**CH NO 3 (INTEGRATION) NAME :………………………**

**EX 3.1 , 3.2 ROLL.NO: ……………**

**Q.NO.1 FILL THE BUBBLES ACCORDING TO FOLLOWING QUESTIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SR.NO** | **STATEMENT** | **A** | **B** | **C** | **D** |
| **1** | ∫ | ln|x|+c | ln|x+1|+c | 1+ln|x|+c | x-ln|x|+c |
| **2** | ∫ (sec2x-tan2x) dx | 1 | c | X | None |
| **3** | f(x+&x)= | f(x)+f’(x) | f’(x) | f(&x)+ f(x) | f(x)+f’(x)dx |
| **4** | Given that f(x)=x2 when x=2 and dx=0.01 then dy= | 0.4 | 0.2 | 0.02 | 0.04 |
| **5** | -∫tanxdx | sec2x+c | -ln|secx|+c | -ln|cosx|+c | ln|secx|+c |
| **6** | ∫dx | x | 1 | 0 | None |
| **7** | ∫0dx | 1 | x | 0 | c |
| **8** | ∫ | -2cosx+c | 2sinx+c | tanx +c | cosx+c |
| **9** | ∫ | +c | +c |  | +c |
| **10** | ꭍ secxdx | secxtanx+c | tan2x+c | ln|secx+tanx|+c | None |
| **11** | ꭍ2xdx | 2xlna+c | 2x+c | +c | +c |
| **12** | ꭍ | lncotx+c | -lncotx+c | (cosec2x)2+c | none |
| **13** | ………… is the inverse process of differentiation | Linear programming | Integration | Limit | None |
| **14** | ꭍ-3x-4dx | x-3+c | 0 | 1 | none |
| **15** | ꭍ(x2+ex)dx | ex++c | +c | exx2+c | none |

**Q. NO .2 GIVE SHORT ANSWERS (24)**

|  |  |  |  |
| --- | --- | --- | --- |
| **1** | Using differential to find of xy+x=4 | **7** | Evaluate |
| **2** | Using differential to find the value of (31)1/5 | **8** | Evaluate |
| **3** | Evaluate | **9** | Evaluate |
| **4** | Evaluate | **10** | Evaluate |
| **5** | Evaluate | **11** | Evaluate |
| **6** | Evaluate | **12** | Evaluate |