STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI - 600 086
(For candidates admitted during the academic year 2015 – 16 and thereafter)

SUBJECT CODE: 15CS/MC/CC24

B. C. A. DEGREE EXAMINATION, APRIL 2018
SECOND SEMESTER

COURSE : MAJOR CORE
PAPER : COMPUTER CONCEPTS
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION A

ANSWER ALL QUESTIONS: **(20 X 1 = 20)**
Choose the best answer:

1. Punch card system was developed by _____.
   a. Edmund Gunter b. Blasie Pascal c. Jacquard d. Charles Babbage
2. _____ language uses mnemonic code for instructions.
   a. Low Level b. Assembly c. High level d. Intermediate
3. _____ is a high speed memory between RAM and CPU.
   a. Cache b. Secondary c. Primary d. All the mentioned
4. An example of Input devices is _____.
   a. Joy stick b. scanners c. web camera d. All the mentioned
5. Gray code is also known as _____ code.
   a. reflected b. parity code c. excess 3 d. none
6. _____ is called weighted code.
   a. 8421 b. 2423 c. 2421 d. excess 3
7. The _____ field is used to locate the operands needed for the operation.
   a. data b. mode c. operand d. opcode
8. The overflow bit is represented by the symbol _____.
   a. O b. E c. S d. V
9. Applications which require bidirectional data transfer simultaneously is called _____.
   a. simplex b. half duplex c. full duplex d. none
10. _____ service enables a group of Internet users to exchange their views, ideas on common topic of interest.
    a. Email b. FTP c. Telnet d. Usenet

Fill in the blanks:

11. A _____ translates high level program into machine language.
12. _____ was the first mechanical calculating device for counting of large numbers.
13. The register that contains the address of the next instruction to be processed is _____.
14. The devices that are used for direct data entry to the computer system are called _____.
15. The complement of the function F = AB+C'D is _____.
16. The 2 's complement of the number 11010 is _____.
17. The register that holds the address for the stack is called _____.
18. Expand CISC _____.
19. Twisted pair is also known as _____.
20. _____ is the process of moving a file from a remote computer to one's own computer.

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SECTION B

ANSWER ALL THE QUESTIONS: (5 X 2 = 10)

21. What are called instructions and write its format?
22. What are called Input devices e? Give an example.
23. Write the symbol for NAND gate and its truth table.
24. What is an Interrupt? Explain its types.
25. Define FTP.

SECTION C

ANSWER ANY EIGHT OF THE FOLLOWING QUESTIONS: (8 X 5 = 40)

26. Explain the Characteristics of Computer.
27. With a neat diagram, explain about Instruction Cycle.
28. Write notes on Optical Disk.
29. Explain about any three output devices.
30. Simplify the following Boolean function $F(A,B,C,D) = \sum(0,1,2,6,8,9,10)$ using map method.
31. Subtract 72532 – 13250 using 10's complement.
32. How will you evaluate Arithmetic expression using stack pointer?
33. Explain the uses of logical and Bit Manipulation Instructions.
34. Write short notes on any data transmission media.
35. Explain the uses of Internet.

SECTION D

ANSWER ANY THREE OF THE FOLLOWING QUESTIONS: (3 X 10 = 30)

36. Explain in detail about the generations of computers.
37. Discuss about the different types of memory.
38. Discuss in detail about the Error detection codes.
39. Explain in detail about the various addressing modes available with an example.
40. Discuss in detail about the various topology available in networks.

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