under fire exposure than a concrete containing limestone.

- D. Low abrasion resistance of aggregates in concrete may increase its strength.

[Clear my choice](#)

12
Select from the following the type of admixture that you will be using if:

Concrete will be used to cast a heavily reinforced concrete column during summer.

Select one:

- A. Damp proofing admixture
- B. Type C admixture
- C. Type G admixture
- D. Type E admixture

[Clear my choice](#)

13
For a constant water/cement ratio, the workability increases with

Select one:

D. Type E admixture

[Clear my choice](#)

For a constant water/cement ratio, the workability increases with

Select one:

- A. Temperature increase
- B. Using aggregate of high absorption capacity
- C. Using aggregates with low angularity index.
- D. Using Low ratio of fine aggregate to coarse aggregate

[Clear my choice](#)

In the Clinkering stage of the cement manufacturing process

Select one:

- A. First calcium silicates nucleates to form C_2S .

[Clear my choice](#)

Pick the correct statement from the following

Select one:

- A. Abrams law state that the strength of concrete can be taken to be the water/cement ratio only.
- B. Changes in the structure of the interfacial transition zone can affect the strength of concrete on the order of 30%.
- C. The water-cement ratio is the main influencing factor of the strength of concrete.
- D. Angular and rough aggregates can increase the compressive strength of concrete significantly.

[Clear my choice](#)

- E. Does not have any measurable effect on the workability

[Clear my choice](#)

The most suitable test to determine the workability of a stiff concrete mix is

Select one:

- A. Vebe test
- B. Slump test
- C. Compaction factor test
- D. Slump or Compaction factor test

[Clear my choice](#)

Pick the correct statement from the following

1. A. True

2. B. False

The rough texture aggregates used in a concrete mix

Select one:

- A. Can improve the adherence of aggregate particles with the cement paste.
- B. Can increase the internal friction between particles thus improving the strength of concrete mix.
- C. Can reduce the required cement paste quantity.
- D. Can significantly improve concrete durability.
- E. Does not have any measurable effect on the concrete mix.

[Clear my choice](#)

The most suitable test to determine the workability of a stiff concrete mix is

D. Using Low ratio of fine aggregate to coarse aggregate

[Clear my choice](#)

In the Clinkering stage of the cement manufacturing process

Select one:

- A. First calcium silicates nucleates to form C_2S .
- B. Carbon dioxide in the limestone start to drive off.
- C. The formation of tricalcium aluminate, and tetracalcium aluminoferrite occurs.
- D. Additional C_3S forms as a result of the reaction between C_2S with the free lime.

[Clear my choice](#)

Next page

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A. Surface treatment

Acid waters PH

Select from the following, the type of admixture that you will use it:

Formwork have to be removed as early as possible (So High early strength concrete not necessarily high ultimate strength).

Select one:

- A. Accelerator admixture
- B. hydration-control admixture
- C. Type B admixture
- D. Shrinkage reducers

[Clear my choice](#)

... texture aggregates used in a concrete mix

- A. Change in the structure of the material particles of concrete on the order of 30%.
- C. The water-cement ratio is the main influencing factor on the
- D. Angular and rough aggregates can increase the compressive significantly.

[Clear my choice](#)

14
red
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tion

A concrete cylinder of size 150 mm diameter and 300 mm long is tested for concrete. If the cylinder failed at a load of 100 kN. The split tensile strength

Select one:

- A. 2.83
- B. 0.71
- C. 0.35
- D. 1.42

[Clear my choice](#)

Assume that the types of cement that are available in the local market have the following main compound composition.

Cement Type	Main Compounds Composition %			
	C ₃ S	C ₂ S	C ₃ A	C ₄ AF
A	40	40	3	9
B	42	33	5	13
C	61	12	10	8
D	31	45	5	12

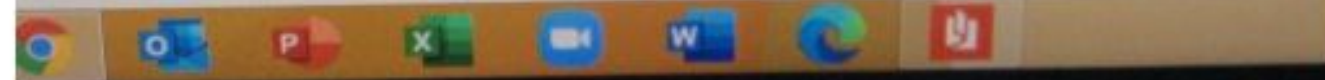
Select the best cement type for the construction of large foundation (محملة)

Select one:

- A. Type B
- B. Type D
- C. Type C
- D. Type A

[Clear my choice](#)

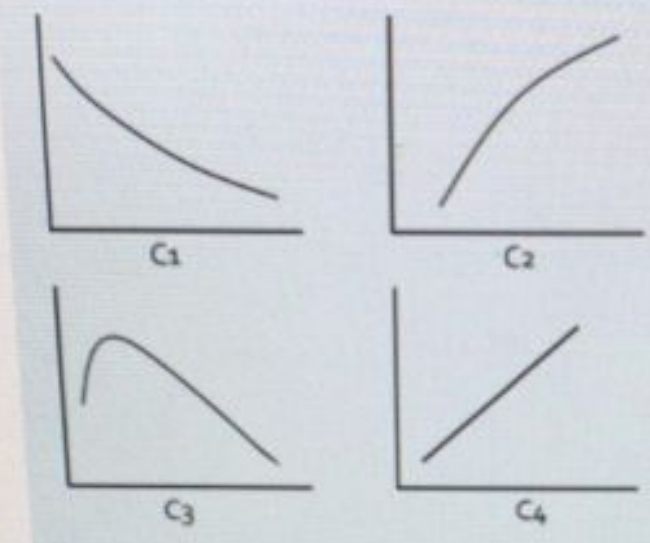
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2-in-1 Device

13

out of

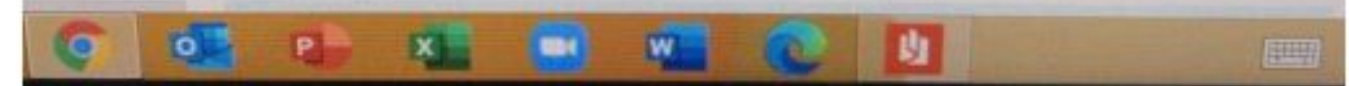


From the figures above, the most accurate curve to represents Abrams law in practice is:

Select one:

- A. C1
- B. C2
- C. C4
- D. C3

[Clear my choice](#)



CONSTRUCTION MATERIALS-Lecture-1201 - 1

/ My courses / CONSTRUCTION MATERIALS-Lecture-1201 - 1 / Exams / Midterm Exam

When a material is subjected to a specific load, the term Stress refers to:

Select one:

- A. The magnitude of the applied load.
- B. The internal resistance of the material.
- C. The axial deformation of the material.
- D. The magnitude of the deformation under load.

[Clear my choice](#)

Pick out all correct statements from the following

1. Interfacial Transition Zone is the interface between the aggregates and the hydrated paste, it's typically 1-2 cm thick.
2. The Interfacial Transition Zone is weaker than the paste due to its high porosity.
3. The Interfacial Transition Zone contains less amount of C-S-H compared to the main body of the paste.

2-in-1 Device

For a constant water/cement ratio, the workability increases with

Select one:

- A. Using aggregates with low angularity index.
- B. Using aggregate of high absorption capacity
- C. Temperature increase
- D. Using Low ratio of fine aggregate to coarse aggregate

