



Benha University

English Language exam

First year Architecture department

Faculty of Engineering

Date: 13 / 1 / 2022

Examined by: Noha Bakry

Total mark: 50 Time: 2 Hours

Code NO. : 1103

I. TEXT BOOK

(MODEL 1)

Choose the right answer from a, b, c, or d: [1 Mark for each]

1. Maximum loads are based on predicted
 a. Specification b. worst case scenarios c. drawing d. requirements
2. On top of maximum loads, additional safety margins are..... .
 a. Factored in b. sized c. quantified d. described
3. For cost reasons, components should not be..... .
 a. Overdesigned b. designed c. quantified d. sized
4. The practice of overdesigning components can be described as the..... approach.
 a. Belt and braces b. factor of safety c. function d. cost-effective
5.components means calculating their dimensions.
 a. Quantifying b. sizing c. over designing d factoring

Match the descriptions with the names of views used on drawings (a - e).

- | | |
|--|--------------------------|
| 6. A 2D view of the side of an object. | A. a plan |
| 7. A 2D view inside an object, as if it is cut through | b. a section |
| 8. A 2D view, looking down on top of an object | c. an elevation |
| 9. A 3D view, showing an assembly taken to pieces | d. an oblique projection |
| 10. A 3D view, with the 2D face of the object at the front | e. an exploded view |

Complete the following technical conversation with words from the list:

- (a. Cost effective b. budget c. exceed d. constraint e. existing)

Cost limitations are always a (11) but some finance is available. A (12)has been allocated for the preliminary design phase _a total of 35,000. But we mustn't (13)that amount. Obviously, if we spend \$80 on components for each appliance, and the appliances are sold for \$70, that's not a (14)design solution. When these appliances are already on the market. They are considered as (15).....ones .

Match the key elements of a brief with their meanings: [1 Mark for each]

- | | |
|-------------------------|---|
| 16. function | a. the product`s intended use (what it is designed to do). |
| 17. constraints | b. how well the products should perform compared with existing models |
| 18. comparative targets | c. limits on the design. |
| 19. design features | d. the cost limits that mustn't be exceeded. |
| 20. budget | e. specific things the new design mut have . |

Choose the right answer to form the technical definitions for each word:

- (a. An extranet b. Data transmission c. A micro browser d. Reboot)

21.is a network that allows communication between company and the people it deals with.
22.is the process of sending data over a communication channel .
23.to restart the computer, without switching it off completely.
24.is a web browser designed for small screens and hand held device.

Choose (a) for true (b) for false:

25. Steel is an alloy of iron and carbon. ()
26. Stainless steel is an alloy steel. ()
27. Most engineering designs allow for excessive or abnormal operating conditions. ()
28. Loads are quantified based on the most extreme situations. ()
29. Polymers are compounds made up of several elements that are chemically bound. ()
30. The radius of the tyre is measured from the center of the wheel to the outside edge of the tyre. ()
31. Tungsten is added to steel to make it softer. ()

Match to form complete sentences:

- | | |
|-------------------------------------|---------------|
| 32. Used for forming melted plastic | a. thermosets |
| 33. A very elastic polymer | b. latex |
| 34. A very strong thermoset resin | c. mould |
| 35. Material used to make rubber | d. elastomer |
| 36. A plastic that sets permanently | e. epoxy |

Complete the notes, using the following words:

- (a. Circular b. radius c. diameter d. circumference e. arc)

Before tyres are fitted to vehicles:

37. Shape is round, outside edge is perfectly
38. Distance from center of wheel to edge of tyre =
39. Total distance across tyre: $2 \times \text{radius} = \dots\dots\dots$ of tyre.
40. All measurements from center to points around tyre`sare equal.
41. Bottom of tyre is the of a circle.

Match the two columns to complete the definitions:

- | | |
|---|-------------------------|
| 42. The highest point of a horizontal pipe. | a. The chord |
| 43. The lowest point of the inside of the horizontal pipe. | b. the crown |
| 44. The maximum overall external width of a pipe. | c. the invert |
| 45. The maximum internal width between the pipe walls | d. the outside diameter |
| 46. When bottom of tyre is compressed, it changes to a straight line as | e. the bore |

Complete with the right answers from the following list:

- (a. Duralumin b. Titanium c. Zinc d. Copper e. Gold)

47.is an Aluminum alloy that also contains Copper and Magnesium.
48.has a high strength to weight ratio and is often allowed with Aluminum.
49.can be mixed with Copper to make Brass.
50.can be mixed with Tin and lead to produce Bronze.
51.resist corrosion better than the precious metal, Silver.

