

TRIBHUVAN UNIVERSITY
Faculty of Humanities & Social Sciences

OFFICE OF THE DEAN

Mathematics-II

TU QUESTIONS-ANSWERS 2018

Bachelor in Computer Applications
Course Title: Mathematics II
Code No.: CAMT 154
Semester: Second

Full Marks: 60
Pass Marks: 24
Time: 3 hrs.

Candidates are required to answer the questions in their own words as far as possible.
The figures in the margin indicate full marks.

Group 'A'

Attempt all the questions:

1×10 = 10

Circle (O) the correct answer.

1. For all rational values of n , $\lim_{x \rightarrow a} \frac{x^n - a^n}{x - a}$ is equal to
 a. na^{n-1} b. $\frac{a^{n+1}}{n+1}$ c. na^{n+1} d. na^{n+2}
2. If $\lim_{x \rightarrow a^+} f(x) = \lim_{x \rightarrow a^-} f(x)$ then $f(x)$ is said to be
 a. removable discontinuity b. ordinary discontinuity
 c. infinite discontinuity d. finite discontinuity
3. Derivative of $\tan^{-1}x$ is equal to
 a. $\frac{1}{\sqrt{1-x^2}}$ b. $\frac{-1}{1+x^2}$ c. $\frac{1}{1+x^2}$ d. $\frac{-1}{x\sqrt{1^2-1}}$
4. The value of $\lim_{n \rightarrow 0} \frac{e^n - 1}{x}$ is equal to,
 a. e^x b. 1 c. 0 d. -1
5. The differential equation: $\left(\frac{d^2y}{dx^2}\right)^2 + 5\left(\frac{dy}{dx}\right)^2 + 2y = 0$ is known as
 a. Second degree second order b. Second degree first order
 c. First degree second order d. First order second degree
6. One important condition to satisfy Rolle's Theorem by a function $f(x)$ in $[a, b]$ is
 a. $f(a) > f(b)$ b. $f(a) < f(b)$ c. $f(a) = f(b)$ d. $f(a) = f(b) \neq 0$
7. Formula for the composite trapezoidal rule is
 a. $\frac{h}{2}[(y_0 + y_n) + 2(y_1 + y_2 + y_3 + \dots + y_{n-1})]$
 b. $\frac{h}{2}[(y_0 + y_n) + 4(y_1 + y_2 + \dots + y_{n-1})]$
 c. $\frac{h}{3}[(y_0 + y_n) + 3(y_1 + y_2 + \dots + y_{n-1})]$
 d. $\frac{3h}{8}[(y_0 + y_n) + 3(y_1 + y_2 + y_3 + \dots + y_{n-1})]$

Bca 2nd Sem Maths Question Paper

**Dr. Basant Prakash Dwivedi, Dr. Belal
Usmani**

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