Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous College Affiliated to University of Mumbai)

QUIZ 2 (04-Mar-2021)

Max. Marks : 15(1Mark-Submit on Time) **Duration: 15 Minutes**
Class : TE Computer **Semester: VI**
Course Code : CE 63 **Branch : Computer Engineering**
Name of the Course: Software Engineering

Instructions:
(1) All Questions are Compulsory

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UID: 2019230069
52
Batch C

Question No.		Max. Marks	CO
1)	Changing requirements fall in which of the following category of risk? a)Technical risk b)Development environment **c)Project risk** d)Business risk	**1**	CO3
2)	Factors that affect the consequence of a risk are **a)Nature of the risk** **b)Scope of risk** **c)Timing of risk** d)None of the above	**1**	CO3
3)	According to Halstead, if level of language is higher, **a)Program development takes less effort** b)Program development takes more effort c)Development takes same effort d)None of the above	**1**	CO2
4)	Initial estimate of a project is 100KLOC.Team members have average experience on similar project.Find the effort required for the project.	**1**	CO2

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	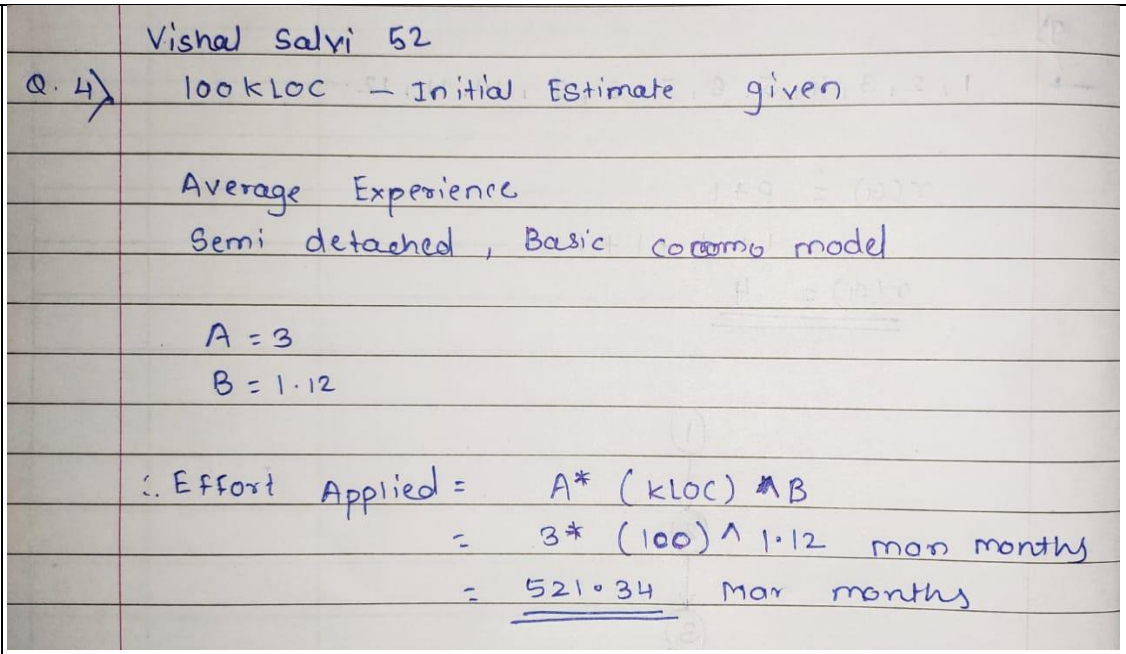		
5)	Which of the following model used for a project where the requirements are stabilized and basic architecture is in place a)Application composition model **b)Early design stage model** c)Post architecture model	**1**	CO2
6)	Give 2 constraints in review meeting in FTR **1) The duration of the review meeting should be less than two hours. Given these constraints, it should be obvious that an FTR focuses on a specific and small part of the overall software.** **2) Review meeting between 3 or 4 people.** 3) **Advance preparation should occur but it should be very short that at the most 2 hours of work for each one.**	**1**	CO4