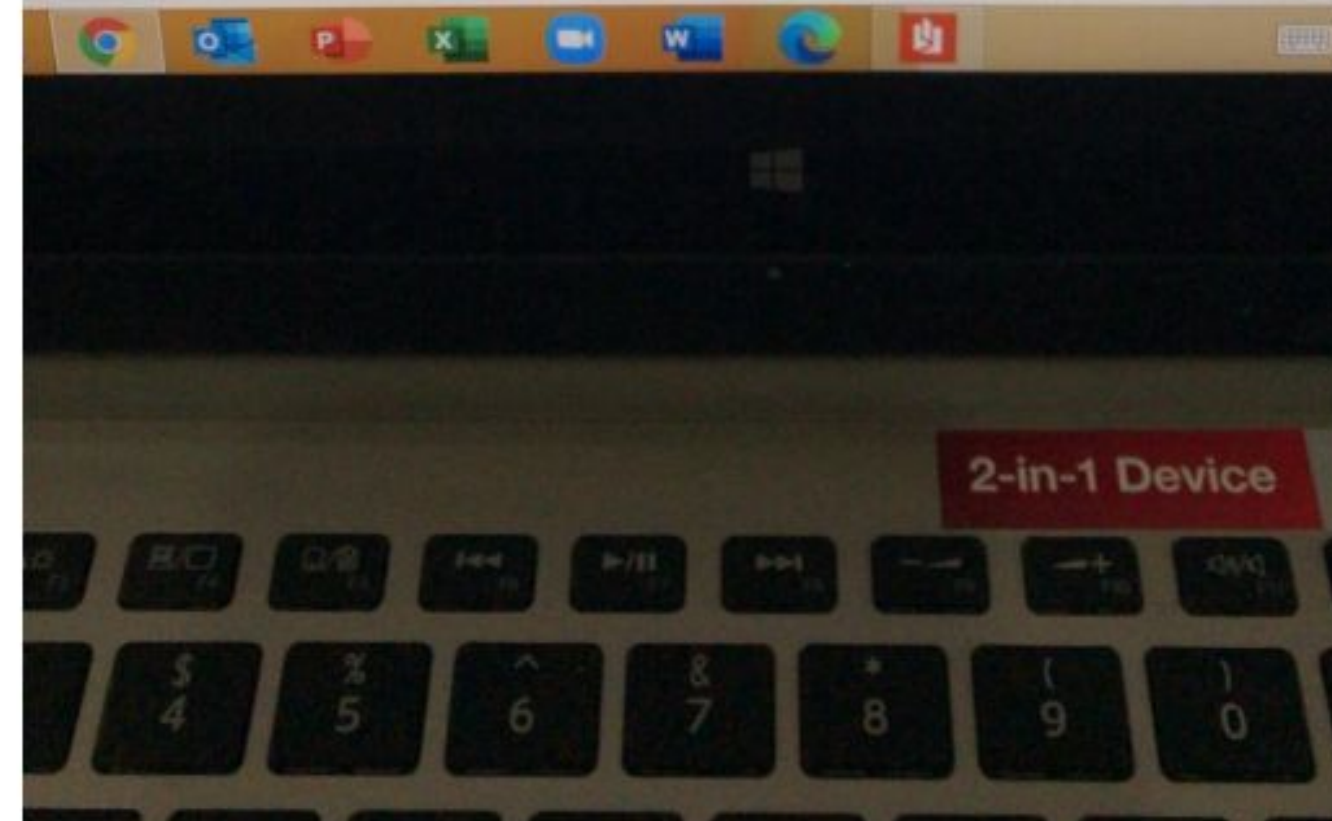
[Clear my choice](#)

The presence of fine materials (passing No. 200 sieve) in aggregate, especially silt and clay is considered harmful to concrete as

Select one:

- A. It may decrease the water requirements of the mix significantly.
- B. It may cause map cracking in the hardened concrete.
- C. It may cause abnormal expansion in the hardened concrete.
- D. It may form a coating on the aggregate particles and consequently weaken the bond between the cement paste and aggregate.

[Clear my choice](#)



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Select type of water that mainly can have the effects shown on concrete

1. Reduce the strength significantly
2. Dampness and efflorescence on hardened concrete
3. Severely increasing the final setting.
4. Surface erosion

Concrete C30 is

Select one:

- A. A concrete category where the concrete compressive strength is 30 MPa.
- B. A concrete category where the concrete slump is 30 mm.
- C. A concrete category indicating that the concrete can be used for non-structural elements.
- D. A concrete category where the concrete compressive strength is 30 kg/cm².

[Clear my choice](#)

2-in-1 Device

2

Select from the following, the type of admixture that you will use if:

Formwork have to be removed as early as possible (So High early strength concrete is required, but not necessarily high ultimate strength).

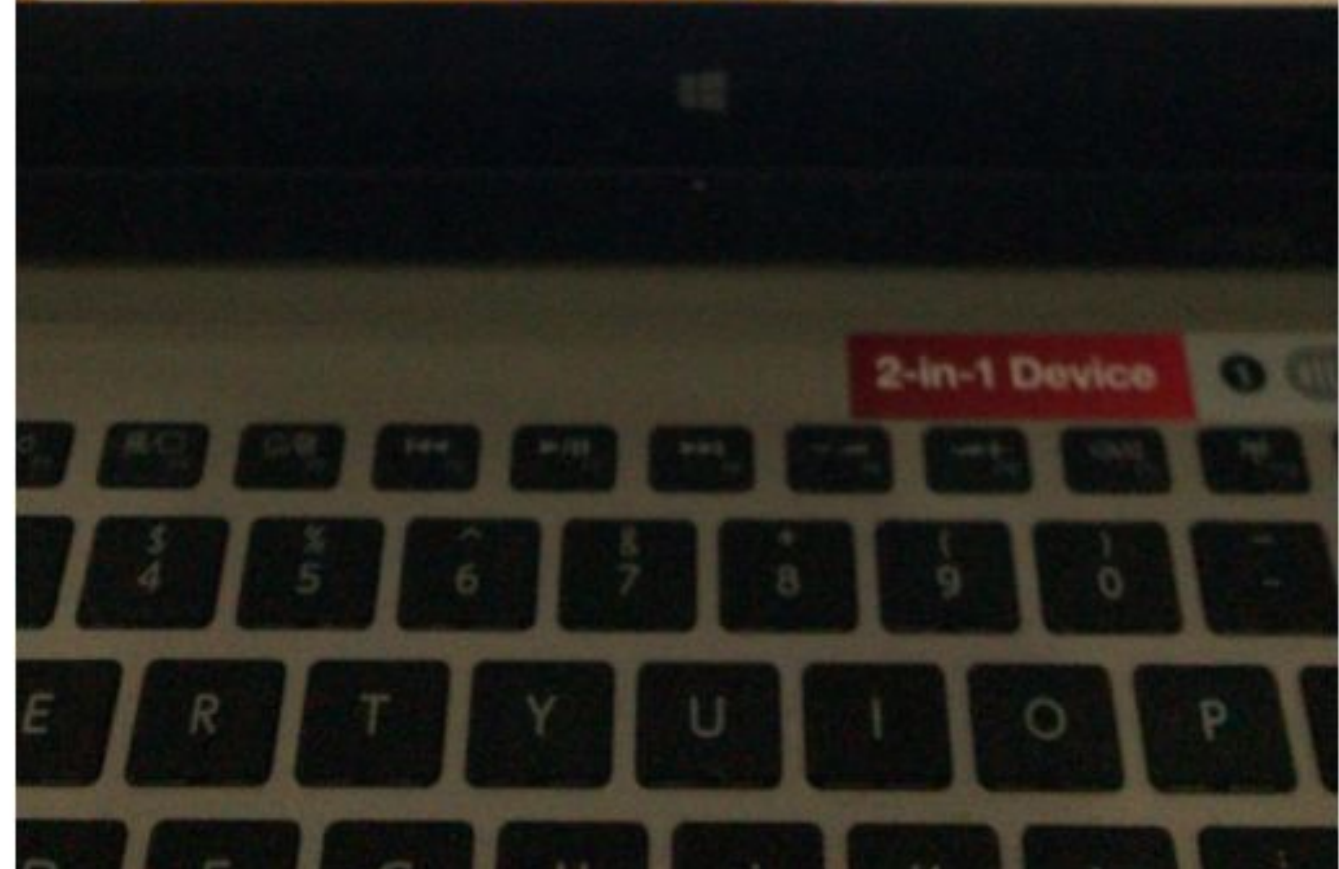
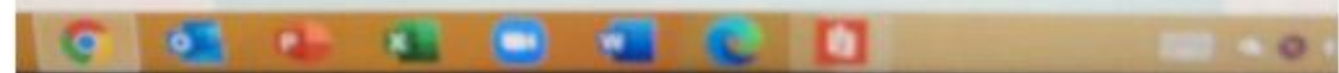
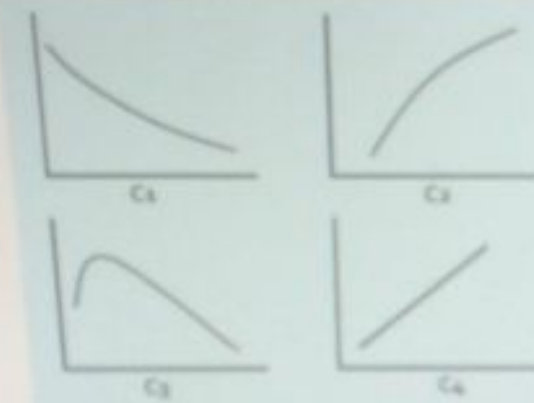
Select one:

- A. Accelerator admixture
- B. Shrinkage reducers
- C. hydration-control admixture
- D. Type B admixture

[Clear my choice](#)

13

yet
need
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padding



- A. The magnitude of the applied load.
- B. The internal resistance of the material.
- C. The axial deformation of the material.
- D. The magnitude of the deformation under load.

