FIRST YEAR HIGHER SECONDARY MODEL EXAMINATION, FEBRUARY 2020
COMPUTER APPLICATION (COMMERCE)

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1. UNICODE
2. ACCUMULATOR
3. HDMI
4. INTEGRATED DEVELOPMENT ENVIRONMENT
5. void
6. Google
7. (1010) -> (11) -> (20) -> (F)
8. Data refers raw facts and figures and the processed form of data is information.
9. QR code is similar to barcodes. Barcodes are single dimensional whereas QR codes are two dimensional.
10. Top down design and Bottom up design
11. insertion operator is used to specify output statements and extraction operator is used to specify input statements.
12. R- value is 25 and L-value is 1005
13. p++,++p, p+=1, p=p+1
14. Single line comments and Multi line comments
15. int i, sum=0; / for(i=10;i<=20;i++) / sum=sum+i
16. Resource sharing/Price-performance ratio/Communication/Reliability
17. DoS attack, Man-in-the-Middle attacks, Phishing, Trojan Horse
18. business process Outsourcing, Knowledge Process Outsourcing, call centre, teleconferencing
19. sign & magnitude- 1 0010000, 1's – 11101111, 2's – 11110000
20. Laptop, LED Monitor, Repair
21. 1)adaptable functionality, less overall cost, vendor in dependency, open standard, security, interoperability

2) four levels

22. step1-start/ step2- input a1,a2/step-3 if a1>a2 then/step-4 print a1/step5- else/step5- print a2/step6- end of if step7-stop
23. Arithmetic (+,*,) Logical (&&,!,) Relational (<,!=)
24. a) Tokens are the fundamental building block of the program.

b) Keywords/Identifier/Literals/Punctuators/Operators

25. a) x=2 and y=2.5

b) The datatype conversion from lower to higher is called type promotion and the programmer explicitly casts a data to the desired type known as type casting.

26. a) Type modifiers help us to alter the size, range or precision of data.

b) signed, unsigned, long and short

27. swich(r)

{   case 0: cout<<"Pass";

case 1:cout<<"fail";

default: cout<<"Invalid input";
```
    }
```
28. a) Bluetooth and Wi-fi

   b) Relatively inexpensive than wired media/ Can penetrate through most objects/   Less secure/Permission required

29.   -> avoid unnecessary uploading of personal data

          -> setting time schedule for saving wastage of money

          -> set privacy level

30. a) provides facility to do online courses from various nationally or internationally reputed institutions. Less cost

   b) www.ignouonline.ac.in ,www.ncert.nic.in

31. a) Translation is the process of converting a program written in high level language into machine language.

   b) The process of detecting and correcting errors called debugging

   c) documentation is writing comments in the source code.

   d) should begin with instructions, use variable to refer the data, should be precise   and unambiguous.

32. a) The way in which the nodes are physically interconnected to form a network is called topology.

   b)Bus topology, Easy to install, require less cable length

   c) PAN/LAN/WAN/MAN

33. a) int i=1,j=2; ------- initialisation

   i<=20 -------------- condition

   cout<<i<<"x"<<j<<"=".......... body of loop

   i++;... update

   b) i