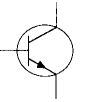
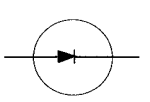

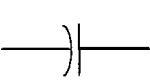
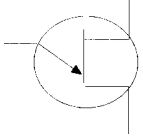


31 가?
가. PNP
 . NPN
 . FET
 . MOS FET

32 (active component)
?
가. .
 . .

33 PCB
?
가. (etching resist)
 . (solder resist)
 . (photo resist)
 . (plating resist)

34 (SCR) ?
가.  . 
 .  . 

35 ?
가. (TR)
 . (DIAC)
 . (TRIAC)
 (UJT) 

36 KS ?
가. KS A . KS B . KS C . KS D

37 NS가 ?
가. .
 . .

38 ?
가. .
 . .

39 CAD 가
가?
가. .
 . .

40 PCB ?
가. .
 . .

41 ?
가. KS . DIN . ISO . ANSI

42 ?
가. . . . NS

43 $12k\Omega \pm 5\%$?
가. , , ,
 . , , ,
 . , , ,
 . , , ,

44 102J
?
가. $1[\mu F]$. $0.1[\mu F]$
 . $0.01[\mu F]$. $0.001[\mu F]$

45 (PCB) ?
가. .
 . .
 . 가가 .

46 CAD 가 ?
가. (touch screen)
 . (film recorder)
 . (color printer)
 . X-Y (plotter)

47 ?
가. , 0.3 0.5mm .
 . 가 .
 . ,
 . .

48 CAD 가
?
가. .
 . .
 . .

49 "2SC1815Y" 가?
가. .
 . .

50 PCB ?
가. component side pattern
 . top silk screen
 . solder side pattern
 . solder mask

51 CAD Tool Analog PCB
(Hum) (Noise)
가 가 ?
가. (Ground)
 . (Vcc)
 . (Signal)
 . (Bias)

52 PCB ?
"2.54mm ()mil ."
가. 1 . 10 . 100 . 1000

53 ?
가. .
 . .
 . .

54 가
曹 , 가?
가. .
 . .

55 CAD ?
가. .
 . .

56 ?
가. 가 .
 . 가 .

57 PCB Artwork 가
?
가. Netlist . Library
 . Component . Symbol

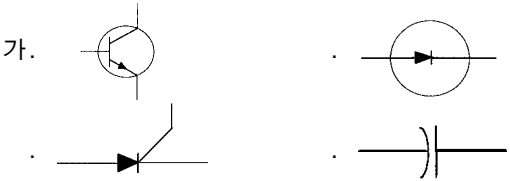
58 ,
?
가. (assembly drawing)
 . (partial assembly drawing)
 . (detail drawing)
 . (process drawing)

59 ?
가. .
 . .
 . .

60 PCB 2 Layer Ground Power
4-Layer PCB ?
가. .
 . (Earth)
 . .
 . PCB

()	6785	1	B		
-----	------	---	---	--	--

1 (SCR) ?

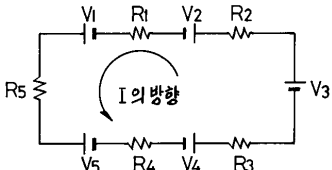


2 NS가 ?

가. .
. .

3 $V_1=10[V]$, $V_2=5[V]$, $V_3 = 3[V]$,
 $V_4=6[V]$, $V_5=4[V]$, $R_1=2[\]$, $R_2=3[\]$, $R_3=4[\]$,
 $R_4=5[\]$, $R_5=6[\]$, (I)
가?

가. 2.8[A]
. 1[A]
. 0.5[A]
. 0.1[A]



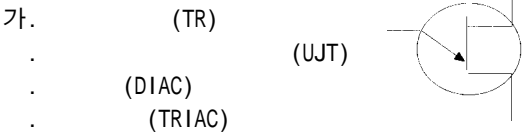
4 가?



5 가 가?

가. 1 . 2 . 3 . 4

6 ?



7 coil 가?

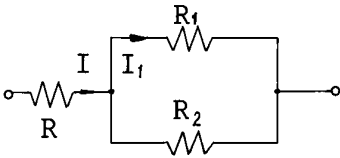
가. 90° . 90° .
. . .

8 CAD ?

가. .
. .

9 가 I[A] I₁ ?

가. $I_1 = I(\frac{R_2}{R_1+R_2})[A]$
. $I_1 = I(\frac{R_1}{R_1+R_2})[A]$
. $I_1 = I(\frac{R_1+R_2}{R_2})[A]$
. $I_1 = I(\frac{R_1+R_2}{R_1})[A]$



10 10(V) 1(mV) 가 (dB) ?