[Clear my choice](#)

Question 2

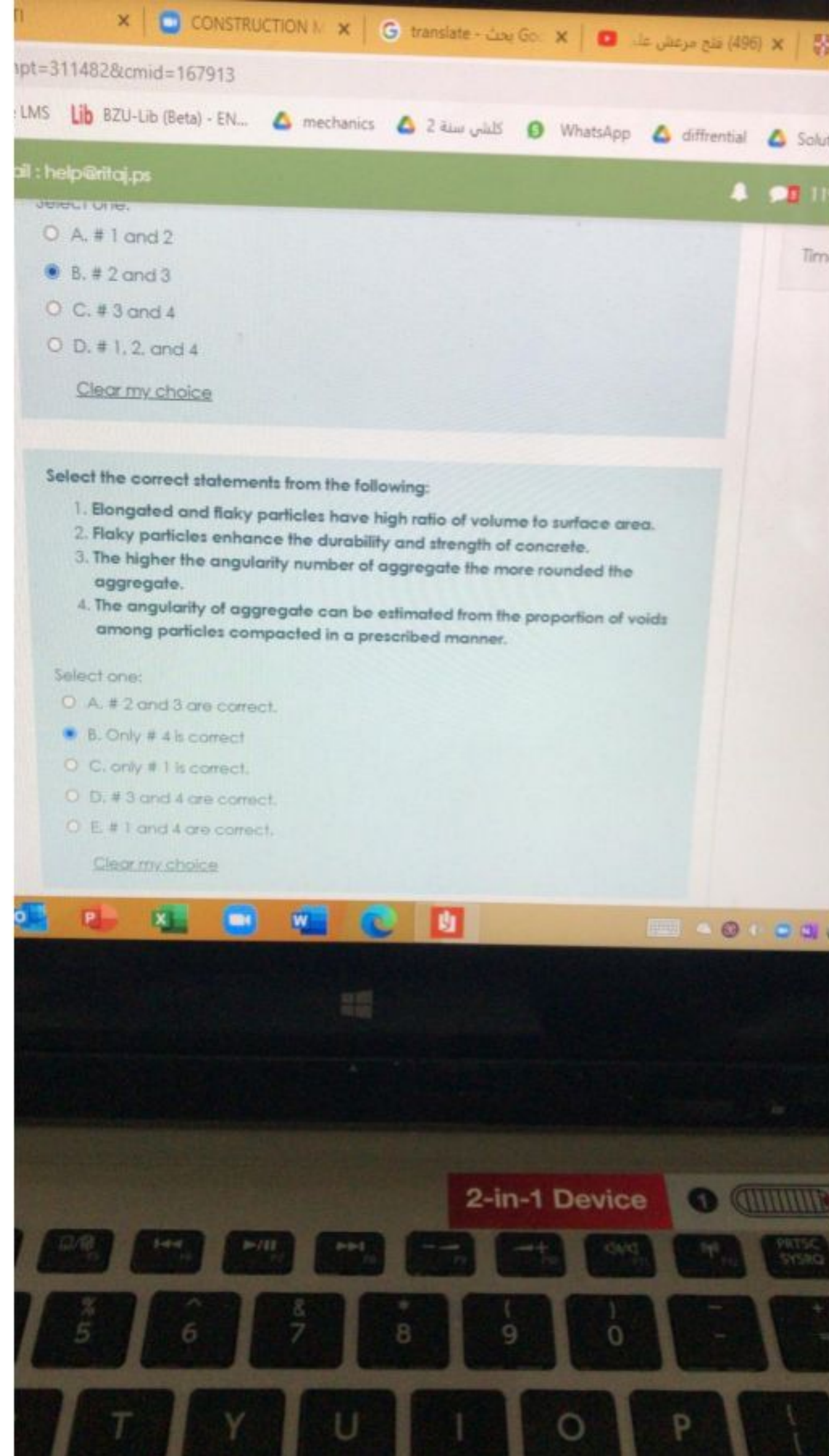
Pick out all correct statements from the following

1. Interfacial Transition Zone is the interface between the aggregates and the hydrated paste, it's typically 1-2 cm thick.
2. The Interfacial Transition Zone is weaker than the paste due to its high porosity.
3. The Interfacial Transition Zone contains less amount of C-S-H compared to the main body of the paste.
4. Improving the Interfacial Transition Zone structure can significantly improve the compressive strength of concrete (about 40% more)

Select one:

- A. # 1 and 2
- B. # 2 and 3
- C. # 3 and 4
- D. # 1, 2, and 4

[Clear my choice](#)

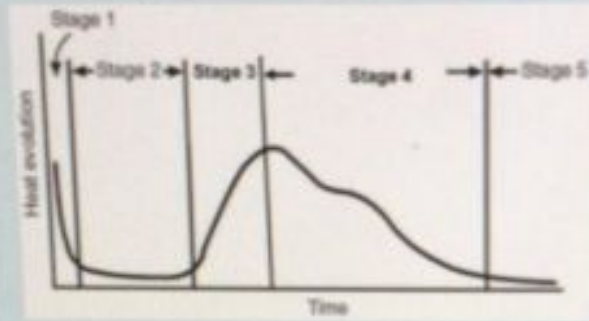


- D. # 3 and 4 are correct.
- E. # 1 and 4 are correct.

[Clear my choice](#)

Question 4

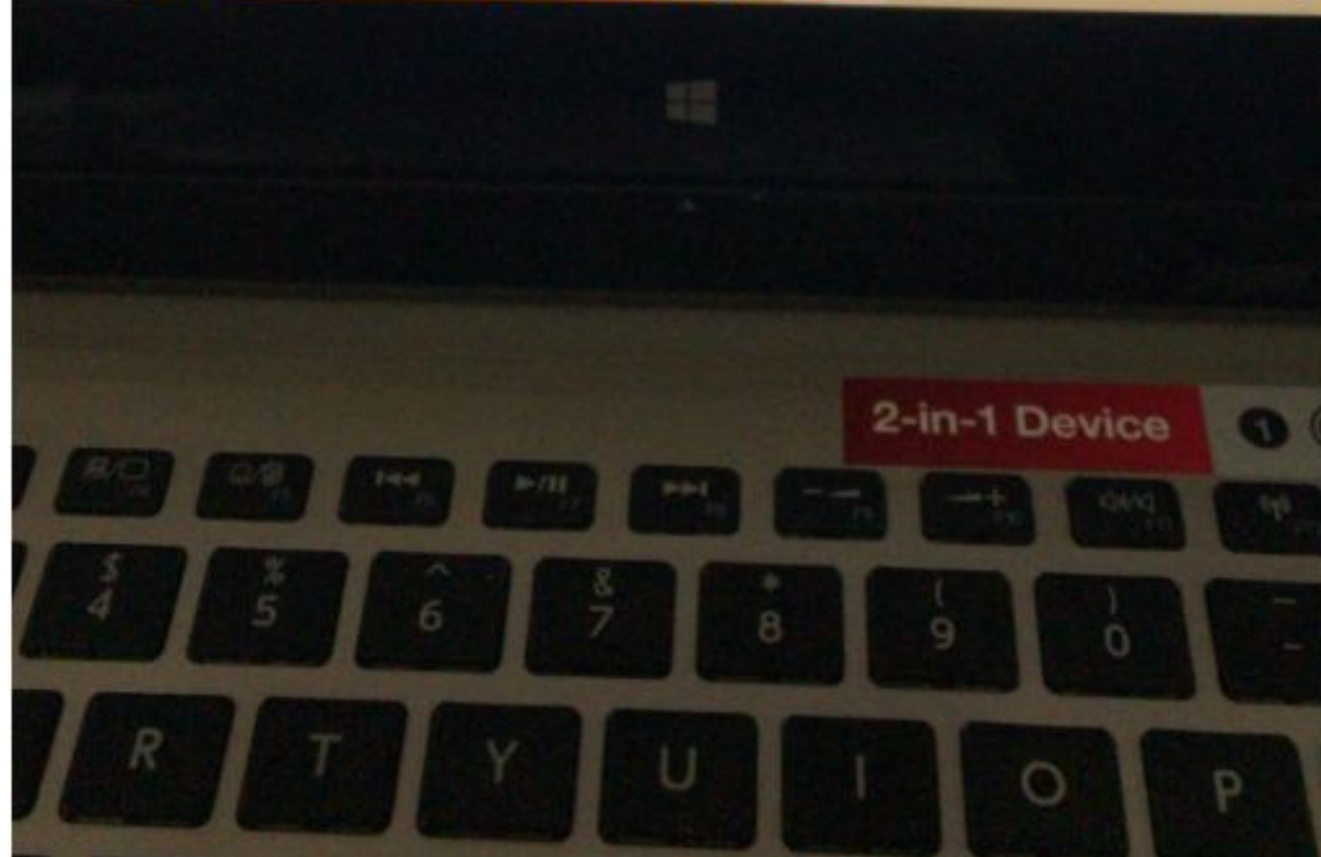
Based on the heat evolution curve of cement paste shown below, the stage during which the paste can be molded or formed.



