

## MODEL PAPER

### 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) programmes (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. Kilowatt 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) a sol (3) an emulsion (4) a gel

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

### **PART-C : BIOLOGICAL SCIENCES**

**(Code:3-Biological Sciences Methodology) (Marks : 100)**

#### **BOTANY (Marks : 50)**

1. Which of the following is a vascular cryptogam ?

(1) Gymnosperms (2) Angiosperms (3) Bryophytes (4) Pteridophytes

2. Bacterial nuclear material does not contain :

(1) DNA (2) Circular DNA (3) Polyamines (4) Histones

3. Which of the following is incorrect about plasmids?

(1) Extrachromosomal genetic material (2) Transmitted to another bacterium during conjugation  
(3) Impart no special property to the bacterium (4) Transmitted to daughter cells by binary fission.

#### **ZOOLOGY (Marks : 50)**

1. One of the following fishes is known for discontinuous distribution :

(1) Exocoetus (2) Clarias (3) Protopterus (4) Torpedo

2. Function of parapodia :

(1) Respiration (2) Touch (3) Excretion (4) Feeding

3. The division of Nucleus alone is known as :

(1) Mitosis (2) Amitosis (3) Cytokinesis (4) Karyokinesis

### **PART-C : SOCIAL STUDIES**

**(Code:4-Social Studies Methodology) (Marks : 100)**

#### **GEOGRAPHY (Marks : 35)**

1. The continent that has occupied the largest area in the equatorial belt is :

(1) South America (2) Australia (3) Africa (4) Asia

2. Which one of the following is not a Sea ?

(1) Aral Sea (2) Black Sea (3) Yellow Sea (4) White Sea

3. Arabica is a variety of which one of the following crop ?

(1) Tea (2) Coffee (3) Cocoa (4) Sugar cane

**HISTORY (Marks : 30)**

1. The Treaty of Berlin was concluded in :

(1) 1878 (2) 1879 (3) 1880 (4) 1882

2. Who introduced New Economic Policy ?

(1) Chekov (2) Stalin (3) Gorky (4) Lenin

3. Konark Sun Temple is in :

(1) Bihar (2) Orissa (3) Karnataka (4) Kerala

**CIVICS (Marks : 15)**

1. "Contempt of Court" comes under :

(1) Union list (2) State list (3) Concurrent list (4) Exemption in Union list

2. How many member-states of the U.N.O. enjoy the 'VETO' power ?

(1) 1 (2) 2 (3) 5 (4) 10

3. Which of the following is not a device of direct democracy ?

(1) Referendum (2) Plebiscite (3) Recall (4) Reservation

**ECONOMICS (Marks : 20)**

1. Which of the following is an indirect tax ?

(1) Personal Income Tax (2) Corporate Tax (3) Wealth Tax (4) Tax on natural resources

2. Bank drafts are issued by :

(1) International Monetary Fund (2) Commercial Banks (3) Reserve Bank of India (4) Business Firms

3. Which of the following is a source of revenue in the revenue account of the budget?

(1) Subsidies (2) Market borrowings (3) Interest revenue (4) Revenue from taxes

**PART-C : ENGLISH**

**(Code:5-English Methodology) (Marks : 100)**

1. These words are always said in their strong form, in a sentence :

(1) articles (2) some conjunctions (3) adverbs (4) prepositions

2. Integration of reading and writing skills is involved in :

(1) reporting (2) reciting (3) note-taking (4) note-making

3. Toru Dutt's 'Sita' is :

(1) Lyrical (2) Elegiac (3) Melancholic (4) Very humorous