

FIRST YEAR HIGHER SECONDARY EXAMINATION, MARCH 2020

COMPUTER APPLICATION (COMMERCE) – ANSWER KEY

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1. 16
2. High Definition Multimedia Interface
3. Assembler
4. Add
5. Void
6. TCP/IP
7. ASCII, EBCDIC, ISCII, Unicode
8. I/P (mouse, joystick, microphone, scanner) – O/P (VDU, printer, plotter, speaker)
9. Flow charts are very time consuming, There are no standard
10. Datatype variable1,variable2,...; E.g.: int num;
11. Unary Operators (++,!) Binary (<, =)
12. Single line Comment (//), multi line comment (/* */)
13. Relational Operators (<, <=,>,>=, ==,! =), Logical Operators (&&, ||,!)
14. int i=1; while(i<=10) { cout<<i; i++; }
15. Receives incoming signals, amplify the signal and retransmit them.
16. Line of sight not required, it can connect up to eight devices simultaneously.
17. **cc (carbon copy)**-Write the email addresses of the secondary recipient, **bcc (blind carbon copy)** - write the email addresses of the tertiary recipients who receive the message. When the message is received the primary and secondary recipients cannot see the email addresses of the tertiary recipients in the message.
18. Teleconferencing is a meeting or conference held between two or more parties in remote locations by the use of ICT services.
- 19.

| RAM | ROM |
|--|-----------------------------|
| It is faster than ROM | It is a slower memory |
| It stores the OS, application programs | It stores booting program |
| It allows reading and writing | Usually allows only reading |

20. Reuse, Incineration, Recycling of e-waste and Land Filling
21. (i) Syntax error- When the rules of the programming language are not followed.
(ii) Logical Error – This error occurs due to improper planning of the program
(iii) Runtime Error- Run time errors shows when the program code is executing.
22. Tokens are fundamental building blocks of the program. KEYWORDS, IDENTIFIERS, LITERALS, PUNCTUATORS and OPERATORS
23. (i) z=2 (ii) True (iii) Invalid Question
24. O/p is 2, in this code, we have to promote data type. It should modified as z=(float)x/y
25. Type modifiers which help us to alter the size, range or precision of data types.
Type modifiers are signed, unsigned, long and short

26.

| switch statement | else if ladder |
|---|--|
| Permits multiple branching | Permits multiple branching |
| Evaluates conditions with equality operator | Evaluates any relational or logical expressions |
| Case constants must be an integer or character type | Conditions may include range of values and floating point |
| When no match is found, default statement is executed | When no expression is evaluate to true, else block is executed |

27. Network Protocol, Domain name and File Name

E.g. <http://www.dhsekerala.gov.in/index.html> http (protocol), www.dhsekerala.gov.in (Domain Name) and index.html (File Name)

28. LAN- a few meters to a few kilometers (up to 10km) area covered, High speed and inexpensive. WAN- Entire country, continent or globe covered and expensive

29. Search engine websites are special programs that are designed to help people to find information available in WWW. E.g. google, yahoo

30. It overcomes geographical limitations, it reduces the operational cost, it minimizes travel and time cost and it remains open all the time.

31. (i) 011110 (ii) a) $(21)_{10}$ b) (001 000 111) c) $(15F)_{16}$

32. i) 1 2 3 4 5

ii)

33. i) x

ii) int x,sum; - initialization

x<=5 - Test expression

x++ - Update

sum=sum+x; x++; - loop body iii) 15