Select one:

- A. Stage 3
- B. Stage 5
- C. Stage 4
- D. Stage 2

[Clear my choice](#)



In the Clinkering stage of the cement manufacturing process

Select one:

- A. Carbon dioxide in the limestone start to drive off.
- B. Additional C_3S forms as a result of the reaction between C_2S with the free lime.
- C. First calcium silicates nucleates to form C_2S .
- D. The formation of tricalcium aluminate, and tetracalcium aluminoferrite occurs.

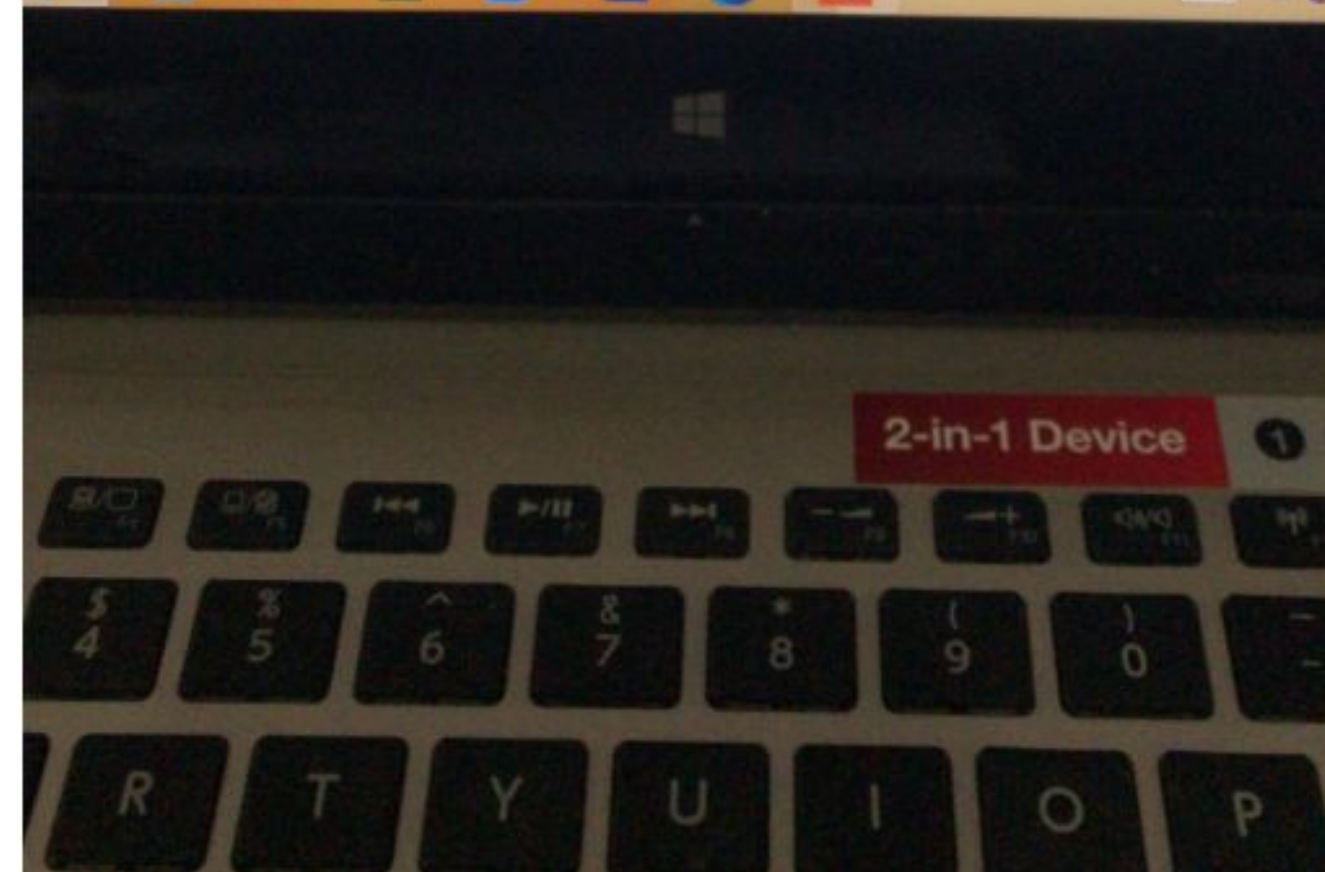
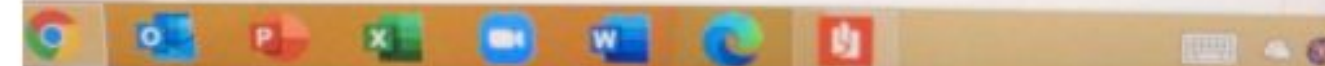
[Clear my choice](#)

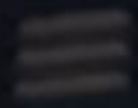
The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if concrete formworks can be removed.
- B. To determine if the casted concrete has been compacted properly.
- C. To determine if the delivered concrete fails to comply with the acceptance criteria in the specifications.
- D. To detect potential problems with concrete quality.

[Clear my choice](#)





[Clear my choice](#)

"The compressive strength of concrete increases as the W/C ratio decreases, this is because a low water-cement ratio reduces the volume percentage of the gel pores in the cement paste"

Select one:

- a. The previous statement is true if the concrete is well compacted
- b. The previous statement is true at a specific age of concrete
- c. The previous statement is always true
- d. The previous statement is False

[Clear my choice](#)

Pick up a correct statement from the following:
The amount added to cement during manufacturing is
The amount added to cement during manufacturing is

- C. Modulus of resilience of the material
- D. Basic modulus of the material

[Clear my choice](#)

Question 3

Not yet

answered

Marked out of

1.00

Flag

question

Pick out all the correct statements from the following

1. Cement can be considered a composite material as it consists of several oxides.
2. From an economic point of view, wood is the most suitable construction material in Palestine.
3. If I am asked to construct a temporary hospital to cure Coronavirus patients in Palestine within a limited time frame, I will select reinforced concrete as the main construction material.
4. It is better to select ductile material for the construction of earthquake-resistant structures.

Select one:

- A. #1 and 3
- B. #2 and 3
- C. #4 only
- D. #3 and 4

[Clear my choice](#)

[Clear my choice](#)

Question 4

Not yet answered

Marked out of 1.00

Flag question

Pick up all correct statement from the followings:

1. The gypsum added to cement during manufacturing aims to decrease the setting time of cement.
2. The first compound of cement which reacts with water during the hydration reaction is the C_2S .
3. The Bulking of sand results in a smaller mass of sand occupying the fixed volume of a measuring box.
4. The first particles of C_2S are formed in the early stage of the calcination reaction.

Select one:

- A. # 3 and 4
- B. # 1 and 4
- C. # 1
- D. # 2 and 3

[Clear my choice](#)

Pick out all false statement from the following:

