

Jharkhand University of Technology, Ranchi**1st Semester B.Tech. Examination, 2021****Subject : Mathematics-I****Subject Code : BSC-103****Time Allowed : 3 Hours****Full Marks : 70****Pass Marks : 21**

*Candidates are required to give the answers in their own words
as far as practicable.*

*Question No. 1 is compulsory and
answer any four from the rest.*

1. (i) The value of $D^n(ax + b)^n$ is

(a) na^n

(b) $n! a^n$

(c) nab^n

(d) $n! ab^n$

(ii) If $f(x, y) = c$, then $\frac{dy}{dx}$ is

(a) $\frac{\delta f}{\delta x}$

(b) $\frac{\delta f}{\delta y}$

(c) $\frac{\delta f / \delta x}{\delta f / \delta y}$

(d) $-\frac{\delta f / \delta x}{\delta f / \delta y}$

(iii) The value of $\Gamma\left(\frac{1}{2}\right)$ is

(a) 2π

(b) π

(c) $\sqrt{\pi}$

(d) $\frac{\pi}{2}$

(iv) The set $\{(1, -2, 6), (5, -10, 30)\}$ is

(a) linearly dependent

(b) linearly independent

(c) basis

(d) None of these

(v) If A is 3×3 matrix and its rank is 2 then nullity of matrix A will be

(a) 2

(b) 0

(c) 3

(d) 1

(vi) For which value of X will the matrix $\begin{bmatrix} 8 & X & 0 \\ 4 & 0 & 2 \\ 12 & 6 & 0 \end{bmatrix}$ become singular?

(a) 4

(b) 6

(c) 8

(d) 12

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