Match to form right descriptions:

- | | |
|--|---------------------|
| 52. Gravel used in concrete | a. retarder |
| 53. Sand used in concrete | b. plasticizer |
| 54. Powder that enables concrete to set | c. coarse aggregate |
| 55. Allows concrete to stay wet for longer | d. fine aggregate |
| 56. Makes drier concrete easier to work with | e. cement |

Complete the following sentences using these words:

(a. Electrolyte b. galvanizing c. negative d. plated)

57. In electroplating, check that there is sufficientin the bath to completely cover the components.
58. To ensure that the components will subsequently be over its entire surface area.
59. Ensure that the component is connected to theterminal of electric supply.
60. Ensure that the metal being used for plating as zinc for..... is connected to the positive terminal.

2.GRAMMAR AND STRUCTURES

Match each compound with its definition:

- | | |
|--|-------------------|
| 61. A small piece of silicon which is used in computers | a. address bus |
| 62. A site that offers email, news, web searching, and links to other sites. | b. recording head |
| 63. A utility used to adjust computer settings such as fonts, sound, and networks. | c. control panel |
| 64. The read\write head of a disk drive. | d. web-portal |
| 65. A computer bus used by the CPU to communicate memory locations. | e. silicon chip |

Complete the following sentences with these words:

(a. alloy b. corrodes c. corroded d. corrosion)

66. when steel is exposed to air and water, it
67. A brown -red material on the surface of steel is called
68. The strength of steel is reduced if it is.....
69. Weathering steel is a special.....suitable for out- door use.

Choose the right answer:

(a- encrypted b- update c- uninstall d- upload e- decompresses)

70. In cyberspace means to send a file.
71. You can easilyyour files by adding or deleting information.
72. The computer compresses and.....a clear image in less than a second.
73. The program ran so slowly, I had to.....it.
74. Your financial information is fullyand can't be accessed.

Choose the correct answer:

75. Waterat 100 C .
a. Boil b. boils c. is boiling d. has boiled
76. Beth: Iyou outside the hotel in half an hour, ok? Ann : yes, that's fine.
a. Meet b. met b c. I'll meet d. have met
77. John is in the library now. He.....for three hours.
a. reads b. is reading c. has been reading d. has read
78. please be quiet. I.....to concentrate .
a. try b. trying c. am trying d. tired
79. every morning, the sun shines in my bed room window and.....me up.
a. Wake b. wakes c. waked d. is walking
80. Breakfast is an important meal. Ibreakfast.
a. always eat b. always eating c. am always eating d. was always eating
81. I wonder why sue so serious these days! She isn't really like that.
a. Is b. is being c. was d. was being
82. I don't approve of Ann`s behavior. She.....angry all the time.
a. Is b. is being c. was d. was being
83. Do you usually feel.....before examination?
a. Nervous b. nervously c. more nervous d. most nervous
84. Unfortunately, her illness was..... we thought at first.
a. Serious b. seriously c. the most serious d. more serious than
85. It is a very old castle. It`s one of.....castles in Britain.
a. old b. elder c. the oldest d. the eldest
86. Everybody was.....that he passed the examination.
a. Surprise b. surprised c. surprising d. surprisingly
87. The film was I expected it to be much better.
a. disappointed b. disappointing c. disappointingly d. disappoint
88. Her three-year-old boy is really..... . he is hyper active and has to follow him step by step.
a. tire b. tiringly c. tiring d. tired
89. Julia isin politics and is thinking of writing articles for the local newspaper.
a. interest b. interesting c. interested d. interestingly
90. Don't go up that ladder. It doesn't look..... .
a. Safe b. safely c. much safely d. most safely

BEST WISHES

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(MODEL 1)

- | | | | |
|-------|-------|-------|-------|
| 1. B | 2. A | 3. A | 4. A |
| 5. B | 6. C | 7. B | 8. A |
| 9. E | 10. D | 11. D | 12. B |
| 13. C | 14. A | 15. E | 16. A |
| 17. C | 18. B | 19. E | 20. D |
| 21. A | 22. B | 23. D | 24. C |
| 25. A | 26. A | 27. A | 28. A |
| 29. A | 30. A | 31. B | 32. C |
| 33. D | 34. E | 35. B | 36. A |
| 37. A | 38. B | 39. C | 40. D |
| 41. E | 42. B | 43. C | 44. D |
| 45. E | 46. A | 47. A | 48. B |
| 49. C | 50. D | 51. E | 52. C |
| 53. D | 54. E | 55. A | 56. B |
| 57. A | 58. D | 59. C | 60. B |
| 61. E | 62. D | 63. C | 64. B |
| 65. A | 66. B | 67. D | 68. C |
| 69. A | 70. D | 71. B | 72. E |
| 73. C | 74. A | 75. B | 76. C |
| 77. C | 78. C | 79. B | 80. A |
| 81. B | 82. A | 83. A | 84. D |
| 85. C | 86. B | 87. B | 88. C |
| 89. C | 90. A | | |