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BOARD OF SECONDARY EDUCATION KARACHI
 PROGRAMME FOR THE SECONDARY SCHOOL CERTIFICATE
 PART - I (CLASS IX) ANNUAL EXAMINATION - 2019
 (IX GENERAL GROUP)
 (REGULAR & PRIVATE CANDIDATES)

DAY & DATE	TIME	SUBJECT / PAPER
MONDAY 01.04.2019	2:30 PM TO 5:30 PM	1) General Science
SATURDAY 06.04.2019	2:30 PM TO 5:30 PM	1) Sindhi Science (C) 2) Sindhi Normal Course (C) 3) Urdu Alternative in lieu of Sindhi (C) 4) English Literature (C) in lieu of Sindhi (C) 5) Geography of Pakistan Paper - I (For foreigners only)
TUESDAY 09.04.2019	2:30 PM TO 5:30 PM	1) Pakistan Studies
THURSDAY 11.04.2019	2:30 PM TO 5:30 PM	1) Mathematics
SATURDAY 13.04.2019	2:30 PM TO 5:30 PM	1) English (Compulsory) Paper-I

CONTROLLER OF EXAMINATIONS

IMPORTANT NOTES:
 *The Order of Question Paper is not guaranteed.
 *The Board shall not be responsible for any delay of Papers or/and consequent loss caused to the candidates by the entry of wrong or illegible combination of subjects.
 *If a candidate who fails to produce his/her Admit Card or gets late by more than 30 minutes for an examination shall not be allowed to enter the Examination Centre or take the examination.

Roll No. _____ (For all sessions)
 Group-I

Physics (Essay Type)
 Marks: 48 Time: 1:45 Hours

- Section-I** 2x15=30
- Write short answers of any five part from the following. 2x5=10
 - What is meant by Crest and Trough.
 - Define Wave.
 - How can we hear the sound produced by Tuning Fork?
 - Define Loudness.
 - What is meant by resonance of waves.
 - Prove that: $1\text{KWh}=3.6\text{MJ}$
 - Give two advantages of parallel circuit.
 - Define electric power.
 - Write short answers of any five part from the following. 2x5=10
 - What is meant by regular reflection of light?
 - What is refractive index of water and ice?
 - Define Volt.
 - Define electric field.
 - What is meant by lightning?
 - Define Photo Phone.
 - What is meant by secondary memory?
 - What is fax machine?
 - Write short answers of any five part from the following. 2x5=10
 - Define mutual induction.
 - What is meant by electric motor?
 - Write down the name of any two components of cathode-ray-oscilloscope(CRO).
 - Define analogue quantities.
 - Define truth table.
 - What is difference between atomic number and atomic mass number.
 - Write down four properties of alpha (α) radiations.
 - What is meant by nuclear fusion?

- Section-II** 9x2=18
- Note: Answer any two questions from the following.
- (a) State characteristics of Ohmic and non-Ohmic conductors. 04
 (b) Two point charges $q_1 = 10\mu\text{C}$ and $q_2 = 5\mu\text{C}$ are placed at a distance of 150cm. What will be the coulombs force between them? Also find the direction of the force. 04
 - (a) Explain briefly the transmission of radiowaves through space. 05
 (b) Half life of a radioactive element is 10 minutes. If the initial counts rate is 368 counts per minute. Find the time for which count rate reaches 23 counts per minute. 04

Roll No. _____ (For all sessions) Paper Code 7 4 7 3

Physics (Objective Type)
 Marks: 12 Time: 15 Minutes

- NOTE:** Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.
- One kilo byte is equal to:
 - 1024 Bytes
 - 1024 kilo bytes
 - 1024 Mega Bytes
 - 1024 Bits
 - Isotopes are atoms of same element with different:
 - Atomic mass
 - Atomic number
 - Number of protons
 - Number of electrons
 - The relation among v, f and λ of a wave is:
 - $v = f\lambda$
 - $f\lambda = v$
 - $v\lambda = f$
 - $v = \lambda/f$
 - Which form of energy is sound?
 - Electrical
 - Mechanical
 - Thermal
 - Chemical
 - An object is 14cm in front of a convex mirror. The image is 5.8cm behind the mirror. What is the focal length of the mirror?
 - 4.1 cm
 - 8.2 cm
 - 9.9 cm
 - 20 cm
 - The index of refraction of air is:
 - 1.00
 - 1.66
 - 1.33
 - 1.52
 - According to Coulomb's law, what happens to the attraction of two oppositely charged objects as their distance of separation increase?
 - increases
 - decreases
 - remains unchanged
 - cannot be determined
 - An electric current in conductor is due to the flow of:
 - Positive ions
 - Negative ions
 - Positive charges
 - Free electrons
 - The unit of electric power is:
 - Volt
 - Joule
 - Ampere
 - Watt
 - D.C motor converts:
 - Mechanical energy into electrical energy
 - Mechanical energy into chemical energy
 - Electrical energy into mechanical energy
 - Electrical energy into chemical energy
 - The process by which electrons are emitted by a hot metal surface is known as:
 - Boiling
 - Evaporation
 - Conduction
 - Thermonic emission
 - In computer terminology information means:
 - any data
 - raw data
 - processed data
 - large data

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