7)	Which of the following cannot be identified during code review? a) Formal and actual parameter mismatch b) Is memory freed after it is no longer required **c) Non conformance to software requirements** d)Are all variables initialized before they are used	**1**	CO4
8)	Discuss a scenario where program is correct but not reliable **Yes. A program may produce the correct answer given valid inputs, but a lot of the time we have to check against bad data or wrong options which might induce undefined behavior in the computational part of the program.** **For example - a program that divides.** **A correct program is the one that divides two numbers and outputs the right answer.** **A reliable program is the one that also handles the divide by zero possibility preventing the program from producing unwanted outputs.**	**1**	CO4
9)	Draw graph and use the no. of nodes and edges to calculate cyclomatic complexity of following program given at the end	**2**	CO4

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	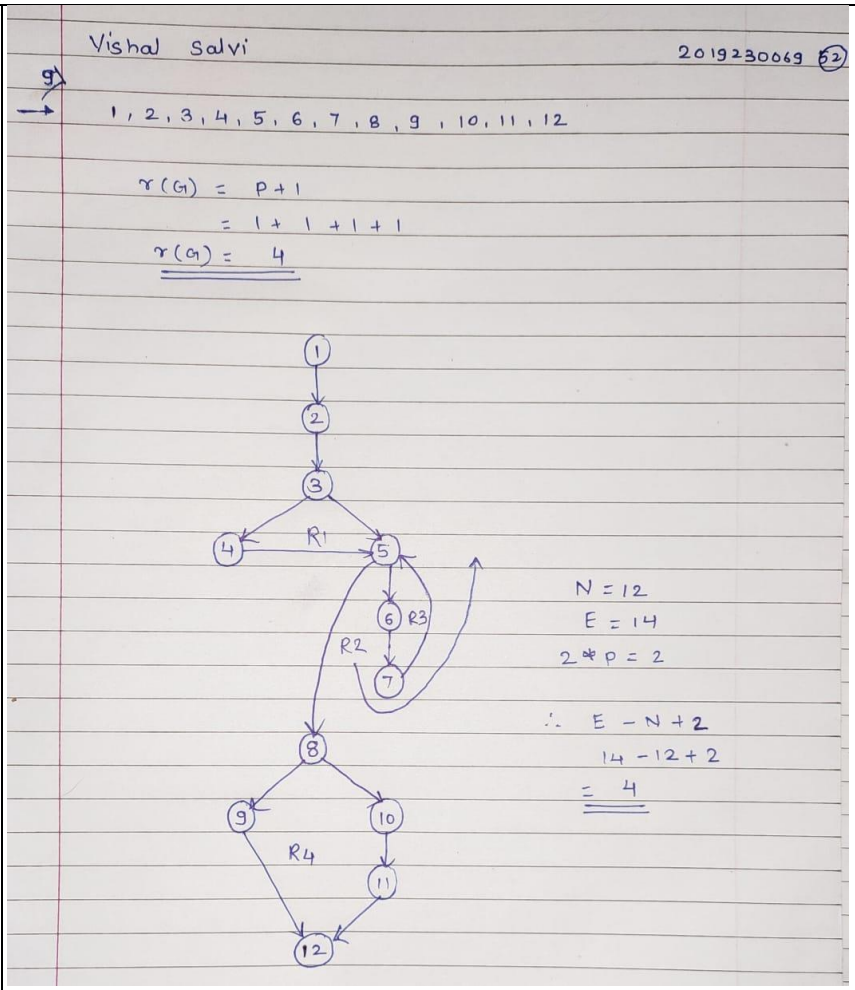		
10)	Match the following A. Ambiguous requirement B. Lack of communication in team C. No proper training D. Change in government rule **1.** Development environment	4	CO3

	2. Product risk **3.** Business risk **4.** Operational risk **Ans:** **A - 2** **B - 1** **C - 4** **D - 3**		

Program-*X*:

```
sumcal(int maxint, int value)
{
    int result=0, i=0;
    if (value <0)
    {
      value = -value;
    }
    while((i<value) AND (result
<= maxint))
    {
       i=i+1;
      result = result + 1;
    }
    if(result <= maxint)
    {
       printf(result);
    }
    else
    {
      printf("large");
    }
    printf("end of program");
}
```