I. TEXT BOOK   (MODEL 2)

Match the descriptions with the names of views used on drawings (a - e).
  1.   A 2D view of the side of an object.   A. a plan
  2.   A 2D view inside an object, as if it is cut through   b. a section
  3.   A 2D view, looking down on top of an object   c. an elevation
  4.   A 3D view, showing an assembly taken to pieces   d. an oblique projection
  5. 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 (6) .... but some finance is available. A (7) ....has been allocated for the preliminary design phase _a total of 35,000. But we mustn't (8) ....that amount. Obviously, if we spend $80 on components for each appliance, and the appliances are sold for $70, that's not a (9) ....design solution. When these appliances are already on the market. They are considered as (10)...................ones .

Match the key elements of a brief with their meanings: [1 Mark for each]
  11. function   a. the product`s intended use (what it is designed to do)
  12. constraints   b. how well the products should perform compared with existing models
  13. comparative targets   c. limits on the design
  14. design features   d. the cost limits that mustn't be exceeded
  15. budget   e. specific things the new design mut have

Choose the right answer from a, b, c, or d: [1 mark for each]
  16. Maximum loads are based on predicted ....
     a. Specification   b. worst case scenarios   c. drawing   d. requirements
  17. On top of maximum loads, additional safety margins are..................... .
     a. Factored in   b. sized   c. quantified   d. described
  18. For cost reasons, components should not be.................. .
     a. Overdesigned   b. designed   c. quantified   d. sized
  19. The practice of overdesigning components can be described as the....... .... approach.
     a. Belt and braces   b. factor of safety   c. function   d. cost-effective
  20. ....components means calculating their dimensions.
     a. Quantifying   b. sizing   c. over designing   d factoring

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 following sentences using these words:

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

37. In electroplating, check that there is sufficient ………………..in the bath to completely cover the components.
38. In order to ensure that the components will subsequently be ……………….. over its entire surface area.
39. Ensure that the component is connected to the ……………………terminal of electric supply.
40. Ensure that the metal being used for plating as zinc for………………….. is connected to the ……………… .

Complete the notes, using the following words:

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

Before tyres are fitted to vehicles:
41. Shape is round, outside edge is perfectly ……………………… .
42. Distance from center of wheel to edge of tyre $=$ ………………… .
43. Total distance across tyre: 2× radius$=$ ……………….of tyre.
44. All measurements from center to points around tyre`s …………………are equal.
45. Bottom of tyre is the …………………… of a circle.

Match the two columns to complete the definitions:

46. The highest point of a horizontal pipe.	a. The chord
47. The lowest point of the inside of the horizontal pipe.	b. the crown

48. The maximum overall external width of a pipe.   c. the invert
49. The maximum internal width between the pipe walls   d. the outside diameter
50. 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)
51. ....is an Aluminum alloy that also contains Copper and Magnesium.
52. ....has a high strength to weight ratio and is often allowed with Aluminum.
53. ....can be mixed with Copper to make Brass.
54. ....can be mixed with Tin and lead to produce Bronze.
55. ....resist corrosion better than the precious metal, Silver.

Match to form right descriptions:
56. Gravel used in concrete   a. retarder
57. Sand used in concrete   b. plasticizer
58. Powder that enables concrete to set   c. coarse aggregate
59. Allows concrete to stay wet for longer   d. fine aggregate
60. Makes drier concrete easier to work with   e. cement

2.GRAMMAR AND STRUCTURES

Complete the following sentences with these words:

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

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

Match each compound with its definition:
65. A small piece of silicon which is used in computers   a. address bus
66. A site that offers email, news, web searching, and links to other sites.   b. recording head
67. A utility used to adjust computer settings such as fonts, sound, and networks.   c. control panel
68. The read\write head of a disk drive.   d. web-portal
69. A computer bus used by the CPU to communicate memory locations.   e. silicon chip

Choose the right answer:
   (a- encrypt   b- update   c- uninstall   d- upload   e- decompress)

70. In cyberspace ……………………. means to send a file .
71. You can easily …………………….your 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 fully ……………………and can't be accessed.

Choose the correct answer:

75. Breakfast is an important meal. I ……………………………..breakfast.
    a. always eat   b. always eating   c. am always eating   d. was always eating

76. I wonder why sue ……………… so serious these days! She isn't really like that.
    a. Is   b. is being   c. was   d. was being

77. I don't approve of Ann`s behavior. She…………...angry all the time.
    a.   Is   b. is being   c. was   d. was being

78. Do you usually feel………………..before examination?
    a.   Nervous   b. nervously   c. more nervous   d. most nervous

79. Unfortunately, her illness was……………… we thought at first.
    a.   Serious   b. seriously   c. the most serious   d. more serious than

80. It is a very old castle. It`s one of…………………..castles in Britain.
    a.   old   b. elder   c. the oldest   d. the eldest

81. Everybody was………………that he passed the examination.
    a.   Surprise   b. surprised   c. surprising   d. surprisingly

82. The film was ………………… I expected it to be much better.
    a.   disappointed   b. disappointing   c. disappointingly   d. disappoint

83. 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

84. Julia is ……………..in politics and is thinking of writing articles for the local newspaper.
    a.   interest   b. interesting   c. interested   d. interestingly

85. Water ……………………..at 100 C .
    a.   Boil   b. boils   c. is boiling   d. has boiled

86. Beth: I …………….you 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

87. John is in the library now. He…………………………for three hours.
    a. reads   b. is reading   c. has been reading   d. has read

88. please be quiet. I…………………………..to concentrate .
    a.   try   b. trying   c. am trying   d. tired

89. every morning, the sun shines in my bed room window and…………..me up.
    a.   Wake   b. wakes   c. waked   d. is walking

90. Don't go up that ladder. It doesn`t look…………. .
    a.   Safe   b. safely   c. much safely   d. most safely

BEST WISHES

Banha university   **first year architecture department**

      English Language exam   **Faculty of Engineering**
Date: 13 / 1 / 2022   Total mark: 50 Time: 2 Hours
Examined by: Noha Bakry   Code NO. : 1103 ح

(MODEL 2)

1. C	2. B	3. A	4. E
5. D	6. D	7. B	8. C
9. A	10. E	11. A	12. C
13. B	14. E	15. D	16. B
17. A	18. A	19. A	20. B
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. D	39. C	40. B
41. A	42. B	43. C	44. D
45. E	46. B	47. C	48. D
49. E	50. A	51. A	52. B
53. C	54. D	55. E	56. C
57. D	58. E	59. A	60. B
61. B	62. D	63. C	64. A
65. E	66. D	67. C	68. B
69. A	70. D	71. B	72. E
73. C	74. A	75. A	76. B
77. A	78. A	79. D	80. C
81. B	82. B	83. C	84. C
85. B	86. C	87. C	88. C
89. B	90. A		