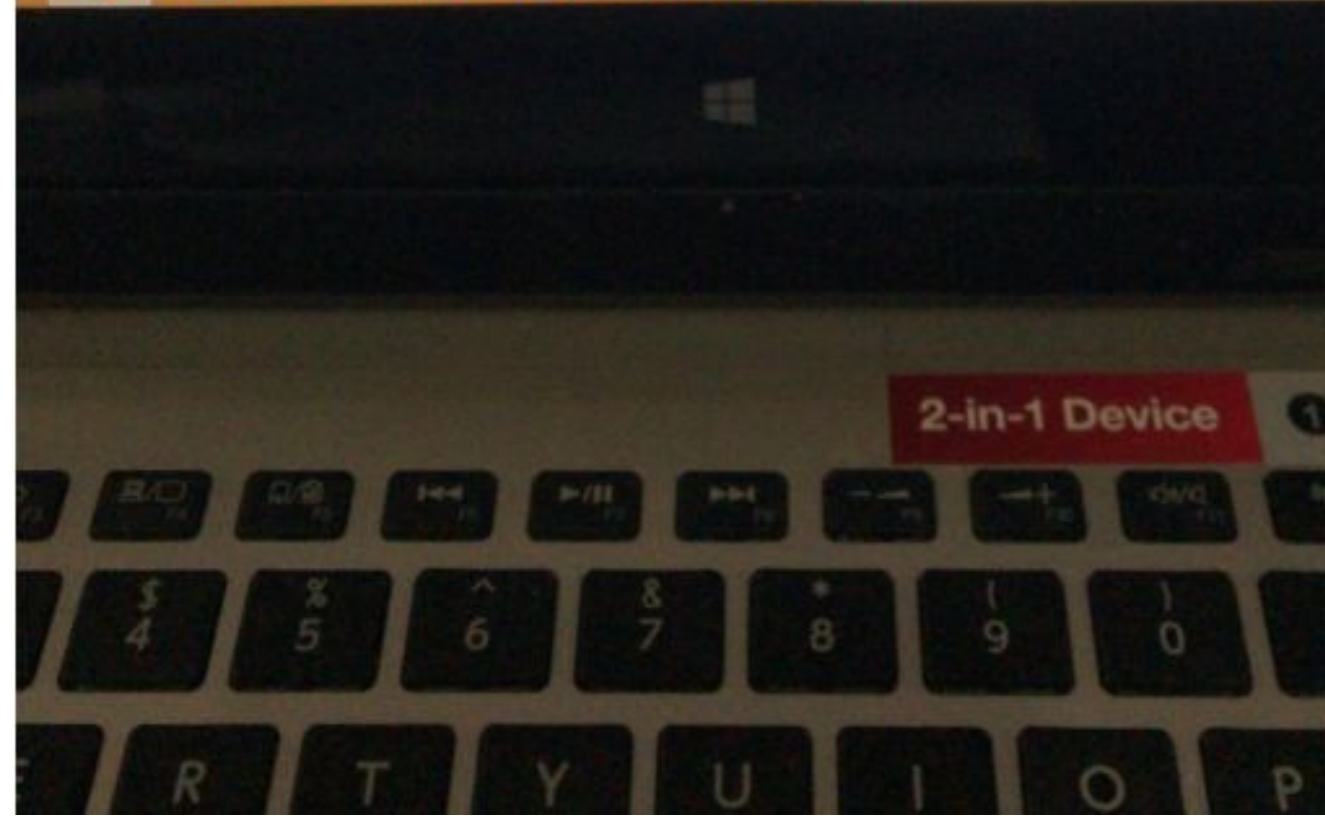
1. The performance of concrete only depends on the characteristics of the components and the quality of the workmanship.
2. Concrete compaction aims to reduce the amount of entrapped air in the mix to reduce the total voids ratio.
3. Concrete can be mixed, transported, handled, and placed by any suitable means such that delay, drying out, stiffening, and segregation are avoided.
4. Curing of concrete aims to control the Concrete mix temperature so it is essential only during hot weather.

Select one:

- A. # 1 and 2
- B. # 4 only
- C. # 1 and 4
- D. # 3 and 4

Clear my choice

Next page



Clear my choice

Question 5

Not yet answered

Marked out of 1.00

Flag question

Pick out all the correct statements from the following

1. Cement can be considered a composite material as it consists of several oxides.
2. From an economic point of view, wood is the most suitable construction material in Palestine.
3. If I am asked to construct a temporary hospital to cure Coronavirus patients in Palestine within a limited time frame, I will select reinforced concrete as the main construction material.
4. It is better to select ductile material for the construction of earthquake-resistant structures

Select one:

- A. # 3 and 4
- B. #1 and 3
- C. # 4 only
- D. # 2 and 3

Clear my choice

Select the correct statements from the following:

1. Elongated and flaky particles have high ratio of volume to surface area.
2. Flaky particles enhance the durability and strength of concrete.
3. The higher the angularity number of aggregate the more rounded the aggregate.
4. The angularity of aggregate can be estimated from the proportion of voids among particles compacted in a prescribed manner.

Select one:

- A. # 1 and 4 are correct.
- B. only # 1 is correct.
- C. # 2 and 3 are correct.
- D. # 3 and 4 are correct.
- E. Only # 4 is correct

[Clear my choice](#)

Quiz navigation

part 1

1	2	3	4	5
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part 2

8	9	10	11	12
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Part 3

15	16	17	18	19
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Part 4

22	23	24	25	26
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Part 5

28	29	30	31	32
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2 The seven days compressive strength of a concrete sample taken from a mix of W/C = 0.5 is found to be 22 MPa. The estimated 28 days compressive strength of this mix is

E. Only # 4 is correct

[Clear my choice](#)

Part 4

22

23

24

Part 5

29

30

31

Finish attempt

Time left 1:15:

Question 2

Not yet answered

Marked out of 1.00

Flag question

The seven days compressive strength of a concrete sample taken from a mix of $W/C = 0.5$ is found to be 22 MPa. The estimated 28 days compressive strength of this mix is

Select one:

A. 44 MPa

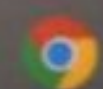
B. 15 MPa

C. 33 MPa

D. 22 MPa

[Clear my choice](#)

Type here to search



Question 3

Not yet answered

Marked out of 1.00

Flag question

Assume that the types of cement that are available in the local market have the following main compound composition.

Cement Type	Main Compounds Composition %			
	C ₃ S	C ₂ S	C ₃ A	C ₄ AF
A	40	40	3	9
B	42	33	5	13
C	61	12	10	8
D	31	45	5	12

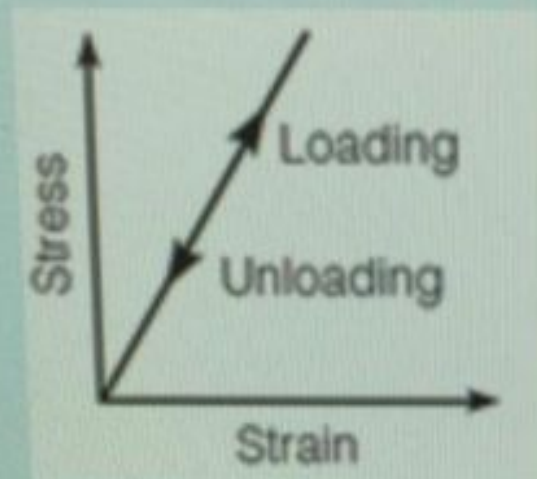
Select the best cement type for a rapid construction.

Select one:

- A. Type D
- B. Type A
- C. Type B
- D. Type C

[Clear my choice](#)

The following diagram illustrate the stress strain relationship for



Select one:

- A. Hard material
- B. Plastic Material
- C. Elastic material
- D. Elastic-plastic material

[Clear my choice](#)

Pick out the false statement from the following:

1. Concrete is basically the crushing and dismantling of spec

[Clear my choice](#)

Question 7

Not yet answered

Marked out of 1.00

Flag question

The photo below is for



Select one:

- A. Ultra-sonic device
- B. Internal vibrator
- C. Schmidt rebound hammer
- D. Coring machine.

[Clear my choice](#)



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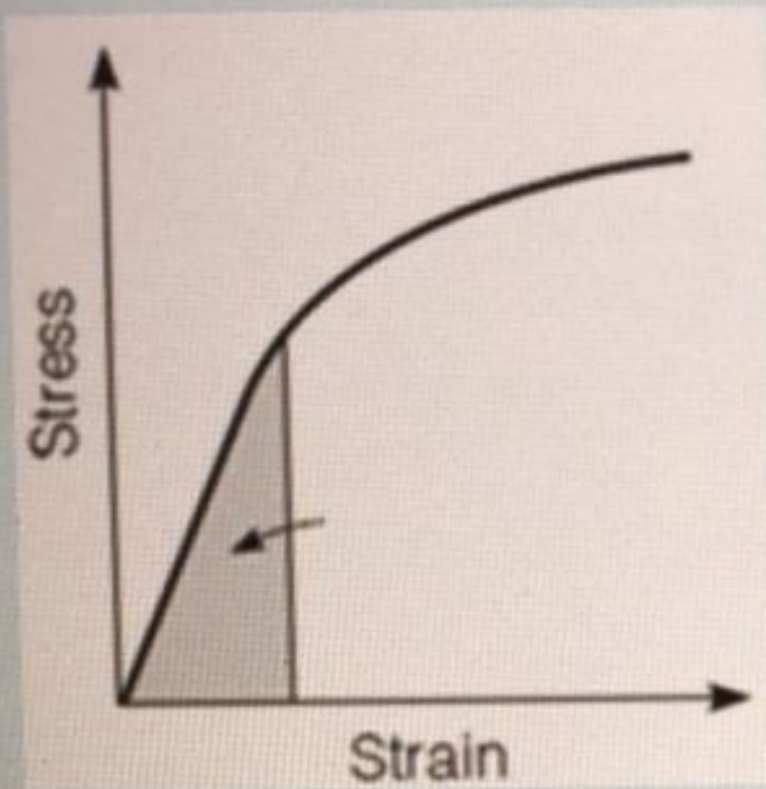
Question 6

Not yet answered

Marked out of 1.00

Flag question

The shaded area in the graph shown below, represents:



Select one:

- A. Ductility of the material
- B. Modulus of resilience of the material
- C. Elastic modulus of the material
- D. Toughness of the material

[Clear my choice](#)

[Clear my choice](#)

Question 4

Not yet answered

Marked out of 1.00

Flag question

Pick out the correct statement from the following

Select one:

- A. Gypsum, additives, and admixtures are added to the cement during the Mill Grinding stage.
- B. The amount of added gypsum to cement depends only on the percentages of the C_3A in the cement being produced
- C. Bogue equations are the formulas that can be used to determine the W/C ratio in the mix.
- D. Early Belite is formed in the cement kiln on during the calcination process when the temperature is about 700 to 900 degrees Celsius.