가. 50(dB) . 60(dB)
. 70(dB) . 80(dB)

11 (structured programming) ?

가.
. 가
. .
. .

12 (A+B)(A+C) 가 ?

가. A+C . A+BC . B+C . B+AC

13 가 ?

가. .
. .

14 PCB Artwork 가 ?

가. Netlist . Library
. Component . Symbol

15 ?

가. .
. .

16 ?

가. KS . DIN . ISO . ANSI

17 ?

가. . NS

18 ?

가. .
. .
. .

19 $\mu_o[H/m]$?

가. 4×10^{-7} . 6.33×10^{-4}
. 8.855×10^{-12} . 9×10^9

20 ?

가. .
. .

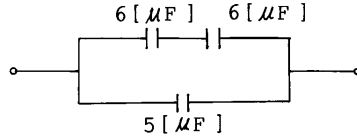
21 가

曹 , 가?

가. .
. .

22 ?

가. 3[μF]
. 5[μF]
. 8[μF]
. 12[μF]



23 PCB ?

"2.54mm ()mil ."

가. 1 . 10 . 100 . 1000

24 12k $\Omega \pm 5\%$?

가. , , ,
. , , ,
. , , ,
. , , ,

25 CAD Tool Analog PCB (Hum) (Noise)

가 가 ?

가. (Ground)
. (Vcc)
. (Signal)
. (Bias)

26 CAD 가 ?

가. (touch screen)
. (film recorder)
. (color printer)
. X-Y (plotter)

27 ?

가. , 0.3 0.5mm
. 가
. .
. .

28 (active component) ?

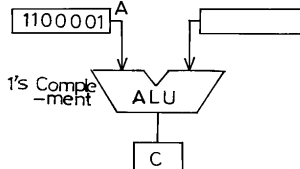
가. .
. .

29 (CPU)

? 가.
. 曹
. .

30 ALU A (register) 1's Complement (1) C register ?

가. 0011110
. 0101010
. 1111110
. 0011111



31 CAD 가 ?

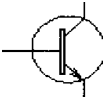
가.
. .
. .

32 가 1 가?

가. . 100[%]
. .

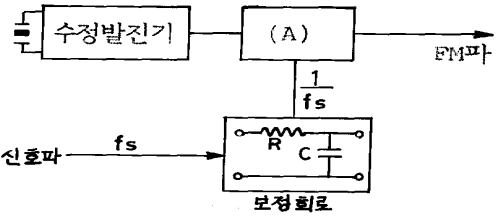
33 가?

가. PNP
. NPN
. FET
. MOS FET



34

block (A) FM ?



가. .

35

가. $\sqrt{-1}$ 가 .

가. .

36

가. 가?

가. (Punching) . (Coding) . (Debugging) . (Blocking)

37

PCB ?

가. (etching resist) . (solder resist) . (photo resist) . (plating resist)

38

4096 word 16bits MAR bit

가. 8 . 12 . 16 . 4096

39

PCB ?

가. component side pattern . top silk screen . solder side pattern . solder mask

40

(PCB) ?

가. . . .

41

曹 ? 曹

가. DMA . FIFO . I/O

42

"2SC1815Y" 가?

가. .

43

가. .

가. .

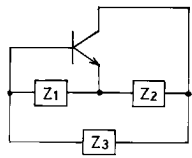
44

PCB ?

가. .

45

가 가 ?



가. .

46

? 가. . . .

47

가 4K (address) ?

가. 1 4000 . 0 4000 . 1 4095 . 0 4095

48

102J ?

가. 1[μF] . 0.1[μF] . 0.01[μF]

49

? 가. . 가 .

50

CAD 가 가?

가. .

51

가. (assembly drawing) . (partial assembly drawing) . (detail drawing) . (process drawing)

52

N I[A] r[m] ?

가. NI r $\frac{NI}{2r}$ $\frac{NI}{r}$ $\frac{2NI}{r}$

53

CPU ?

가. 栓 栓 栓 栓 . 栓 栓 栓 栓 . 栓 栓 栓 栓 . 栓 栓 栓 栓

54

, ? 가. . . .

55

PCB 4 ?

가. . . .

56

" 가 ? ."

가. . . .

57

PCB 2 Layer Ground Power 4-Layer PCB ?

가. . (Earth) . PCB

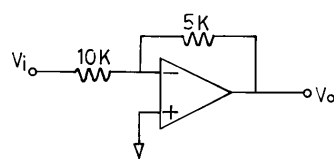
58

PCB ?

가. Printed Component Board . Pattern Circuit Board . Printed Circuit Board . Pattern Component Board

59

V_o/V_i ?



가. -2 . 50 . -50 . $-\frac{1}{2}$

60

KS ?

가. KS A . KS B . KS C . KS D