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الفصل الدراسي الثاني 8 آب / 2024

المدّة: 80 د

الرقم:

نموذج A

مقرر اللغة الإنكليزية 4

Concrete in Civil Engineering

Concrete is a fundamental material in civil engineering, widely used for constructing buildings, bridges, roads, and other infrastructure. It is composed of three main ingredients: cement, water, and aggregates, which include sand, gravel, or crushed stone. When these components are mixed together, they form a paste that hardens over time, creating a solid and durable structure.

The strength and durability of concrete depend on the proportions of these ingredients and the quality of the materials. The water-cement ratio is particularly important; too much water can weaken the concrete, while too little water can make it difficult to mix and pour. Proper curing, which involves keeping the concrete moist for a specific period, also plays a crucial role in achieving the desired strength.

Concrete can be reinforced with steel bars or mesh to increase its tensile strength. This reinforcement helps concrete structures withstand various forces and stresses, making them suitable for larger and more complex projects. Advances in concrete technology have led to the development of high-performance concrete, which offers greater strength, durability, and resistance to environmental factors.

Overall, concrete remains a versatile and essential material in civil engineering, enabling the construction of safe and long-lasting infrastructure that supports modern society.

Answer the following with A= True, B= False

- Concrete is only used for constructing buildings.
- The main ingredients of concrete are cement, water, and aggregates.
- The water-cement ratio does not affect the strength of concrete.
- Proper curing is essential for achieving the desired strength of concrete.
- Concrete cannot be reinforced.

6. What are the three main ingredients of concrete?

- Cement, water, and aggregates
- Sand, gravel, and steel
- Water, sand, and bricks
- Cement, steel, and glass

7. Why is the water-cement ratio important?

- It affects the color of the concrete.
- It influences the strength of the concrete.
- It determines the cost of the concrete.
- It controls the setting time of the concrete

8. What is high-performance concrete known for?

- Being cheaper than regular concrete
- Offering greater strength and durability
- Setting faster than regular concrete
- Being lighter in weight

9. What is one of the key benefits of proper curing of concrete?

- It speeds up the construction process.

- It prevents the concrete from hardening.
- It helps achieve the desired strength.
- It makes the concrete waterproof.

10. The text has _____ paragraphs

- 4
- 5
- 6
- 7

Choose the Right vocabulary to Fill in the Space:

11. Mixtures consist of two or more elements or compounds which are _____ together

- put
- mixed
- melt
- compound

12. When you think of examples of hi-tech materials, _____ materials come to mind- such as carbon-fibre

- chemical
- mixtures
- composite
- glass

13. _____ steels, which contain chromium as well as other metals - such as nickel, and which don't rust

- low alloy steels
- tool steels
- stainless steels
- high strength steels

14. One weakness of mild steel is that it _____

- melts
- rusty
- react
- corrods

15. Steel comes in a huge range of different _____, each with different characteristics.

- grades
- levels
- knots
- fabrics

16. Anodizing, is used to _____ aluminium.

- charge
- protect
- galvanize
- place

17. Sheets of glass, which are obviously flat and thin, are called _____ glass.

- annealed
- float
- laminated
- toughened

18. So for most engineering and architectural uses, _____ glass is unsuitable.

- annealed
- float
- laminated
- toughened

19. This is made by laminating glass with a polymer.

_____ glass

- annealed
- float
- laminated
- toughened

20. 'One type of safety glass is _____ glass, also called tempered glass.

- annealed
- float
- laminated
- toughened

21. allows concrete to stay wet for longer

- retarder
- plasticizer
- cement
- batcher

22. makes drier concrete easier to work with

- retarder
- plasticizer
- cement
- batcher

23. When timber is inspected by a person who looks for weaknesses, it is _____

- mechanically stress- graded
- stress grade
- planned
- visually stress- graded

24. When timber is inspected by a machine which tests its strength, it is _____

- mechanically stress- graded
- stress grade
- planned
- visually stress- graded

25. Extension is also called _____

- compression
- elongation
- tension
- deformation

26. Tension or compression cause

- compression
- elongation
- tension
- deformation

27. Rocks can be mixtures of several _____, and may also contain previously organic material

- minerals
- powders
- metals
- ore

28. _____ materials are often intended to be melted or mixed.

