**Multiple choice questions**

**1. I/P Voltages on Audio & RIA Card.**

(a) 3 (b) 4 (c) 5 (d) 6

**2 How many COM ports are available in ETC’s?**

(a) 2 (b) 3 (c) 4 (d) 1

**3. How many USB ports are available in ETC’s?**

1. 2 (b) 3 (c)4 (d) 1

**4. ETC MKIII works on USB standard.**

(a) 2.0 (b) 1.0 (c) 3.0 (d) 1.1

**5. PCMCIA converts Bus to Bus.**

(a) ISA to PCI (b) PCI to ISA (c) PCMCIA to ISA (d) PCI to PCMCIA

**6. What is the Function of VRMS module?**

(a) Convert 24V to 3.3V and 5V. (b) Convert 15V to 3.3V and 5V.

(c) Convert 24V to 15V. (d) Convert 15V to 24V.

**7. What is the backup time for internal Battery used in ETC?**

(a) 10min (b) 15min (c) 20min (d) 5min

**8. Types of modulation used in GDU.**

(a DQPSK (b) PSK (c) FSK (d) DQFSK

**9. Types of Microcontroller used in GDU .**

(a) 16F 877 (b) 16F 879 (c) 16F 899 (d) 89 C 51

**10. Serial ports and USB ports are routed to EM through & module.**

(a) PCMCIA and RIA card (b) BACK PLANE and PANEL Connector

(c) BACK PLANE and PCMCIA (d) PANEL connector and MULTIUSE adapter

**11. What is function of PS module?**

(a) Convert 24V to 3.3V and 5V (b) Convert 24V to15V only

(c) Convert 24V to 15V and 15VHeater (d) Convert 24V to 5V

**12. How many ports are there in LIU?**

(a) 5 (b) 8 (c) 3 (d) 6

**13. How many ports are there in LTU?**

(a) 5 (b) 8 (c) 3 (d) 6

**14. What is Power consumption of ETC ?**

(a) >45 W (b) >60 W (c)>30 W (d) >90 W

**15. What functions of Display Assy can be tested using Display/KB Test Station?**

(a) Brightness, Power LED, KEYBOARD, AUDIO, Touch Screen and Pointing Device.

(b) Brightness, Display only.

(c) Brightness, Power LED, USB, COM and Pointing Device.

(d) Pointing Devise, LAN port, GPS.

**16. PS Test Station works on**

1. Manual/Automatic mode. (b) Remote mode only.

(c) Manual mode only. (d) Automatic mode only.

**17. How many modems are there in ETC?**

(a) 2 (b) 1 (c) 3 (d) 4

**18. Internal modem not detecting Problem can be with**

(a) MODEM, Flex modem, PCMCIA Card, BACKPLANE, EM

(b) MODEM only (c) PCMCIA Card, BACKPLANE only (d) EM only

**19. VGA screen is red Problem can be with**

(a) PANEL Connector (b) BACKPLANE (c) PANEL Connector, BACKPLANE, EM (d) EM

**20. Red color Power Led indication on the FRONT PANEL of ETC signifies-**

(a) External Power Failure

(b) Disposable/Rechargeable battery

(c) VRMS card failure

(d) Backplane module failure

**21. Amber color LED indication on the FRONT PANEL of ETC signifies**

(a) External Power Failure

(b) Disposable/Rechargeable battery Failure

(c) VRMS card failure

(d) Backplane module failure

**22. How many PCB modules are there in Display Assembly?**

(a) 2 (b) 3 (c) 4 (d) 5

**23. The AUDIO and RIA card in GDU is used for**

(a) Audio amplification and 155MM Bofors GUN interface.

(b) Audio amplification only.

(c) Audio amplification and 120MM D30 GUN interface.

(d) SOLTAM GUN interface.

