

SECOND YEAR HIGHER SECONDARY SECOND TERMINAL EXAMINATION, DECEMBER-2022

COMPUTER APPLICATION (COMMERCE)

ANSWER KEY

(01-06 Answer any 5, each carries 1 Score)

1. do...while
2. 9
3. Formal
4. 80
5. var
6. Joomla

(07-17 Answer any 9, each carries 2 Scores)

7. a) Implicit Conversion (Type promotion) $\frac{1}{2}$ score
 Explicit Conversion (Type casting) $\frac{1}{2}$ score
 b) Eg. $5/2 = 2$, $5/2.0 = 2.5$ $\frac{1}{2}$ score
 (float)5/2 = 2.5 or any example $\frac{1}{2}$ score

8.

break	continue
Control goes out of loop by skipping the remaining part	Skip the current iteration and control goes to next iteration
Usually used inside switch	Usually used inside loops
Used to transfer/terminate from current block	Used for skipping part in a loop and continue with next iteration

(Any 2 points, each carry 1 mark)9. `int NUM[5]={15,20,25,30,35};`10. a) 8 Bytes x 5 = 40 Bytes **(1 mark)**b) 4 Bytes x 5 = 20 Bytes **(1 mark)**11. a) Modular Programming : Process of splitting/breaking a large program/problem into independent small sub programs/problems or modules **(1 mark)**

- b) Reduce the program size,
 Reduce program complexity,
 Less chance of errors,
 Improved Reusability

(Any 2 Points $\frac{1}{2}$ mark each)

12. <BODY> attributes

Bgcolor, Background, Text, Link, Alink, Vlink, Leftmargin, Topmargin **(Any 4, $\frac{1}{2}$ each)**

13. Tag

(1 mark)

Src / source attribute

(1 mark)

14. <INPUT>

- Text/Textbox

- Password box
 - Checkbox
 - Radio/Radio Button
 - Reset Button / Button
 - Submit Button / Button
- (Any 4, ½ each)
15. Language document (1 Mark)
16. a) Content Management System (1 Mark)
- Web based software system, capable of creating, administrating and publishing Websites (Name only ½ mark)
- b) WordPress, Drupal, Joomla (1 Mark)
17. a) Degree: The number of attributes(fields/columns) in a relation(table) (Any 1, 1 Mark)
- b) Domain: Pool of values from which actual value appearing in a column (attribute) (1 Mark)

(18-28 Answer any 9, each carries 3 Scores)

18.

switch	if else ladder
Only equality conditions are checked.	Any relational expression can be used for conditions.
Break may be needed to exit from each case	No need of break to exit from one case
default case is used if all conditions are false	else case is used

(Each Point carry 1 mark, if Syntax only 2 Marks)

19. a) GOOD (1 Mark)
- Reason: Whitespaces are considered as string delimiter if cin is used (1 Mark)
- b) gets() [get() or getline() can be considered] (Any 1 , 1 Mark)
- 20.

Call by Value Method	Call by Reference Method
Ordinary variables are used as formal parameters.	Reference variables are used as formal parameters.
Actual parameters may be constants, variables or expressions.	Actual parameters will be variables only.
The changes made in the formal arguments do not reflect in actual arguments	The changes made in the formal arguments do reflect in actual arguments.
Exclusive memory allocation is required for the formal arguments.	Memory of actual arguments is shared by formal arguments.

(Any 3 Points, 3 Marks)

21. a)

Client side scripting	Server side scripting
Script is copied to the client browser	Script remains in the web server
Script is executed in the client browser	Script is executed in the web server and the web page produced is returned to the client browser
Client side scripts are mainly used for validation of data at the client.	Server side scripts are usually used to connect to databases and return data from the web server
Users can block client side scripting	Server side scripting cannot be blocked by a user
The type and version of the web browser affects the working of a client side script	The features of the web browser does not affect the working of server side script

(Any 2 Points, 2 Marks)

b) JavaScript / VBScript

(Any 1, 1 Mark)

22.

Container Tag	Empty Tag
<code></code> <code><H1></code> <code></code> <code><MARQUEE></code>	<code><HR></code> <code></code>

(Each carry ½ Mark)

23. a) Ordered List ,Unordered List , Definition list

(Each carry ½ Mark)

b) ``, ``, `<DL>` (Each carry ½ Mark) [`` or `<DT>` or `<DD>` ½ mark only]24. a) `<TABLE>` Attributes : Border, Bordercolor, Align, Bgcolor, Background, Cellspacing, Cellpadding, Width, Height

(Any 2, 1 Mark)

b) `<TABLE Border=1>``<TR><TH>Batch</TH><TH>Boys</TH><TH>Girls</TH></TR>``<TR><TD>Science</TD><TD>25</TD><TD>30</TD></TR>``<TR><TD>Commerce</TD><TD>28</TD><TD>32</TD></TR>``</TABLE>`

(2 Marks) [Tag names only max 1 Mark]

25.

String	Number	Boolean
"Computer"	75	false
"123"	67.4	
"true"		

(Each carry ½ Mark)

26. a) charAt()
 b) isNaN()
 c) toUpperCase() (Each carry 1 Mark)
27. Dedicated Hosting / Virtual Private Hosting (VPS) (1 Mark)
Dedicated: More Space, More bandwidth and speed, performance, secure, Less Traffic (Any 2, 1 Mark)
VPS: Less expensive, secure than shared hosting, virtually dedicated storage and RAM, Less traffic compared to shared (Any 2, 1 Mark)
28. i) Physical Level
 ii) Logical Level
 iii) View Level (Each Name carry ½ Mark)
 i) Physical: Lowest level, how data is actually stored in secondary storage devices
 ii) Logical: Next highest level, what data in the database & what relationship among those data, DBA decides what information to keep in database
 iii) View: highest level, describes user interaction with the database system, closest to the users (Each explanation carry ½ Mark)
- (29-31 Answer any 2, each carries 5 Scores)**
29. a) initialisation, test expression/condition, update statement, body of the loop (Each carry ½ Mark, Total 2)
- b) i=1; //initialisation
 i<=5; //test expression/condition
 i=i+2 //update statement
 sum = sum + i; //body of the loop (Each carry ½ Mark, Total 2)
- c) 9 or Error (Cout instead of cout) (1 Mark)
30. a) 5 b) 9 c) 0 (Zero) d) 1 (or any +ve no:) e) 8 (Each carry 1 Mark, Total 5)
31. a) Internal linking : link to a particular section of same document/web page
External linking: Link from one document/web page to another document/ web page (Each carry 1 Mark, Total 2)
- b) <A> tag or Anchor Tag (1 Mark)
 c) dhse (2 Marks, Href name only Max 1 Mark)