

- N.B. :** (1) Question No. 1 is compulsory.  
(2) Answer any four questions out of remaining six questions.

- Q. 1. A) Who should define the acceptance quality attribute criteria of a test project?  
Justify your answer and give some Acceptance criteria. 5
- B) Compare McCall's quality model with ISO 9126 quality model. 5
- C) Explain Test case Design effectiveness. 5
- D) Explain different types of interface errors. 5
- Q. 2. A) Draw data flow graph for below given routine. 10
- ```
/* pow(m,n) computes m to the power of n */  
void pow(int m, n)  
{  
    float q;  
    int p;  
    if(n<0)  
        p=0-n;  
    else  
        p=n;  
    q=1.0;  
    while(p !=0)  
    {  
        q=q*m;  
        p=p-1;  
    }  
    if(n<0)  
        q=1.0/q  
    printf("%f", q)  
}
```
- B) Explain Dynamic unit testing. 10
- Q. 3. A) Briefly explain McCall's Quality Factors and Criteria. 10
- B) What are the objectives of Acceptance Testing? Explain different types of Acceptance Testing. 10
- Q. 4. A) Explain in detail Evaluation and Selection of Test Automation Tools. 10
- B) Explain different metrics used in system testing. 10

- Q.5. A) Explain boundary value analysis with the help of suitable example. 10  
 B) Discuss the advantage and disadvantage of integration testing. 5  
 C) Explain scalability testing with example. 5

- Q. 6. A) Explain the following terms 10  
 a)Verification b) Validation c)Error d)Fault e)Defect  
 B) Draw the Control Flow Graph and Show coverage criteria for given code. 10

```

Public static double ReturnAverage(int value[ ], int AS, int MIN, int MAX)
{
    int i , ti, tv, sum;
    double av;
    i=0; ti=0; tv=0; sum=0;
    while(ti<AS && value[i] != -999)
    {
        ti++;
        if(value[i] >= MIN && value[i] <= MAX)
        {
            tv++;
            sum = sum + value[i];
        }
        i++;
    }
    if(tv>0)
        av = (double) sum / tv,
    else
        av = (double) -999;
    return(av);
}

```

- Q.7. A) Explain test design preparedness matrix. 5  
 B) Differentiate Black Box and White Box testing. 5  
 C) Explain load testing and stress testing. 5  
 D) Explain different views of software quality. 5