Sl.No. E-588 SUBJECT CODE: 45117304

VINAYAKA MISSIONS RESEARCH FOUNDATION
(Deemed to be University)
M.TECH -DEGREE EXAMINATIONS- APR/MAY - 2019
INFORMATION TECHNOLOGY
SECOND SEMESTER
ELECTIVE - SOFTWARE QUALITY ASSURANCE

(Candidates admitted under 2017 Regulations-CBCS)

Time : Three Hours Maximum Marks:100 Marks

Answer **ALL** questions

Part-A (10 x 2 =20 Marks)

1 How the software quality assurance can be categorized?

2 List out factors affecting intensity of quality assurance.

3 Differentiate correctness and reliability.

4 What is the use of static code analysis tools in static testing?

5 Define white box testing.

6 Write the need of reporting.

7 Give the IEEE definition of software quality.

8 Define software change control.

9 Define validation.

10 Write the scope of quality management standards.

PART-B (5 x 16 = 80)

11 a. Explain in details about the classification of software quality requirements into software quality factors.

OR

b. Explain about software project life cycle component.

12 a. Explain in detail about the finite state model with graph and tabular representation and use of finite state machine.

OR

b. Write the short notes on following:
i. Combinatorial designs. ii. Fault model.

13 a. Why unit testing is important? Explain the concept of unit testing in details.

OR

b. Explain the test coverage criteria based on data flow mechanisms.

14 a. Explain in detail about the software maintenance quality and its need.

OR

b. Explain in detail about configuration management.

15 a. Describe the classical and extended cost model used for software quality management.

OR

b. Explain the ISO-9001 and ISO 9000-3.

****

Sl.No.E 515 SUBJECT CODE: 45117305

VINAYAKA MISSIONS RESEARCH FOUNDATION
(Deemed to be University)
M.TECH -DEGREE EXAMINATIONS- APR/MAY - 2019
INFORMATION TECHNOLOGY
THIRD SEMESTER
ELECTIVE - SOFTWARE PROJECT MANAGEMENT

(Candidates admitted under 2017 Regulations-CBCS)

Time : Three Hours Maximum Marks:100 Marks

Answer **ALL** questions

Part-A (10 x 2 =20 Marks)

1 List out the abstraction of big league model.

2 What is a product?

3 Why is the process important?

4 What is inspection and control?

5 What is a metrics roadmap?

6 What is a SCM?

7 What is team formation?

8 Why do work breakdown structure?

9 List out the four dimensions of requirement gathering.

10 What are the two teams in resource model?

PART-B (5 x 16 = 80)

11 a. Explain in detail about alpha and beta phase

OR

b. Explain in detail about RAD model.

12 a. Explain in detail about process important.

OR

b. Summarize the process model.

13 a. Summarize the steps that constitute SCM.

OR

b. Explain in details about tools and automation in SCM.

14 a. Write a short note on : i) Management reporting ii) Involvement of infrastructure groups.

OR

(P.T.O)

b. Summarize the software project management plan.

15 a. Define testing and its types in detail.

OR

b. Summarize the challenges in building global teams.

****