

8. a) Prove that $\text{curl}(r^n \vec{r}) = \vec{0}$

7

सिद्ध कीजिए कि $\text{curl}(r^n \vec{r}) = \vec{0}$

b) Write short note on:

7

i) Cauchy Riemann equations

ii) Stokes theorem

संक्षिप्त नोट लिखें।

i) कॉची रीमैन समीकरण

ii) स्टोक्स प्रमेय

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Roll No _____

BT-202 (GS)

B.Tech., I & II Semester

Examination, December 2023

Grading System (GS)

Mathematics - II

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

किन्हीं पाँच प्रश्नों को हल कीजिये।

ii) All questions carry equal marks.

सभी प्रश्नों के अंक समान हैं।

iii) In case of any doubt or dispute the English version question should be treated as final.

यदि किसी भी प्रकार के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाषा के प्रश्न को अंतिम माना जायेगा।

1. a) Solve $(1 + y^2)dx = (\tan^{-1} y - x)dy$ using Leibnitz linear method. 7

लीबनिट्स रैडिकल विधि का उपयोग करके

$(1 + y^2)dx = (\tan^{-1} y - x)dy$ को हल करें।

b) Solve $(e^x + 1)\cos x dx + e^x \sin x dy = 0$. 7

$(e^x + 1)\cos x dx + e^x \sin x dy = 0$ को हल करें।

2. a) Solve $(D^2 - 4D + 3)y = \cos 2x$. 7

$(D^2 - 4D + 3)y = \cos 2x$ को हल करें।

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H K Dass



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