Reg. No. :

Name : ...

Time : 2 Hours
Cool-off time : 15 Minutes

Part – III

COMPUTER APPLICATION (Commerce)

Maximum : 60 Scores

General Instructions to Candidates :

- There is a 'cool-off time' of 15 minutes in addition to the writing time of 2 hrs.
- You are not allowed to write your answers nor to discuss anything with others during the 'cool-off time'.
- Use the 'cool-off time' to get familiar with questions and to plan your answers.
- Read questions carefully before answering.
- All questions are compulsory and only internal choice is allowed.
- When you select a question, all the sub-questions must be answered from the same question itself.
- Calculations, figures and graphs should be shown in the answer sheet itself.
- Malayalam version of the questions is also provided.
- Give equations wherever necessary.
- Electronic devices except non-programmable calculators are not allowed in the Examination Hall.

നിർദ്ദേശങ്ങൾ :

- നിർദ്ദിഷ്ട സമയത്തിന് പുറമെ 15 മിനിറ്റ് 'കൂൾ ഓഫ് ടൈം' ഉണ്ടായിരിക്കും. ഈ സമയത്ത് ചോദ്യങ്ങൾക്ക് ഉത്തരം എഴുതാനോ, മറ്റുള്ളവരുമായി ആശയവിനിമയം നടത്താനോ പാടില്ല.
- ഉത്തരങ്ങൾ എഴുതുന്നതിന് മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- എല്ലാ ചോദ്യങ്ങൾക്കും ഉത്തരം എഴുതണം.
- ഒരു ചോദ്യനമ്പർ ഉത്തരമെഴുതാൻ തെരഞ്ഞെടുത്തു കഴിഞ്ഞാൽ ഉപചോദ്യങ്ങളും അതേ ചോദ്യനമ്പരിൽ നിന്ന് തന്നെ തെരഞ്ഞെടുക്കേണ്ടതാണ്.
- കണക്ക് കൂട്ടലുകൾ, ചിത്രങ്ങൾ, ഗ്രാഫുകൾ എന്നിവ ഉത്തരപേപ്പറിൽ തന്നെ ഉണ്ടായിരിക്കണം.
- ചോദ്യങ്ങൾ മലയാളത്തിലും നൽകിയിട്ടുണ്ട്.
- ആവശ്യമുള്ള സ്ഥലത്ത് സമവാക്യങ്ങൾ കൊടുക്കണം.
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കുലേറ്ററുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.

P.T.O.

1. Which among the following is equivalent to the statement series b = a, a = a + 1 ?

   (a) b + = a

   (b) b = a++

   (c) b = ++a

   (d) b + = a + b   (Score : 1)

2. A designed website has to be uploaded into a _____ to make it available to the internet users all over the world.   (Score : 1)

3. A 4G mobile network uses _____.

   (a) CDMA

   (b) WCDMA

   (c) OFDMA

   (d) None of these   (Score : 1)

4. Write the output of the following C++ code segment.

   ```
   char S1[10] = "Computer";
   char S2[15] = "Applications";
   strcp (S1, S2);
   cout<<S2;
   ```
                                        (Score : 1)

5. Rewrite the following C++ code using 'switch' statement:

   ```
   cin>>pcode;
   if (pcode='C')
         cout<<"Computer";
   else if (pcode = 'M')
         cout<<"Mobile Phone";
   else if (pcode = 'L')
         cout<<"Laptop";
   else
         cout<<"Invalid code";
   ```
                                        (Scores : 3)

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6. Answer any **one** from **6(a)** or **6(b)**.

(a) Compare static and dynamic web pages.

OR

(b) Compare Client side scripting and Server-side scripting languages. (Scores : 3)

7. Answer any **one** question from **7(a)** or **7(b)**.

(a) Amita wanted to get the name 'www.smartproducts.com' for her newly designed website. How it is possible ?

OR

(b) Ajith created a website using the software 'Joomla'. What is the peculiarity of this software and write any four advantages of using this software. (Scores : 3)

8. Is it possible to combine SELECT and PROJECT operations of relational algebra into a single statement ? Explain with an example. (Scores : 2)

9. Write a short note on Android operating system. (Scores : 2)

10. What is copyright ? How does it differ from patent ? (Scores : 3)

11. In RDBMS a relation contains 10 rows and 5 columns. What is the degree of the relation ? (Score : 1)

12. What is an external JavaScript file ? Write the advantages of using an external JavaScript file. (Scores : 3)

13. Explain different level of data abstraction in DBMS. (Scores : 3)

14. _____ is an SQL datatype which is used to represent variable length string. **(Score : 1)**

15. A _____ statement in a loop forces the termination of that loop. **(Score : 1)**

16. _____ is a server that acts as a bridge between merchant server and bank server. **(Score : 1)**

17. Write C++ initialization statement to initialize an integer array name 'MARK' with the values 70, 80, 85, 90 **(Score : 1)**

18. Write a C++ program to input 10 numbers into an integer array and find the sum of numbers which are exact multiple of 5. **(Scores : 3)**

19. Explain two stream functions for input operation with example. **(Scores : 2)**

20. The structure of the table 'EMPLOYEE' is given below.

    Empcode   Numeric

    Empname   String

    Basicpay   Numeric

    DA   Numeric

    Grosspay   Numeric

    Write SQL statement for the following :

    (a) Insert a record into the table.

    (b) Update DA with 60% basic pay

    (c) Display the details of employees whose basic pay is greater than 20000.

    (d) Rename the table EMPLOYEE to EMPDETAILS **(Scores : 5)**

21. Write the complete HTML tag that links the text "PSC" to the website www.keralapsc.org. (Score : 1)

22. Explain nesting of framesets with an example. (Scores : 3)

23. Every web browser has default colors to display text and hyperlink. How can we change these default colour ? (Scores : 2)

24. Write the HTML code to create the following table :

No. of Students	
Science	55
Commerce	60
Humanities	58

(Scores : 2)

25. Answer any **one** question from **25(a)** or **25(b)**.

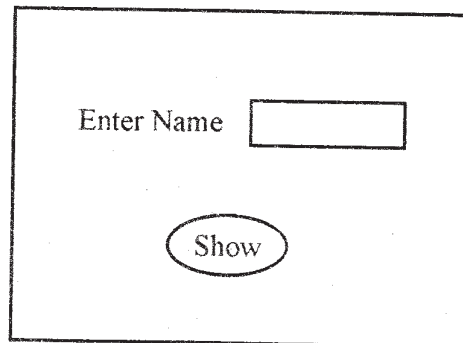(a) Explain the importance of BPR in ERP implementation.

OR

(b) Selection of ERP package is very crucial in the implementation of ERP system. Give a short note on any four popular ERP packages. (Scores : 5)

26. Develop a webpage to display the following screen :

The user can enter a name in the textbox. On checking the 'show' button the name entered in the textbox should be changed into uppercase. Include JavaScript code in the HTML for doing this.

(Scores : 3)

27. "Initialized formal arguments are called default arguments." Using this concept write the function prototype and definition of a user defined function Sum() which accept two or three integer numbers and return their sum.

(Scores : 3)

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