- mixed
- placed
- flat
- raw

29. Powder particles are _____ pellets.

- smaller than
- larger than
- equal to
- similar to

30. _____ are intended for melting and forming in moulds.

- sheets
- wires
- bars
- pellets

31. The disadvantage of toughened glass is that it can't withstand impacts from ____ objects, such as flying stones.

- A. big B. large C. mass D. small

32. Car windscreens are made by _____ glass to a polymer, such as polyvinyl butyral (PVB), to form a type of safety glass

- A. bonding B. laminating C. tempering D. plan

33. Coniferous trees grow relatively fast, providing a rapidly replaceable source of _____

- A. timber B. glue C. wood D. plies

Fill in the Spaces with one of the given words above the text:

- A. abrasion B. durability C. indentation
D. scratch E. elastic

The cutting wheel will be surrounded by transparent guards. These will allow the operator to see the cutting wheel at all times, and will shield the operator from flying metal fragments. The guards must therefore be constructed from material with a high degree of (34) _____ hardness, to protect it from impacts. As the guards will require regular cleaning, the action of wiping away metal fragments will result in (35) _____. The guards must, therefore, have sufficient (36) _____ hardness in order to retain their transparency and ensure adequate (37) _____.

- A. Reinforced B. aluminium- reinforced C. reinforce
D. reinforcement E. reinforcing

(38) _____ concrete is one of the most widely used construction materials, and one we take for granted. However, using steel bars to (39) _____ concrete structures located outdoors is only possible thanks to a fortunate coincidence: concrete and steel have practically the same coefficient of thermal expansion - in other words, as atmospheric temperature varies, the concrete and the steel (40) _____ expand and contract at the same rate, allowing uniform movement. Using a (41) _____ material with a different coefficient of expansion would not be feasible. For example, (42) _____ concrete would quickly disintegrate.

Choose the correct answer for the following:

43. The weather was terrible; _____, we decided to go for a walk.

- a. however b. because c. although d. despite

44. _____, we arrived at the destination on time.

- a. Fortunately b. Fortune c. Fortunate d. Misfortunate

45. He's always busy; he has _____ free time.

- a. little b. few c. many d. much

Grammar Section:

46. The teacher reprimanded the student because he _____ the test.

- a. cheat b. cheated c. was cheating d. had cheated

47. I _____ when the phone rang.

- a. read b. reading c. was reading d. am reading

48. Since the concert ended, I _____ any songs from that band.

- a. didn't hear b. haven't heard c. don't hear d. hear not

49. He never _____ about his plans.

- a. discussing b. discuss c. discussed d. discusses

50. It was the best meal they _____.

- a. ever cook b. ever cooked
c. have ever cooked d. have ever cook

51. Why not _____ over and join us for dinner?

- a. to come b. come c. coming d. came

52. I am developing the habit of _____ out loud when I study.

- a. speaking b. speak c. to speak d. to speaking

53. I know someone who wrote a book about _____ life of Gandhi.

- a. a b. an c. the d. off

54. Basketball is often associated _____ high levels of fitness.

- a. to b. into c. with d. within

55. He cares _____ his pets and takes good care of them.

- a. of b. to c. about d. off

56. After finishing his degree, he applied _____ graduate school.

- a. to b. into c. in d. for

57. She insisted _____ paying for the meal.

- a. on b. in c. at d. about

58. My colleague complained _____ the changes in the project.

- a. for b. to c. of d. about

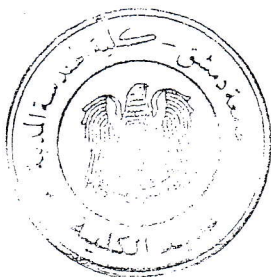
59. He chose _____ course that has _____ highest rating.

