http://csjmuonline.com

http://csjmuonline.com

Roll No.

BCA-403(N)

B. C. A. (Fourth Semester) EXAMINATION, May, 2019

(New Course)

Paper Third

SOFTWARE ENGINEERING

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt questions from all Sections as directed.

The candidates are required to answer only in Inst.: serial order. If there are many parts of a question, answer them in continuation.

Section-A

(Short Answer Type Questions)

Note: All questions are compulsory. Each question carries 3 marks.

- 1. (A) Describe IÈEE definitions software engineering. Explain the basic difference between program and software.
 - (B) What do you understand by functional and nonfunctional requirements?
 - What do you understand by problem domain in software development life cycle.

http://csjmuonline.com

http://csimuonline.com

[2]

BCA-403(N)

http://csjmuonline.com

- following (D) Define the terms in software designing:
 - (i) Modularity
 - (ii) Abstraction
- Explain coding guidelines and good coding style in software implementation.
- What do you mean by SEI capability maturity model (CMM)? http://csimuonline.com
- (G) Explain various cost-estimation techniques. Explain the importance of KLOC and effort estimation in calculation of software cost.
- (H) What are the main reasons of higher software maintenance cost?
- How does CASE support software in engineering?

Section—B

(Long Answer Type Questions)

Note: Attempt any two questions. Each question carries 12 marks.

- 2. (a) What do you understand by Risk Analysis? With the help of a diagram, explain spiral model. Write the weakness and strength of spiral model.
 - Explain the characteristics of software quality . 4
- 3. (a) Explain important issues of SRS. Define component and structure of SRS. 8
 - (b) What do you understand by review for correctness in requirement analysis? 4

http://csjmuonline.com

(B-10) P. T. O.

- Explain various software design principles in detail. Differentiate between top-down bottom-up approach of designing. 8
 - Differentiate between function-oriented and object-oriented programming. 4
- 5. (a) What are the effects of module coupling and cohesion? If the module has logical cohesive, what kind of coupling is this module likely to have with others?
 - What do you understand by balancing a DFD ? Draw the data flow diagram (DFD) for the following description. Starting from zero level. 6 A Software has to be developed for automating the manual library of a University. The system/software designed provide to functionalities as explained:

issue of books

http://csjmuonline.com

return of books

query processing

report generation

(Consider as library management system)

Section-C

(Long Answer Type Questions)

Note: Attempt any two questions. Each question carries 12 marks.

What is the need of software maintenance? How 6. (a) are these maintained for client-server architecture environment.

(B-10)

http://csjmuonline.com

http://csjmuonline.com

BCA-403(N) [4]

Explain software configuration management in detail.

http://csimuonline.com

- 7. (a) Explain the issues of software implementation and Also explain the relationship between design and implementation.
 - What is requirement engineering? Explain the (b) steps of requirement engineering. 6
- 8. Explain the general architecture of CASE environment with tools... 12
 - Write short notes on the following: 4 cach
 - (a) Software testing
 - (b) Validation and verification
 - (c) Reverse Engineering

http://csjmuonline.com Whatsapp @ 9300930012 Your old paper & get 10/-पुराने पेपर्स भेजे और 10 रुपये पार्य, Paytm or Google Pay ₹

http://csjmuonline.com