

## MODELPAPER

### PART-A: GENERAL ENGLISH

(Marks: 25)

1. He failed .He was very careless.  
Choose the sentence you get when you combine the given pairs of sentences.  
(1) He failed, so he was very careless. (2) He was very careless, but he failed.  
(3) He failed because his carelessness. (4) He failed because of his carelessness.
2. We attended a.....of classical music last Sunday.  
Fill in the blanks with the correct word given.  
(1) Programmers (2) consort (3) Show (4) concert
3. Identify the correct sentence given.  
(1) Will you mind closing the door? (2) Would you mind to closing the door (3) Would you mind closing the door? (4) Would you mind switch off the fan?

### PART-B: GENERAL KNOWLEDGE AND TEACHING APTITUDE

(Marks:25)

1. Who is related to Green Revolution in India?  
(1) Vargheese Kurian (2) Anand  
(3) Dr. M.S.Swaminadhan (4) Medha Patkar
2. The material used in lead pencils:  
(1) Lead (2) Graphite (3) Mica (4) Carbon
3. Children learn better when they are:  
(1) always punished for mistakes (2) praised for good performance  
(3) unsure of punishment or reward (4) left entirely to themselves

### PART-C: MATHEMATICS

(Code:1-Mathematics Methodology)

(Marks:100)

1. A regular polygon has 10 sides. Then the number of its diagonals is :  
(1) 30 (2) 35 (3) 40 (4) 45
2. The standard deviation of 1,2,3,.....,10 is  $\sigma$ . Then the standard deviation of 11,12, 13, ....., 20 is:  
(1)  $\sigma+10$  (2)  $10\sigma$  (3)  $\sigma+20$  (4)  $\sigma$
3. The number of even positive divisors of 10800 is :  
(1) 46 (2) 60 (3) 48 (4) 12

### PART-C: PHYSICAL SCIENCES

(Code:2-Physical Sciences Methodology)

(Marks: 100)

#### PHYSICS

(Marks: 50)

1. Two objects A and B are thrown vertically upwards with their initial speeds in the ratio of 2:3. The ratio of the maximum heights attained by them is  
(1) 2:3 (2) 3:2 (3) 4:9 (4) 9:4
2. If the current flows in a conductor from east to west, the direction of the magnetic field at a point above the conductor is:  
(1) towards west (2) towards east (3) towards north (4) towards south
3. Kilo watt hour is the unit of :  
(1) Electric power (2) Electric resistance (3) Electric potential (4) Electric energy

#### CHEMISTRY

(Marks :50)

1. In a colloidal system, the dispersed phase is a liquid and the dispersion medium is a solid. The colloidal system is :  
(1) A foam (2) asol (3) an emulsion (4) agel
2. Which of the following is a semiconductor?  
(1) Ag (2) Cu (3) Au (4) Si
3. The display unit of calculator contains:  
(1) gases (2) crystals (3) liquid crystals (4) liquids