

SAMPLE TEST PAPER (FOR BE and BSc CANDIDATES)

SECTION-I ENGLISH

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|---------------------|----------------------------|
| (A) GRAMMAR | (10 minutes, 20 Questions) |
| (B) PASSAGE READING | (18 minutes, 20 Questions) |
| (C) ESSAY WRITING | (20 minutes) |

GRAMMAR

Consequently, Phillip sailed northward in search of (1) _____ (**the, a, an**) better location, which was discovered quickly. After they (2) _____ (**had unloaded, unload, were loading**) the people and supplies from the ships, Phillip claimed the entire coast for Britain.

PASSAGE READING

Two pages of text to be read in 12 minutes followed by twenty questions to be answered

SECTION-II MATHEMATICS

The foci of the hyperbola $\frac{y^2}{9} - \frac{x^2}{4} = 1$ lie on the line:
 a) $x = 0$ b) $y = 0$ c) $x = 3$ d) $y = 4$

$\lim_{x \rightarrow 0} (1+x^2)^{\frac{1}{x}}$ is equal to:
 a) 0 b) e c) -1 d) 1

50. If $y = e^{-x}$, then the 4th derivative $y^{(iv)}$ at $x = 1$ is:
 a) e b) e^{-x} c) e^{-1} d) e^x

SECTION - III - PHYSICS

The dimensions of power are:

- | | |
|-------------------------------------|--------------------------------------|
| (a) ML ² T ⁻² | (b) ML ² T ² |
| (c) ML ² T ⁻¹ | (d) ML ⁻¹ T ⁻¹ |

The special theory of relativity was published in 1950 by:

- | | |
|--------------|-----------------|
| (a) Lorentz | (b) Schrodinger |
| (c) Einstein | (d) Max Plank |

One inch is equal to:

- | | |
|--------------|-------------|
| (a) 0.254 cm | (b) 2.54 cm |
| (c) 2.45 cm | (d) 2.98 cm |