[Clear my choice](#)

Question 5

Not yet

Pick out all the correct statements from the following

1. Cement can be considered a composite material as it consists of several oxides



Type here to search



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D. # 2 and 3

[Clear my choice](#)

The Blaine Air-Permeability Method is the base for a test used to determine

Select one:

- A. Cement strength.
- B. Cement consistency
- C. Cement soundness.
- D. Cement specific surface area.

[Clear my choice](#)

If the calculated effective absorption of a particular aggregate sample is concluded that the moisture state of the sample is-----

Select one:

- A. Wet or damp
- B. Air dry (AD)

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Pick out all correct statements from the following

1. The early strength gain of the cement paste is largely due to the I
2. The quantity of ettringite in the hydrated paste can be reduced if of C_3S in cement is reduced.
3. All of the crystallized calcium hydroxide (CH) that can be found in baste is a product of the C_2S hydration reaction.
4. Cement characteristic gray color can be attributed to the presence hydrates.

Select one:

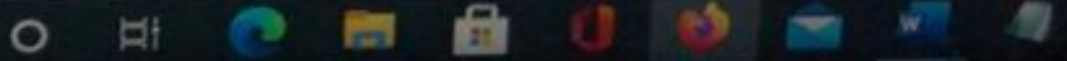
- A. # 4
- B. # 1 and 4
- C. # 1
- D. # 2 and 3

[Clear my choice](#)

The Blaine Air-Permeability Method is the base for a test used to determine

ive stren Highlight All Match Case Match Djacritics Whole Words

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D. Saturated, surface dry (SSD)

[Clear my choice](#)

The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if concrete formworks can be removed.
- B. To detect potential problems with concrete quality.
- C. To determine if the casted concrete has been compacted properly.
- D. To determine if the delivered concrete fails to comply with the acceptance in the specifications.

[Clear my choice](#)

Pick the correct statement from the following

Select one:

- A. Abrams law state that the strength of concrete can be taken to be inversely proportional to the water/cement ratio only.

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- D. To determine if the delivered concrete fails to comply with the acc in the specifications.

[Clear my choice](#)

Pick the correct statement from the following

Select one:

- A. Abrams law state that the strength of concrete can be taken to be proportional to the water/cement ratio only.
- B. Changes in the structure of the interfacial transition zone can affect the compressive strength of concrete on the order of 30%.
- C. The water-cement ratio is the main influencing factor on concrete to
- D. Angular and rough aggregates can increase the compressive strength significantly.

[Clear my choice](#)

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- C. Cement soundness.
- D. Cement specific surface area.

[Clear my choice](#)

If the calculated effective absorption of a particular aggregate sample is concluded that the moisture state of the sample is-----

Select one:

- A. Wet or damp
- B. Air dry (AD)
- C. Oven Dry (OD)
- D. Saturated, surface dry (SSD)

[Clear my choice](#)

The 7-days compressive strength test of concrete is usually carried out:

Select one:

- A. To determine if concrete formworks can be removed.

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Pick out the false statement from the following:

1. Concrete is basically the crushing and dismantling of specific reforming them again during construction.
2. Concrete has several limitations, however, all limitations can be the concrete weakness in tension.
3. One of the major advantages of concrete compared to steel is concrete to effectively resist fire.
4. Concrete has a volume instability problem that shall be considered concrete structures.

Select one:

- A. # 1
- B. # 2
- C. # 4
- D. # 3

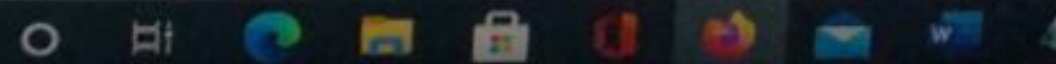
[Clear my choice](#)

Pick out all correct statements from the following

1. The early strength gain of the cement paste is largely due to the hyc

ressive strenv ^ v Highlight All Match Case Match Djacritics Whole Words

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Question 7

Not yet
answered

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1.00

Flag
question

The design engineer specifies a concrete strength of 35 MPa. The required average compressive strength for mix design f'_{cr} shall be

Select one:

- A. 43.5 MPa
- B. 41 MPa
- C. 40 MPa
- D. 40.5 MPa

[Clear my choice](#)

Question 8
With respect to Curing period, consider the following

Question 5

Not yet answered

Marked out of 1.00

Flag question

A concrete mix with

- required slump = 75 mm
- w/c ratio of 0.50,
- coarse aggregate 1100 kg

If the w/c ratio is reduced to 0.45 so as to increase the compressive strength of the mix, the quantity of coarse aggregate then

Select one:

- A. will increase
- B. an increase or decrease
- C. will stay the same
- D. will decrease

[Clear my choice](#)

Finish attempt ...

D. 1, 2 and 3

[Clear my choice](#)

Question 3

Not yet answered

Marked out of 1.00

Flag question

Given that

- Fineness modulus of fine aggregate (FM) is 2.45.
- Nominal maximum size of aggregate is 25 mm.

The dry bulk volume of coarse aggregate per unit volume of concrete is

Select one:

- A. 68.5%
- B. 70%
- C. 69.5%
- D. 70.5%

[Clear my choice](#)

Question 4

Not yet answered

Marked out of

With respect to Curing Methods, consider the following statements:

1. Using impervious papers or plastic sheets represents "maintaining the presence of water in the concrete" curing approach.

With respect to Curing period, consider the following statements:

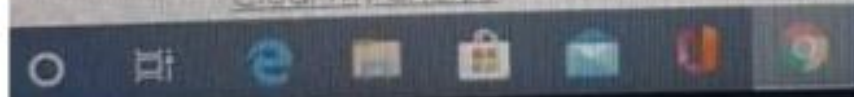
1. Curing shall start immediately after placing when possible and shall remain until concrete attains 70% of its specified compressive strength as a minimum.
2. The minimum curing time depends on several factors, such as required strength where normal concrete require more curing time than high strength concrete.
3. The curing period depends on the curing method used, for example, if ponding is used 3 days is enough.
4. Minimum required curing time in winter is usually more than that required in summer for the same mix

The correct statements from the above are

Select one:

- A. 1, 2, and 4
- B. 2, 3, and 4
- C. 2, and 3
- D. 1, 3 and 4
- E. 1, and 4

[Clear my choice](#)



[Clear my choice](#)

Question 5

Not yet answered

Marked out of 1.00

[Flag question](#)

A concrete mix is required for a structure that is severely exposed to sulfate. Given:

- Required strength 35 Mpa;
- slump 80 mm;
- Coarse aggregate: 19 mm nominal maximum size.

The amount of water required for this mix and the corresponding air content respectively are

Select one:

- A. 190 Kg and 2%
- B. 205 Kg and 2%
- C. 184 Kg and 3.5%
- D. 184 Kg and 6%

[Clear my choice](#)

Question 6

The design engineer specifies a concrete strength of 35 MPa. The required average compressive

Flag question

- A. 40 MPa
- B. 43.5 MPa
- C. 40.5 MPa
- D. 41 MPa

[Clear my choice](#)

Question 7

Not yet answered

Marked out of 1.00

Flag question

A reinforced concrete slab

- Slab thickness = 20 cm.
- Reinforcement: a layer of 16 mm diameter reinforcing bars at 15 cm center to center.
- reinforcement cover = 3 cm from bottom of slab

The recommended nominal maximum aggregate size for the concrete mix of such a slab is

Select one:

- A. 19 mm
- B. 25 mm
- C. 37.5 mm
- D. 50 mm

[Clear my choice](#)



in concrete mix design

- cement = 378 kg/m³.
- water content = 170 kg.
- entrapped air is 1%
- the volume of fine aggregates is 30% of the total aggregate volume. ,
- specific gravity of cement, coarse aggregate and fine aggregate are respectively 3.15, 2.70 and 2.60.

