

000000EXCELL FILE TEMPLATE  
for  
2019/1 TMA UPLOAD

| SN | CRSCODE | QUESTION                                                                                                      |
|----|---------|---------------------------------------------------------------------------------------------------------------|
| 1  | MTH305  | The value of the integral $\int_c \frac{z^2+1}{(z+1)(z-1)^2} dz$ is                                           |
| 2  | MTH305  | If $f(z) = \frac{z^2}{(z-1)^2(z+2)}$ , the Res. $f(-2)$ is                                                    |
| 3  | MTH305  | The fixed points of the mapping $w = \frac{5z+4}{z+5}$ are                                                    |
| 4  | MTH305  | The fixed points of the mapping $f(z) = \frac{(3iz+13)}{(z-3i)}$ are                                          |
| 5  | MTH305  | Prove that $\lim_{z \rightarrow 1-i} \frac{z^2+4z+3}{z+1}$ is equal to _____                                  |
| 6  | MTH305  | A function can be differentiable at a certain point but _____                                                 |
| 7  | MTH305  | The value of the integral $\int_c \frac{z+1}{z^3-2z} dz$ is                                                   |
| 8  | MTH305  | If the limit of $\frac{\Delta w}{\Delta z}$ exists when $z \rightarrow z_0$ , then $f(z)$ is said to be _____ |
| 9  | MTH305  | The term holomorphic is also known as _____                                                                   |
| 10 | MTH305  | A closed curve which does not intersect itself anywhere is called a _____                                     |

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| OPTION A         | OPTION B           | OPTION C      | OPTION D      | ANS | TMANO |
|------------------|--------------------|---------------|---------------|-----|-------|
| $\pi i$          | $0$                | $2\pi i$      | $4\pi i$      | D   | TMA3  |
| $\frac{5}{4}$    | $\frac{4}{5}$      | $\frac{1}{4}$ | $\frac{3}{5}$ | B   | TMA3  |
| $\frac{-4}{2,2}$ |                    | $(-2,-2)$     | $(2,-2)$      | D   | TMA3  |
| $3i+2$           | $3+2i$             | $2+3i$        | $(-2\pm 3i)$  | A   | TMA3  |
| $(4-i)$          | $(i-4)$            | $\pi i$       | $\pi i-1$     | A   | TMA3  |
| nowhere          | dense              | everywhere    | elsewhere     | A   | TMA3  |
| $2\pi i$         | $-\frac{2}{\pi i}$ | $\pi i$       | $\pi i-i$     | D   | TMA3  |
| $\Delta z =$     | $\Delta z =$       | $\Delta w =$  | $\Delta w =$  | B   | TMA3  |
| Continuity       | analyticity        | functionalit  | singularity   | B   | TMA3  |
| harmonic cl      | multiply co        | simple clos   | simply oper   | C   | TMA3  |