QUESTION 2016

GROUP – A
(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following:

i) The four icons used in building DFDs are
   ✓a) flow, process, source / destination, store
   b) flow, source, store, process
   c) flow, process, source, store
   d) source, process, destination, store

ii) White Box testing is also known as
   a) procedure testing   b) performance testing   c) structural testing   ✓d) all of these

iii) Data Dictionary keeps details of the contents of
   a) data flow   b) data store   ✓c) both (a) and (b)   d) neither (a) and (b)

iv) Which one is not a strategy for design?
   a) bottom up design   b) top down design   c) embedded design   ✓d) hybrid design

v) Alpha testing is done by
   a) programmer   b) user   ✓c) both (a) and (b)   d) none of these

vi) A system that does not interact with external environment is called
   ✓a) closed system   b) logical system   c) open system   d) hierarchical system

vii) The most important feature of Spiral model is
   a) quality management   b) maintenance   ✓c) risk assessment   d) none of these

viii) Real time system is
   a) distributing system   ✓b) operating system   c) maintaining system   d) requirement system

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ix) In the analysis and presentation of logic, which of the following techniques will ensure that all the combinations of conditions have been considered?

a) HIPO chart   ✓b) decision table   c) pseudo code   d) DFD

x) Documentation package includes

a) flowcharts   b) test brochures   c) cover letters   ✓d) all of these

GROUP – B
(Short Answer Type Questions)

2. What is the difference between ISO 9001 and SEI/CMM?
See Topic: **QUALITY & RISK MANAGEMENT TOOLS**, Long Answer Type Question No. 2.

3. What are the different types of risks? Briefly explain each of them.
See Topic: **QUALITY & RISK MANAGEMENT TOOLS**, Short Answer Type Question No. 8.

4. What is the difference between validation and verification?
See Topic: **S/W PROJECT LIFE CYCLE**, Short Answer Type Question No. 4.

5. What is SPMP? Why is it essential in software engineering?
See Topic: **PROJECT MANAGEMENT TOOLS & PLANNING**, Short Answer Type Question No. 6.

6. What is 4Ps of software project management?
See Topic: **PROJECT MANAGEMENT TOOLS & PLANNING**, Short Answer Type Question No. 9.

GROUP – C
(Long Answer Type Questions)

7. What do you mean by software quality? Briefly describe McCalls' quality factors? What is SQA? Briefly describe it.
1st part: See Topic: **QUALITY AND RISK MANAGEMENT**, Long Answer Type Question No. 3.
2nd part: See Topic: **QUALITY AND RISK MANAGEMENT**, Short Answer Type Question No. 1.
3rd part: See Topic: **QUALITY AND RISK MANAGEMENT**, Long Answer Type Question No. 4(b).

8. Assume that the size of an organic type software product has been estimated to be 32,000 lines of source code. Assume that the average salary of software engineers be Rs. 15,000/- per month. Determine the effort required to develop the software product and the nominal development time.
See Topic: **TESTING**, Short Answer Type Question No. 10.

9. Define stakeholder. Write down the reasons of failure of waterfall model? What are the drawbacks of RAD model?
1st part: See Topic: **PROJECT MANAGEMENT TOOLS & PLANNING**, Short Answer Type Question No. 1.
2nd part: See Topic: **S/W PROJECT LIFE CYCLE**, Long Answer Type Question No. 1.
3rd part: See Topic: **S/W PROJECT LIFE CYCLE**, Long Answer Type Question No. 8.

10. List the process maturity model of CMM. What is the difference between cohesion and coupling? What is the need of modularity?
1st part: See Topic: **QUALITY AND RISK MANAGEMENT**, Short Answer Type Question No. 2(a).
2nd & 3rd part: See Topic: **QUALITY AND RISK MANAGEMENT**, Long Answer Type Question No. 10.

11. Write short notes on the following:
a) Static testing tools
b) CASE tools
c) 4GT
d) SCM
e) CRC modeling.

a) See Topic: TESTING, Long Answer Type Question No. 11(e).
b) See Topic: PROJECT MANAGEMENT TOOLS & PLANNING, Long Answer Type Question No. 10(g).
c) See Topic: PROJECT MANAGEMENT TOOLS & PLANNING, Long Answer Type Question No. 10(h).
d) See Topic: QUALITY AND RISK MANAGEMENT, Long Answer Type Question No. 11(j).
e) See Topic: QUALITY AND RISK MANAGEMENT, Long Answer Type Question No. 11(k).