- a. a/the b. an/the c. the/the d. a/--

60. She goes to _____ bed early every night.

- a. the b. a c. an d. ---

Best of Luck



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Ey/A

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Concrete in Civil Engineering

Concrete is a fundamental material in civil engineering, widely used for constructing buildings, bridges, roads, and other infrastructure. It is composed of three main ingredients: cement, water, and aggregates, which include sand, gravel, or crushed stone. When these components are mixed together, they form a paste that hardens over time, creating a solid and durable structure.

The strength and durability of concrete depend on the proportions of these ingredients and the quality of the materials. The water-cement ratio is particularly important; too much water can weaken the concrete, while too little water can make it difficult to mix and pour. Proper curing, which involves keeping the concrete moist for a specific period, also plays a crucial role in achieving the desired strength.

Concrete can be reinforced with steel bars or mesh to increase its tensile strength. This reinforcement helps concrete structures withstand various forces and stresses, making them suitable for larger and more complex projects. Advances in concrete technology have led to the development of high-performance concrete, which offers greater strength, durability, and resistance to environmental factors.

Overall, concrete remains a versatile and essential material in civil engineering, enabling the construction of safe and long-lasting infrastructure that supports modern society.

Read the Text and Answer the Following Questions**1. What are the three main ingredients of concrete?**

- Cement, water, and aggregates
- Sand, gravel, and steel
- Water, sand, and bricks
- Cement, steel, and glass

2. Why is the water-cement ratio important?

- It affects the color of the concrete.
- It influences the strength of the concrete.
- It determines the cost of the concrete.
- It controls the setting time of the concrete

3. What is high-performance concrete known for?

- Being cheaper than regular concrete
- Offering greater strength and durability
- Setting faster than regular concrete
- Being lighter in weight

4. What is one of the key benefits of proper curing of concrete?

- It speeds up the construction process.
- It prevents the concrete from hardening.
- It helps achieve the desired strength.
- It makes the concrete waterproof.

5. The text has _____ paragraphs

- 4
- 5
- 6
- 7

Answer the following with A= True, B= False

- Concrete is only used for constructing buildings.
- The main ingredients of concrete are cement, water, and aggregates.
- The water-cement ratio does not affect the strength of concrete.
- Proper curing is essential for achieving the desired strength of concrete.
- Concrete cannot be reinforced.

Choose the Right vocabulary to Fill in the Space:

- Mixtures consist of two or more elements or compounds which are _____ together
A. put B. mixed C. melt D. compound
- When you think of examples of hi-tech materials, _____ materials come to mind- such as carbon-fibre
A. chemical B. mixtures C. composite D. glass
- _____ steels, which contain chromium as well as other metals - such as nickel, and which don't rust
A. low alloy steels B. tool steels
C. stainless steels D. high strength steels
- One weakness of mild steel is that it _____
A. melts B. rusty C. react D. corrods
- Steel comes in a huge range of different _____, each with different characteristics.
A. grades B. levels C. knots D. fabrics
- Anodizing, is used to _____ aluminium.
A. charge B. protect C. galvanize D. place
- Sheets of glass, which are obviously flat and thin, are called _____ glass.
A. annealed B. float C. laminated D. toughened
- So for most engineering and architectural uses, _____ glass is unsuitable.
A. annealed B. float C. laminated D. toughened
- This is made by laminating glass with a polymer.
_____ glass
A. annealed B. float C. laminated D. toughened
- 'One type of safety glass is _____ glass, also called tempered glass.
A. annealed B. float C. laminated D. toughened
- allows concrete to stay wet for longer
A. retarder B. plasticizer C. cement D. batcher
- makes drier concrete easier to work with
A. retarder B. plasticizer C. cement D. batcher
- When timber is inspected by a person who looks for weaknesses, it is _____
A. mechanically stress- graded B. stress grade
C. planned D. visually stress- graded
- When timber is inspected by a machine which tests its strength, it is _____
A. mechanically stress- graded B. stress grade
C. planned D. visually stress- graded
- Extension is also called _____
A. compression B. elongation C. tension D. deformation
- Tension or compression cause
A. compression B. elongation C. tension D. deformation



27. Rocks can be mixtures of several _____, and may also contain previously organic material

- A. minerals B. powders C. metals D. ore

28. _____ materials are often intended to be melted or mixed.