The mass of fine aggregate using the volume method will be approximately

Select one:

- A. 550 Kg
- B. 510 Kg
- C. 600 Kg
- D. 450 Kg

[Clear my choice](#)

1	2	3	4
9			

Finish attempt ...

Time left 0:14:41

The following data is available in a mix design

- The Coarse aggregate weight (SSD) is 1350 kg/m³ and the effective absorption is 2%
- The Fine aggregate weight (SSD) is 500 kg/m³ and the effective absorption is 0.5%.

... from the above data is/are:

Question 2

Not yet answered

Marked out of 1.00

🚩 Flag question

The following data is available in a mix design

- The Coarse aggregate weight (SSD) is 1350 kg/m^3 and the effective absorption is 2%
- The Fine aggregate weight (SSD) is 500 kg/m^3 and the effective absorption is 0.5%

The required adjustments for aggregate moisture from the above data is/are:

1. The quantity of coarse aggregate should be decreased by 27 kg.
2. The quantity of fine aggregate should be increased by 2.5 kg.
3. The quantity of mixing water per m^3 should be increased by 29.5 kg.

Of the above, the correct answer is

Select one:

- A. 1 and 3
- B. 1 and 2
- C. 2 and 3
- D. 1, 2 and 3

[Clear my choice](#)

Question 3

Not yet

Given that

- Fineness modulus of fine aggregate (FM) is 2.45

[Clear my choice](#)

Question 4

Not yet
answered

Marked out of
1.00

Flag
question

With respect to Curing Methods, consider the following statements:

1. Using impervious papers or plastic sheets represents "maintaining the presence of water in the concrete" curing approach.
2. The moisture-retaining fabric covering method is considered to be a satisfactory curing method especially for vertical concrete elements which are kept continuously wet.
3. Fogging can be considered as the best curing approach in high temperature and low humidity environments.
4. Steam curing is the most suitable method in the precast concrete industry as it can shorten the manufacturing time significantly and increase the late strength of concrete.

The correct statements from the above are

Select one:

- A. 2, and 3
- B. 2 and 4
- C. All statements are correct
- D. 2, 3 and 4
- E. 1, 2 and 3

[Clear my choice](#)

Clear my choice

Question 8

Not yet answered

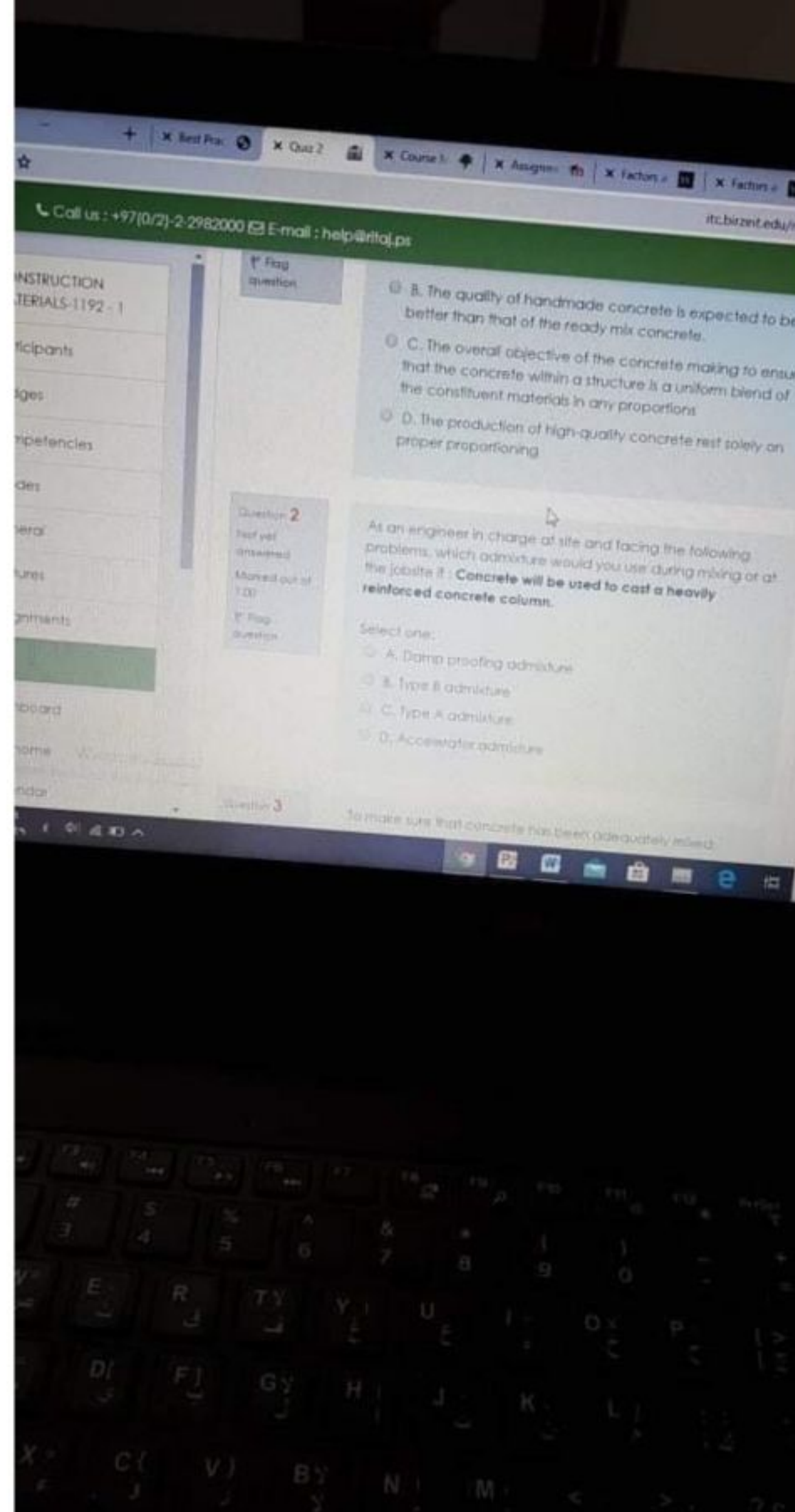
Marked out of 2.00

Flag question

The cement content in mix design is 378 kg/m^3 , water content is 170 kg , the volume of fine aggregates is 30% of the total aggregate volume, entrapped air is 1% , specific gravity of cement, coarse aggregate and fine aggregate are respectively 3.15 , 2.70 and 2.60 . The mass of fine aggregate using the volume method will be approximately

- Select one:
- A. 550 Kg
 - B. 450 Kg
 - C. 510 Kg
 - D. 600 Kg

concrete slab 20 cm thick contains a layer of 15 reinforcing bars at 15 cm center to center, side of the slab such that cover under out 3 cm . The recommended concrete mix of such a slab



- B. The quality of handmade concrete is expected to be better than that of the ready mix concrete.
- C. The overall objective of the concrete making to ensure that the concrete within a structure is a uniform blend of the constituent materials in any proportions
- D. The production of high-quality concrete rest solely on proper proportioning

Question 2
Not yet answered
Marked out of 1.00
Flag question

As an engineer in charge of site and facing the following problems, which admixture would you use during mixing of at the jobsite if : **Concrete will be used to cast a heavily reinforced concrete column.**

- Select one:
- A. Damp proofing admixture
 - B. Type B admixture
 - C. Type A admixture
 - D. Accelerator admixture

Question 3

To make sure that concrete has been adequately mixed

Question 6

Complete

Mark 0.00 out of 1.00

Flag question

As an engineer in charge at site and facing the following problems, which admixture would you use during mixing or at the jobsite if : **More time is expected to be needed for finishing concrete.**

Select one:

- A. Accelerator admixture
- B. Type B admixture
- C. Water reducer and retarder (Type G)
- D. Air Entrainer

