

[Join group: T.me/NOUNSTUDENTSFORUM](#)

[CLICK TO DOWNLOAD MORE TMA PQ](#)

PHY461

=====

1. In vector calculus, Stoke's theorem relates

line-integral to volume integral

surface integral to volume integral

scalar product integral to norm

--->> line integral to surface integral

2. Arrange the following electrode configurations in the ascending order of their depth of investigationnn(P) Dipole-Dipolen(Q) Schlumbergern(R) Wennern(S) Pole-Polen

R < S < Q < P

P < Q < S < R

--->> R < Q < P < S

R < Q < S < P

3. The heat flow through a unit area of the Earth's surface is given by the product of

--->> vertical thermal gradient and thermal conductivity B horizontal thermal gradient and thermal conductivity

horizontal thermal gradient and thermal conductivity

vertical thermal gradient and thermal diffusivity

horizontal thermal gradient and thermal diffusivity

4. The Fourier transform and integral of the Dirac delta function respectively are

--->> 1 and 1

zero and zero

zero and 1

1 and infinity

5. Which one of the following geophysical methods is most suitable for exploration of

Whatsapp: 08089722160 or click here for TMA assistance

Practice E-exams & Chat with course mates on noungeeks.net

Join group: T.me/NOUNSTUDENTSFORUM

CLICK TO DOWNLOAD MORE TMA PQ

Seismic

---> Magnetotellurics

DC resistivity

Airborne EM

6. The radial dependence of the solution of the Laplace equation in cylindrical coordinates is expressed in terms of

---> bessel function

Legendre polynomial

Exponential function

Hermite polynomial

7. Which one of the following transforms relates the real and imaginary components of harmonic electromagnetic (EM) field?

Fourier transform

Laplace transform

---> Hilbert transform

Wavelet transform

8. For an electrostatic field, the Maxwell's equations reduce to

Wavv equation

diffusion equation

helmholts equation

---> Poisson equation

9. Which one of the following functions is used as a source-term to obtain the Green's function of a boundary value problem?

Heaviside unit step function

Exponential function

Whatsapp: 08089722160 or click here for TMA assistance

Practice E-exams & Chat with course mates on noungeeks.net

Join group: T.me/NOUNSTUDENTSFORUM

CLICK TO DOWNLOAD MORE TMA PQ

--->> Dirac delta function

10. In general, geophysical inverse problems dealing with real data obtained from field measurements are

--->> line-integral to volume integral

surface integral to volume integral

vertical thermal gradient and thermal diffusivity

horizontal thermal gradient and thermal diffusivity

Whatsapp: 08089722160 or click here for TMA assistance

Practice E-exams & Chat with course mates on noungeeks.net