

KNT/KW/16/5273

Bachelor of Computer Application (B.C.A) (Semester – V) Examination

SOFTWARE ENGINEERING–II

Paper—4

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) What is Data Design ? Explain data design at the architectural level. 5
- (b) Explain architectural patterns in detail. 5

OR

- (c) Explain data design at component level. 5
- (d) Explain Archetypes in detail. 5

EITHER

2. (a) Explain integration testing in the object oriented context. 5
- (b) Write short note on Black Box testing. 5

OR

- (c) Write short notes on :
 - (i) Security testing
 - (ii) Stress testing. 5
- (d) Explain debugging process in detail. 5

EITHER

3. (a) What is software quality ? Explain metrics for software quality. 5
- (b) Explain Function Based Matric in detail. 5

OR

- (c) Explain matrices for maintenance. 5
- (d) Explain matrices for Testing. 5

EITHER

4. (a) Explain seven principles of Risk Management. 5
- (b) Explain ISO 9000 Quality Standards. 5

OR

- (c) Describe review guidelines for conducting formal technical review. 5
- (d) Explain RMMM plan in detail. 5

5. Attempt **all** :

- (a) What is alpha and beta testing ? 2½
- (b) What is ISO 9126 quality factors ? 2½
- (c) Explain matrices for source code. 2½
- (d) What is software reliability ? 2½