

000000EXCELL FILE TEMPLATE
for
2019/1 TMA UPLOAD

SN	CRSCODE	QUESTION	OPTION A	OPTION B	OPTION C	OPTION D
1	MTH382	The gamma function is defined by $\Gamma(x) = \int_0^{\infty} t^{x-1} e^{-t} dt$, evaluate $\Gamma(x+1)$	$\frac{x}{\Gamma(x)}$	$\frac{\Gamma(x)}{\Gamma(x+1)}$	$\frac{\Gamma(x+1)}{\Gamma(x)}$	$\frac{1}{\Gamma(x)}$
2	MTH382	Evaluate $\Gamma(5)$	12	25	6	24
3	MTH382	Evaluate $\frac{\Gamma(-\frac{1}{3})}{\Gamma(\frac{2}{3})}$	$\frac{\frac{1}{4}\pi}{\frac{1}{4}\pi}$	$\frac{\frac{4}{3}\pi}{\frac{1}{4}\pi}$	$\frac{\frac{1}{3}\pi}{\frac{1}{4}\pi}$	$\frac{\frac{1}{2}\pi}{\frac{1}{4}\pi}$
4	MTH382	The Beta function of (m,n) is defined as $\int_0^1 x^{m-1}(1-x)^{n-1} dx$	$\int_0^1 x^{m-1}(1-x)^{n-1} dx$	$\int_0^1 x^{m-1}(x)^{n-1} dx$	$\int_0^1 x^{m-1}(p)^{n-1} dx$	$\int_0^1 x^{m-1}(1-t)^{n-1} dx$
5	MTH382	Evaluate $\frac{\Gamma(3)\Gamma(\frac{5}{2})}{\Gamma(5.5)}$	$\frac{16}{316}$	$\frac{16}{110}$	$\frac{6}{23}$	$\frac{7}{10}$
6	MTH382	Use the Gamma function to evaluate $\int_0^1 x^4(1-x)^3 dx$	$\frac{2}{3}$	$\frac{1}{280}$	$\frac{1}{10}$	$\frac{3}{10}$
7	MTH382	Use the result in question (4) to evaluate $\beta(4,3)$	$\frac{1}{60}$	$\frac{1}{40}$	$\frac{1}{50}$	$\frac{1}{20}$
8	MTH382	Solve the differential equation $y'' - 3y' + 2y = 0$	$y(x) = c_1 e^{x} + c_2 e^{2x}$	$y(x) = c_1 e^{2x} + c_2 e^{2x}$	$y(x) = c_1 e^{x} + c_2 e^{-x}$	$y(x) = c_1 e^{2x} + c_2 e^{3x}$
9	MTH382	Solve the initial value problem $y'' + 3y' = 0$; $y(0) = 3, y'(0) = 6$	$P_n(x) = \frac{1}{2^n n!} \frac{d^n}{dx^n} \left((x^2 + 1)^2 \right)$	$y = 2 + 2e^{-3x}$	$y = 5 - 2e^{-3x}$	$y = -e^{3x} + 2e^x$

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10	MTH382	Solve the initial value problem \ $(y'' - 2y') + y = 0$; $y(1) = y'(1) = 0$	$y(0) = 3$	$y(0) = 1$	$y(0) = 2$	$y(0) = 0$
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ANS	TMANO
A	TMA2
D	TMA2
B	TMA2
A	TMA2
D	TMA2
C	TMA2
A	TMA2
A	TMA2
C	TMA2

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D	TMA2

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