**24. FUSE rating of GDU is**

(a) 1A (b) 3.15A (c) 2A (d) 5A

**25. GDU internal battery rating is**

(a) 12V (d) 9V (c) 14.4v (d) 18V

**26. Input voltage of GDU is**

(a) 10 to 24V (b) 9 to 16 V (c) 10 to 20 V (d) 10 to 30V

**27. The output of DC-DC charger card is**

(a) 12V and 13V (b) 13.5V and 14.5 V (c) 16.5V and 17.5 V (d) 17.5V and 18.5V

**28. The DOT matrix LED segment of GDU is**

(a) 4 X 8 (b) 7 X 5 (c) 4 X 5 (d) 6 X 8

**29. What is RAM capacity of HHC Processor?**

(a) 256MB (b) 512MB (c) 128MB (d) 64MB

**30. What is the speed of processor of HHC?**

(a) 200MHz (b) 400MHz (c) 100MHz (d) 333MHz

**31. What is the battery storage capacity of HHC?**

(a) 9V,2.4 AH (b)7.4V,2.4AH (c)12V,2AH (d)15V,1AH

**32. HHC Operating System is loaded in which part of memory.**

(a) RAM (b) SDRAM (c) FLASH (d) ROM

**33. In HHC operating system is\_\_\_\_**

(a) Window xp (b) win CE 5.0 (c) window 7 (d) none of the above

**34. Keyboard is connected to which module of HHC**

(a) GPS card (b) Processor (c) Battery (d) All the above.

**35. RTC operating voltage is**

(a) 2V (b) 3V (c) 3.3V (d) 4V

**36. Touch screen failure is related to which module.**

(a) LCD, Processor (b) GPS card (c) GPS antenna (d) Keyboard

**37. VRMS works on**

(a) 15V only (b) External battery input only

(c) 15V and External battery input. (d) 24 V input

**38. Back battery in ETC is used for**

(a) Storing data (b) Real time clock operation

(c) Proper shut down (d) Supply to VRMS

**39. GDU LTU operates on**

(a) 12V (b) 24V (c) 9V (d) None of the above

**40. In ETC Hard disk heater gets switched ON at \_\_\_\_\_Temperature?**

(a) 10 deg (b) 20 deg (c) Below 0 deg (d) Below 10 deg

**41. The output level of LIU port is.**

(a) 20dB (b) 13Db (c) 0dB (d) 16dB

**42. GDU LTU operates on.**

(a) 12V (b) 24V (c) 9V (d) None of the above

**43. Power failure is related to which module.**

(a) LCD, Processor (b) GPS card (c) GPS antenna (d) Keyboard

**44. What is memory storage capacity of SD card?**

(a) 4MB (b) 2MB (c) 4GB (d) 2GB

**45. HHC FOT loaded in which part of memory.**

(a) FLASH (b) SDRAM (c) SD CARD (d) ROM

**46. Modulation used in GDU.**

(a) Amplitude (b) Frequency (c) FSK (d) None of the above

**47. MAC address available in ETC.**

(a) I/O card (b) Core card (c) CPU card (d) Host card

**48. Which Combination keys used for OS loading in HHC?**

(a) CTL+ALT+O (b) ALT+O (c) ALT+SHIFT+O (d) None of these

**49. LIU always connected to port.**

(a) Com Port (b) R2 port (c) R2 port 1st radio interface (d) R1 port

**50. Protection cct used in LIU are.**

(a) Surge arrestor (b) Arrestor (c) Fuses (d) MCB

**Answer sheet**

1. D
2. A
3. C
4. A
5. C
6. B
7. A
8. A
9. C
10. B
11. C
12. C
13. B
14. C
15. A
16. A
17. A
18. A
19. C
20. A
21. B
22. C
23. A
24. B
25. C
26. B
27. C
28. B
29. A
30. B
31. B
32. C
33. B
34. B
35. C
36. A
37. C
38. C
39. D
40. C
41. A
42. D
43. B
44. C
45. C
46. D
47. A
48. A
49. C
50. A