Question 7

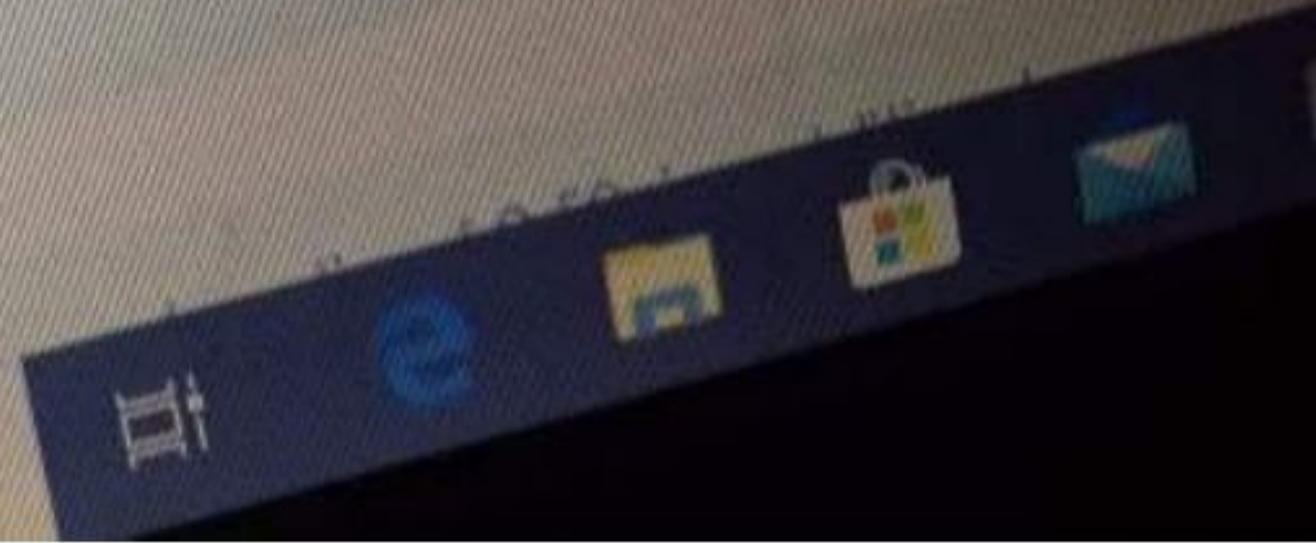
Select the correct statement from the following

The design engineer specifies a concrete strength of 35 MPa. The
an extensive history of producing concrete with $s = 4.1$ MPa is approximately

Select one:

- A. 40 MPa
- B. 43.5 MPa
- C. 40.5 MPa
- D. 41 MPa

[Clear my choice](#)



With respect to Curing Methods, consider the following statements:

1. Using impervious papers or plastic sheets represents "maintaining the presence of water in the concrete" curing approach.
2. The moisture-retaining fabric covering method is considered to be a satisfactory curing method especially for vertical concrete elements if the fabric is kept continuously wet.
3. Fogging can be considered as the best curing approach in high temperature and low humidity environments.
4. Steam curing is the most suitable method in the precast concrete industry as it can shorten the manufacturing time significantly and increase the late strength of concrete.

The correct statements from the above are

Select one:

- A. 1, 2 and 3
- B. 2 and 4
- C. 2. and 3
- D. All statements are correct

1.00
Flag
Question

	Without Water Reducer	Case 1	Case 2	Case 3
Cement Content, kg/m ³	850	850	850	795
Water Content, kg/m ³	465	465	370	418
Slump, mm	50	100	50	50
Compressive Strength, MPa	37.8	38.0	46	37.9

Using water reducer, the case where we reduce cost without changing workability or strength is

- Select one:
- A. Case 1 only
 - B. Case 1, 2 and 3
 - C. Case 2 only
 - D. Case 3 only

[Clear my choice](#)

Comparing form vibrators to table vibrators

- Select one:
- A. Vibrating tables are much more effective than form vibrators.

Question 6
Not yet answered
Marked out of 1.00
Flag

answered
Marked out of
1.00
Flag
question

of a plasticizer are shown below.

	With Water Reducer			
	Without Water Reducer	Case 1	Case 2	Case 3
Cement Content, kg/m ³	850	850	850	765
Water Content, kg/m ³	405	405	370	419
Slump, mm	50	100	50	50
Compressive Strength, MPa	37.8	38.0	46	37.9

Using water reducer, the case where we increase the compressive strength of concrete without changing workability is

Select one:

- A. Case 1 only
- B. Case 3 only
- C. Case 2 only
- D. Case 2 and 3

[Clear my choice](#)

1
2
3
4
5
6
9
10

Finish attempt ...

Time left 0:02:25

The following data is available in a mix design

- The Coarse aggregate weight (SSD) is 1350 kg/m^3 and the effective absorption is 2%
- The Fine aggregate weight (SSD) is 500 kg/m^3 and the effective absorption is 0.5%.

The required adjustments for aggregate moisture from the above data is/are:

1. The quantity of coarse aggregate should be decreased by 27 kg.
2. The quantity of fine aggregate should be increased by 2.5 kg.
3. The quantity of mixing water per m^3 should be increased by 29.5 kg.

Of the above, the correct answer is

Select one:

- A. 1, 2 and 3
- B. 1 and 2
- C. 1 and 3
- D. 2 and 3

Clear my choice

The required average compressive strength

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curing approach.

2. The moisture-retaining fabric covering method is considered to be a satisfactory curing method especially for vertical concrete elements if the fabric is kept continuously wet.
3. Fogging can be considered as the best curing approach in high temperature and low humidity environments.
4. Steam curing is the most suitable method in the precast concrete industry as it can shorten the manufacturing time significantly and increase the late strength of concrete.

The correct statements from the above are

Select one:

- A. 2 and 3
- B. All statements are correct
- C. 2, 3 and 4
- D. 2 and 4
- E. 1, 2 and 3

Click my choice



- A. Case 1 only
- B. Case 2 only
- C. Case 1 and 3
- D. Case 3 only

[Clear my choice](#)

Pick the correct statement

Select one:

- A. The overall objective of the concrete making to ensure that the concrete within a structure is a uniform blend of the constituent materials in any proportions.
- B. The production of high-quality concrete rest solely on proper proportioning
- C. The quality of handmade concrete is expected to be better than that of the ready mix concrete.
- D. Lack of sufficient attention to mixing and handling, can result in poor concrete.

Select the correct statement from the following

Select one:

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Question
Not yet answered
Marked out of 1.00
Flag question

Consider the following statements
As a good practice in concrete placing

1. The collision between concrete and formwork or reinforcement should be avoided.
2. The rate of placement should not be rapid to allow for workers to complete the consolidation properly.
3. Concrete can be dropped freely for about 2 m in walls and columns
4. The concrete should be placed vertically against, and not away from, the previously placed concrete.

Of these statements

Select one:

- A. 2 and 3 are wrong
- B. All statements (1-4) are correct
- C. 1, 2 and 4 are correct
- D. 1 and 3 are wrong

[Clear my choice](#)

[Clear my choice](#)

Consider the following statements

Proper use of internal vibrators include

1. Vibrators can be used to move concrete horizontally
2. To avoid the internal effects of bleeding, the vibrator should penetrate to the bottom of the layer and at least 150 mm into any previously placed layer
3. The distance between insertions should be about $1 \frac{1}{2}$ times the effective radius of the vibrator
4. To speed up the compaction, internal vibrators can touch the reinforcing bars of the element but not the formwork.

Of these statements

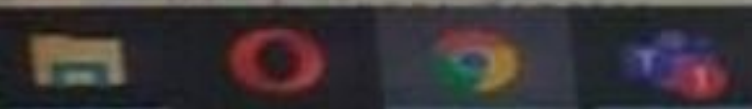
Select one:

- A. 2 and 4 are correct
- B. 1 and 3 are correct
- C. 2 and 3 are correct
- D. All statements (1-4) are correct

[Clear my choice](#)

As an engineer in charge and facing the following problems, which admixture would you use during mixing or at the jobsite if **There is a large quantity of freshly mixed concrete and the work at the jobsite had to stop because of rain.**

Select one or more:



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29/4/2020

Not yet answered
Marked out of 1.00
Flag question

The results of a laboratory experiment to evaluate the effects of a plasticizer are shown below.

	With Water Reducer			
	Without Water Reducer	Case 1	Case 2	Case 3
Coment Content, kg/m ³	850	850	850	785
Water Content, kg/m ³	465	465	370	419
Slump, mm	50	100	50	50
Compressive Strength, MPa	37.8	38.0	48	37.9

Using water reducer, the case where we improve workability without changing the compressive strength is

- Select one:
- A. Case 1 only
 - B. Case 2 only
 - C. Case 3 only
 - D. Case 1 and 3

[Clear my choice](#)