

MODEL PAPER:

PART-A: General English (Marks : 25)

1. He has been working for the company _____ January, 2005
a. during b. since c. before d. after
2. Sarojini Naidu is _____ Nightingale of India.
a. the b. an c. a d. No article required
3. The principal _____ for a walk in the school ground every day.
a. is going b. gone c. goes d. went

PART-B: General Knowledge And Teaching Aptitude (Marks: 25)

1. The name of the virus that caused Covid-19 in the early days of the pandemic is
a. SARS-CoV-2 b. SARS-Covid19-2 c. Cov-SARS-1 d. SARS-Covi-D2
2. “One class one TV Channel” programme of PM e-vidya expanded from 12 to.
a. 120 b. 200 c. 140 d. 150
3. The best way to maintain discipline in the class is to deal with the students.
a. affectionately b. strictly and friendly
c. Strictly and authoritatively d. Politely, but firmly

PART-C: Mathematics:

(Code:1-Mathematics Methodology) (Marks: 100)

1. Which one of the following equation is not in Clairaut's form
a. $y = px + p - p^2$ b. $(1 - x^2y^2) dx = ydx + xdy$
c. $(xp - y)^2 p^2 - 1$ d. $\sin p x \cos y = \cos p x \sin y + p$
2. The differential equation $x(1 + y^2)dx + y(1 + x)dy = 0$ is
a. Homogeneous equation b. Linear equation
c. Bernouli equation d. Exact equation
3. The pole of the plane $x - y + 2z - 9 = 0$ with respect to the sphere $x^2 + y^2 + z^2 - 9 = 0$ is.
a. (1,2,3) b. (2,3,-1) c. (2,1,2) d. (1,-1,2)

PART-C : Physical Sciences:

(Code:2-Physical Sciences Methodology) (Marks: 100)

Physics (Marks: 50):

1. A rod of 1m length is moving along its length with a velocity $0.6C$. Calculate its length as it is to an observer on earth? (C =Speed of light).
a. 1 m b. 8 m c. 0.8 m d. 0.1 m
2. Kepler's third law is known as :
a. Law of orbits b. Law of areas
c. Law of periods d. Law of motion
3. A tuning fork is a
a. Bar fixed at one end b. Bar fixed at both ends
c. Bar fixed at middle d. Bar free at both ends

Chemistry (Marks:50):

1. Diborane on hydrolysis gives?
a. $B_3N_3H_6$ b. BC_3 c. H_3BO_3 d. HBO_2
2. Which is an amphoteric Oxide
a. SO_2 b. B_2O_3 c. ZnO d. $N_{a2}O$
3. For one mole of a gas, the ideal gas equation is
a. $PV=RT$ b. $PV=3/2 RT$ c. $PV=1/2 RT$ d. $PV=5/2 RT$

PART-C : Biological Sciences:

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

Botany (Marks : 50):

1. Who proposed the theory of spontaneous generation of life?
a. Nageli b. Edward Jenner c. Louis Pasteur d. Robert Koch
2. Nucleic Acid present in Virus
a. DNA b. RNA c. DNA or RNA d. DNA and RNA
3. The most common method of reproduction found in bacteria is
a. Conjugation b. Endospore Formation
c. Binary fission d. Transduction

Zoology (Marks: 50):

1. A coral known as 'sea fan' is
 - a. Tubipora
 - b. Pennatula
 - c. Alcyonium
 - d. Gorgonia
2. The embryonic respiratory organ in chick is
 - a. Allantois
 - b. Chorion
 - c. Yolk sac
 - d. Amnion
3. The largest living bird is
 - a. Kiwi
 - b. Emu
 - c. Cassowary
 - d. Ostrich

PART-C: Social Studies:**(Code: 4-Social Studies Methodology) (Marks: 100)****Geography (Marks:35):**

1. Which river flows in the Chotanagpur region around the coal deposit zone?
 - a. River Son
 - b. River Damodar
 - c. River Narmada
 - d. Mahanadi
2. How many Ocean trenches are found in the world?
 - a. 11
 - b. 26
 - c. 18
 - d. 24
3. Bushmen belong to which race?
 - a. Negroid
 - b. Caucasoid
 - c. Mongoloid
 - d. Nordic

History (Marks: 30):

1. Lothal, the main port city of the Indus Valley people is in which state?
 - a. Gujarat
 - b. Maharashtra
 - c. Punjab
 - d. Rajasthan
2. Who founded Somapura Mahavihara, the famous centre for education
 - a. Devapala
 - b. Dharmapala
 - c. Harsha
 - d. Vijayasena
3. Who established the city of Jampur (AD1359)?
 - a. Iltutmish
 - b. Mahmud
 - c. Feroz Tughlaq
 - d. Razia

Civics (Marks: 15):

1. How many members of the Constituent Assembly signed the constitution?
 - a. 300
 - b. 284
 - c. 299
 - d. 301
2. Behaviouralism emphasizes
 - a. In-depth studies
 - b. Verifiable facts
 - c. Normative Studies
 - d. Norms of appropriate behavior
3. How many national parties were recognized in the first general elections in 1952?
 - a. 6
 - b. 14
 - c. 39
 - d. 8

Economics (Marks: 20):

1. The convexity of an indifference curve may be attributed to
 - a. Increasing Marginal rate of Substitution
 - b. Increasing Marginal rate of Technical Substitution
 - c. Constant Marginal rate of Substitution
 - d. Diminishing Marginal rate of Substitution
2. The market value of all the final goods and services produced in a year including net factor income from abroad is called
 - a. GNP
 - b. GDP
 - c. NNP
 - d. NDP
3. The essential function of money according to fisher's quantity theory of money is
 - a. Medium of exchange
 - b. Measure of value
 - c. Store of value
 - d. Standard of deferred payment

English (Marks: 100):

1. When was "The Shepherd's Calendar" Published?
 - a. 1578
 - b. 1579
 - c. 1580
 - d. 1581
2. Which of the following work of Sydney was published posthumously?
 - a. Astrophel and Stella
 - b. The Defence of Poesie
 - c. Arcadia
 - d. The Lady of May
3. Why did Shakespeare often use the idea of disguise in his plays?
 - a. No female actors
 - b. No highlight manliness
 - c. To suppress the characters
 - d. To display wickedness