## Code No. 5019

Second Year – March 2017

Time: 2 Hours Cool-off time : 15 Minutes

Part - III

## COMPUTER SCIENCE

Maximum : 60 Scores

# Geneval 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
- Calculations, figures and graphs should be shown in the answer sheet itself. question 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, മറ്റുളളവരുമായി ആശയവിനിമയം നടത്താനോ പാടില്ല.
- ഉത്തരങ്ങൾ എഴുതുന്നതിന് മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം.
- എല്ലാ ചോദ്യങ്ങൾക്കും ഉത്തരം എഴുതണം.
- കഴിഞ്ഞാൽ തെരഞ്ഞെടുത്തു ഉത്തരമെഴുതാൻ ചോദ്യനമ്പർ
- ഉപചോദ്യങ്ങളും അതേ ചോദ്യനമ്പരിൽ നിന്ന് തന്നെ തെരഞ്ഞെടുക്കേണ്ടതാണ്. കണക്ക് കൂട്ടലുകൾ, ചിത്രങ്ങൾ, ഗ്രാഫുകൾ എന്നിവ ഉത്തരപേപ്പറിൽ തന്നെ
- ഉണ്ടായിരിക്കണം.
- ചോദ്യങ്ങൾ മലയാളത്തിലും നൽകിയിട്ടുണ്ട്.
- ആവശ്യമുള്ള സ്ഥലത്ത് സമവാക്യങ്ങൾ കൊടുക്കണം.
- ഒഴികെയുള്ള ഒരു കാൽക്കുലേറ്ററുകൾ ചെയ്യാനാകാത്ത പ്രോഗ്രാമുകൾ ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷാഹാളിൽ ഉപയോഗിക്കുവാൻ പാടില്ല.

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P.T.O.

G۷ Compare the aspects of arrays and structures. (Scores : 3 Bun time allocation of memory is triggered by the operator \_ (Score : 1) Represent the names of 12 months as an array of strings. OR A structure can contain another structure. Discuss. (Scores: 2) Ŷ Differentiate between Data Abstraction and Data Encapsulation. (Scores : 3) Queue follows the \_\_\_\_\_ principle. 5 (Score : 1) How does Stack overflow and underflow occur? (Scores : 2) Write a procedure to implement traversal operation in a linked list. 7. (Scores : 2) Default port number for HTTPS is 8. (Score:1)What are the various types of client side scripting languages? 9. (Scores : 2) Develop a web page of an organization with the following features : 10. Has an image as background. (a) Welcomes users with a marquee in attractive fonts. (b) Displays address of the organization. (c)(Scores: 3) 5019

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in Kerala. When a place is selected a detailed description should be available in a separate window.

A link to a particular section of the same document is called \_

OR

12. Create a web page using frames for Tourism department showing list of tourist places

Create a form that accepts information regarding a student. Fields necessary are name, age, class, sex, roll number, hobbies and date of birth. Use appropriate form controls.

(Scores: 5)

(Score: 1)

(Score:1)

A virtual machine for executing JavaScript code is

Discuss about six built in functions used in JavaScript. 14

- Design a procedure in JavaScript that takes two strings as input and displays the 15. concatenated strings as output.
- 16. An example of a virtualization software is

(Score : 1)

Discuss steps involved in registering the domain name of your school web site. (Scores : 2) 17.

Discuss advantages of DBMS. 18. (a)

> Create a database schema for the relation VEHICLE. (b)

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(Scores: 3)

(Scores: 2)

(Scores: 3)

(Scores: 2)

20. Null values in tables are specified as "null". State whether true or false. (Score : 1)

21. A web server that supports PHP on any operating system is \_\_\_\_\_.

22. Discuss about special data types used in PHP./

(Scores : 2)

(Score : 1)

23. Create an HTML form in PHP showing the difference of the GET and POST method.

### )))))

Write a function in PHP to find the factorial of a number.

#### (Scores: 3)

24. (a) A widely used operating system for cluster computers is \_\_\_\_\_. (Score : 1)

- (b) Discuss advantages of grid computing, cluster computing and cloud computing. (Scores: 3)
- 25. (a) An Educational channel of Kerala Government is \_\_\_\_\_. (Score : 1)

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(b) Discuss about the schemes used in protecting intellectual property. (Scores : 3)