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GOVT. OF NCT OF DELHI: DIRECTORATE OF EDUCATION
EXAMINATION BRANCH
OLD SECRETARIAT, DELHI-110054

Common Pre-Board School Examination 2019-20

DATE – SHEET

Morning/General Shift Schools	Evening Shift Schools
Reporting Time for Students – 09:00 a.m.	Reporting Time for Students – 01:30 p.m.
Commencement of Exam- 09:30 a.m. to12:30 p.m.	Commencement of Exam- 02:00 p.m.to 05:00 p.m.

DATE	DAY	Class X	Class XII
16 th Dec. 2019	Monday	*****	Physics/ Pol. Science
17 th Dec. 2019	Tuesday	Natural Science	Accountancy/ Sanskrit Core
18 th Dec. 2019	Wednesday	*****	Home. Science/ Engg. Graphics
19 th Dec. 2019	Thursday	English (Lang&Lit)	Geography/ Chemistry
20 th Dec. 2019	Friday	*****	Hindi (Elective)
21 st Dec. 2019	Saturday	Sanskrit/ Urdu-B/ Punjabi	B. Study / Biology
23 rd Dec. 2019	Monday	Urdu-A	Mathematics/ History
24 th Dec. 2019	Tuesday	Maths (Basic)/ Maths (Standard)	Physical Education
26 th Dec. 2019	Thursday	Social.Sc	Economics
27 th Dec. 2019	Friday	*****	English (Core)
28 th Dec. 2019	Saturday	Hindi-A/B	Sociology
30 th Dec. 2019	Monday	All NSQF Subjects	All NSQF Subjects

- NOTE:-
1. Examination of subjects not covered in this Date Sheet is to be held at School Level during the Exam.
 2. The Date Sheet is common for the Morning and Evening Shift Schools. However, the timings are different and the same have been mentioned at the top of the Date Sheet.
 3. Head of Schools may conduct the exam in any subject at their own level if it clashes with the other subjects in the date sheet. Priority must be given to the main elective subject and additional subject may be conducted at school level.
 4. The Question Papers will be distributed 15 minutes before the time given. The students would read the question paper and make plan to write the answers. However, the students will start writing the answers at the specified time.

Mukta Soni
6/11/19
(MUKTA SONI)
DDE (EXAM)

Electric Charges and Fields

- (iv) The surface that we choose for the application of Gauss's law is called the Gaussian surface. You may choose any Gaussian surface and apply Gauss's law. However, take care not to let the Gaussian surface pass through any discrete charge. This is because electric field due to a system of discrete charges is not well defined at the location of any charge. (As you go close to the charge, the field grows without any bound.) However, the Gaussian surface can pass through a continuous charge distribution.
- (v) Gauss's law is often useful towards a much easier calculation of the electrostatic field when the system has some symmetry. This is facilitated by the choice of a suitable Gaussian surface.
- (vi) Finally, Gauss's law is based on the inverse square dependence on distance contained in the Coulomb's law. Any violation of Gauss's law will indicate departure from the inverse square law.

Example 1.11 The electric field components in Fig. 1.27 are $E_x = ax^{1/2}$, $E_y = E_z = 0$, in which $a = 800 \text{ N/C m}^{1/2}$. Calculate (a) the flux through the cube, and (b) the charge within the cube. Assume that $a = 0.1 \text{ m}$.

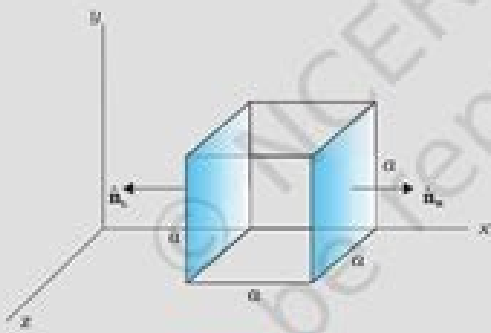


FIGURE 1.27

Solution

(a) Since the electric field has only an x component, for faces perpendicular to x direction, the angle between \mathbf{E} and $\Delta\mathbf{S}$ is $\pi/2$. Therefore, the flux $\phi = \mathbf{E} \cdot \Delta\mathbf{S}$ is separately zero for each face of the cube except the two shaded ones. Now the magnitude of the electric field at the left face is

$$E_1 = ax^{1/2} = a(a)^{1/2}$$

($x = a$ at the left face).

The magnitude of electric field at the right face is

$$E_2 = ax^{1/2} = a(2a)^{1/2}$$

($x = 2a$ at the right face).

The corresponding fluxes are

$$\phi_1 = \mathbf{E}_1 \cdot \Delta\mathbf{S} = \Delta\mathbf{S} \cdot \mathbf{E}_1 = E_1 \Delta S \cos \theta = -E_1 \Delta S, \text{ since } \theta = 180^\circ$$
$$= -E_1 a^2$$
$$\phi_2 = \mathbf{E}_2 \cdot \Delta\mathbf{S} = E_2 \Delta S \cos \theta = E_2 \Delta S, \text{ since } \theta = 0^\circ$$
$$= E_2 a^2$$

Net flux through the cube

Example 1.11

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A Reference Book for Class XII

S.L. Arora

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