



USN I B V 2 2 C S O 8 4

BCS501

Fifth Semester B.E. Degree Examination  
**SOFTWARE ENGINEERING AND PROJECT MANAGEMENT**

Time: 3 hrs.

Max. Marks: 100

Note:

1. Answer FIVE full questions, choosing ONE full question from each module.
2. Assume suitably any missing Data.

Q. No	Module - 1	Marks	CO, RBT
<del>1a</del>	Describe Software Engineering. What are the different types of software products	06	CO1, L2
<del>1b</del>	Explain briefly Software Engineering Ethics.	06	CO1, L2
<del>1c</del>	List out the advantages and disadvantages of Waterfall model. Also list out the scenarios when Waterfall model is appropriate to use in software development process.	08	CO1, L2
<b>OR</b>			
2a	With a neat diagram, explain briefly Incremental development and Bohem's Spiral model.	12	CO1, L2
2b	What are the attributes of good software? Explain the key challenges facing Software Engineering.	08	CO1, L2
<b>Module - 2</b>			
<del>3a</del>	Assume you are about to design an e-commerce website for your client. List out the possible non-functional requirement your development team should keep in mind.	5	CO2, L4
<del>3b</del>	Discuss the notations used for writing the system requirements.	5	CO2, L2
<del>3c</del>	With a neat diagram, explain the requirement elicitation and analysis process.	10	CO2, L2
<b>OR</b>			
4a.	Explain Requirement engineering in detail.	10	CO2, L2
4b.	Explain functional requirement? For the given functional requirement " The system must allow users to verify their accounts using their phone number ( may be using OTP). For this write down the verification method you propose.	5	CO2, L3
4c.	Describe requirement validation? Explain the different types of checks carried out during the process.	5	CO2, L2
<b>Module - 3</b>			
5a.	Discuss object orientation? Explain the characteristic of Object-oriented approach.	10	CO3, L2
5b.	Explain the design pattern with UML model of the observer model.	10	CO3, L3
<b>OR</b>			
<del>6a</del>	Explain with a suitable example the following UML diagrams: Use-case, Sequence, Object diagram.	10	CO3, L2
<del>6b</del>	Discuss open-source development? Explain general models of open source licensing.	10	CO3, L2
<b>Module - 4</b>			
<del>7a</del>	What are the different types of user testing? With a neat diagram, explain the six stages of accepting testing process.	10	CO4, L2
<del>7b</del>	List the three different types of testing carried out during software development and briefly explain them.	5	CO4, L2
<del>7c</del>	Explain the three distinct goals of software testing.	5	CO4, L2

# Engineering Management Exam Questions

**Jiuping Xu, Fulya Altiparmak, Mohamed  
Hag Ali Hassan, Fausto Pedro García  
Márquez, Asaf Hajiye**

## Engineering Management Exam Questions:

### Proceedings of the Sixteenth International Conference on Management Science and Engineering

**Management - Volume 2** Jiuping Xu, Fulya Altiparmak, Mohamed Hag Ali Hassan, Fausto Pedro García Márquez, Asaf Hajiyev, 2022-07-13 This book covers many hot topics including theoretical and practical research in many areas such as dynamic analysis machine learning supply chain management operations management environmental management uncertainty and health and hygiene It showcases advanced management concepts and innovative ideas The 16th International Conference on Management Science and Engineering Management 2022 ICMSEM will be held in Ankara Turkey during August 3 6 2022 ICMSEM has always been committed to promoting innovation management science M S and engineering management EM academic research and development The book provides researchers and practitioners in the field of Management Science and Engineering Management MSEM with the latest cutting edge thinking and research in the field It will appeal to readers interested in these fields especially those looking for new ideas and research directions U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974 *Engineering Technology, Engineering Education and Engineering Management* Deyao Tan, 2015-06-25 This volume contains papers presented at the International Conference on Engineering Technologies Engineering Education and Engineering Management ETEEEM 2014 Hong Kong 15 16 November 2014 A wide variety of topics is included in the book Engineering Education Education Engineering and Technology Methods and Learning Mechanisms in Engineering Education Engineering Technologies Mechanical and Materials Engineering Financial Engineering Energy and Environmental Engineering Social Engineering Information Engineering Bioengineering and Chemical engineering Engineering Management Decision Support System Project and Quality Management Human Resource Management The book will be of interest to academics and professionals in Engineering Technologies Engineering Education and Engineering Management IEEE Transactions on Engineering Management ,1954 CIMA - E1 Organisational Management BPP Learning Media, 2015-06-30 BPP Learning Media provides the widest range of study materials of any CIMA publisher Our comprehensive printed materials highlight the areas to focus on for your exams and our e Learning products complement the syllabus to improve your understanding Transactions of the IRE Professional Group on Engineering Management ,1954 Information Computing and Applications Chunfeng Liu, Jincal Chang, Aimin Yang, 2011-12-05 The two volume set CCIS 243 and CCIS 244 constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications ICICA 2010 held in Qinhuangdao China in October 2011 The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions They are organized in topical sections on computational statistics social networking and computing evolutionary computing and applications information education and application internet and web computing scientific and engineering computing system simulation computing bio inspired

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