- A. mixed B. placed C. flat D. raw

29. Powder particles are _____ pellets.

- A. smaller than B larger than
C. equal to D. similar to

30. _____ are intended for melting and forming in moulds.

- A. sheets B. wires C. bars D. pellets

31. The disadvantage of toughened glass is that it can't withstand impacts from _____ objects, such as flying stones.

- A. big B. large C. mass D. small

32. Car windscreens are made by _____ glass to a polymer, such as polyvinyl butyral (PVB), to form a type of safety glass

- A. bonding B. laminating C. tempering D. plan

33. Coniferous trees grow relatively fast, providing a rapidly replaceable source of _____

- A. timber B. glue C wood D. plies

Fill in the Spaces with one of the given words above the text:

- A. abrasion B. durability C. indentation
D. scratch E. elastic

The cutting wheel will be surrounded by transparent guards. These will allow the operator to see the cutting wheel at all times, and will shield the operator from flying metal fragments. The guards must therefore be constructed from material with a high degree of (34) _____ hardness, to protect it from impacts. As the guards will require regular cleaning, the action of wiping away metal fragments will result in (35) _____. The guards must, therefore, have sufficient (36) _____ hardness in order to retain their transparency and ensure adequate (37) _____.

- A. Reinforced B. aluminium- reinforced C. reinforce
D. reinforcement E. reinforcing

(38) _____ concrete is one of the most widely used construction materials, and one we take for granted. However, using steel bars to (39) _____ concrete structures located outdoors is only possible thanks to a fortunate coincidence: concrete and steel have practically the same coefficient of thermal expansion - in other words, as atmospheric temperature varies, the concrete and the steel (40) _____ expand and contract at the same rate, allowing uniform movement. Using a (41) _____ material with a different coefficient of expansion would not be feasible. For example, (42) _____ concrete would quickly disintegrate.

Choose the correct answer for the following:

43. The weather was terrible; _____, we decided to go for a walk.

- a. however b. because c. although d. despite

44. _____, we arrived at the destination on time.

- a. Fortunately b. Fortune c. Fortunate d. Misfortunate

45. He's always busy; he has _____ free time.

- a. little b. few c. many d. much

Grammar Section:

46. Basketball is often associated _____ high levels of fitness.
a. to b. into c. with d. within

47. He cares _____ his pets and takes good care of them.
a. of b. to c. about d. off

48. After finishing his degree, he applied _____ graduate school.
a. to b. into c. in d. for

49. She insisted _____ paying for the meal.
a. on b. in c. at d. about

50. My colleague complained _____ the changes in the project.
a. for b. to c. of d. about

51. He chose _____ course that has _____ highest rating.
a. a/the b. an/the c. the/the d. a/--

52. She goes to _____ bed early every night.
a. the b. a c. an d. ---

53. The teacher reprimanded the student because he _____ the test.

- a. cheat b. cheated c. was cheating d. had cheated

54. I _____ when the phone rang.

- a. read b. reading c. was reading d. am reading

55. Since the concert ended, I _____ any songs from that band.
a. didn't hear b. haven't heard c. don't hear d. hear not

56. He never _____ about his plans.
a. discussing b. discuss c. discussed d. discusses

57. It was the best meal they _____.
a. ever cook b. ever cooked
c. have ever cooked d. have ever cook

58. Why not _____ over and join us for dinner?
a. to come b. come c. coming d. came

59. I am developing the habit of _____ out loud when I study.
a. speaking b. speak c. to speak d. to speaking

60. I know someone who wrote a book about _____ life of Gandhi.
a. a b. an c. the d. off

Best of Luck



B/E4

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TEST FROM

B/E4

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 عبدالله بن مسعود
 توزيع الامتحان: الدكتور
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جامعة دمشق



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