

**Sample Questions (Outside Recruitment)**

**Paper – I**

**English**

Q1: Find out the correct meaning of idiomatic expression among the given options

To cry wolf

- A. To give false alarm
- B. To shout vehemently
- C. To turn pale
- D. To listen eagerly

Correct Answer: C

Q2: Choose the option, which is the closest antonym of given word

POLEMIC –

- A. Friendship
- B. Amity
- C. Cooperation
- D. Agreement

Correct Answer: C

**General Knowledge**

Q1: Which one of the following Prime Ministers of India has not presented the budget?

- A. Jawaharlal Nehru
- B. Morarji Desai
- C. Indira Gandhi
- D. All had presented the budget

Correct Answer: B

Q2: One of modern India's biggest schemes – Unique Identification Number has been named as -

- A. Sweekar
- B. Aadhar
- C. Alaya
- D. Parichay

Correct Answer: B

**Reasoning/ Quantitative Aptitude**

Q1: D is sister of F. M is brother of D and son of T. R is wife of T. How is F related to T?

- A. Son
- B. Daughter
- C. Son or Daughter
- D. Data inadequate

Correct Answer: C

Q2: If the ratio of two natural numbers x and y is 'a' and that of y and x is 'b', then what is the value of (a+b)?

- A. Equal to 1
- B. Lesser than 1
- C. Lesser than 2
- D. Greater than or equal to 2

Correct Answer: D

**Paper – II**

**01 Mining**

Q1: Run away switch is used in connection with

- E. Direct rope Haulage
- F. Endless Haulage
- G. Gravity Haulage
- H. Tail rope Haulage

Correct Answer: A

Q2: Side Discharge Loader is a

- A. Crawler mounted machine
- B. Tyre mounted machine
- C. Both A and B
- D. Rail mounted machine

Correct Answer: A

**02 MECHANICAL ENGINEERING**

The relation between the number of pairs ( $p$ ) forming a kinematic chain and the number of links ( $k$ ) is given by

- A.  $K = p = 1$
- B.  $K = 2p - 2$
- C.  $K = 2p - 3$
- D.  $K = 2p - 4$

Correct Answer: A

1. Hartnell governor is a

- A. Pendulum type governor
- B. Inertia type governor
- C. Spring loaded type governor
- D. Dead weight type governor

Correct Answer: C

**03 Electrical**

Q1: The Function of Shunt in an Ammeter is

- A. To bypass the current
- B. To increase the Resistance of the meter
- C. To decrease the voltage drop
- D. To increase the current in the meter coil

Correct Answer: A

Q2: In a synchronous alternator, the armature reaction is solely determined by

- A. Power factor of the load
- B. Amount of current drawn from the alternator
- C. Speed of the prime mover driving the alternator
- D. Excitation voltage

Correct Answer: A

#### 04 Civil

Q1: A first class brick immersed in water for 24 hours, should not absorb water more than

- A. 5%
- B. 10%
- C. 20%
- D. 25%

Correct Answer: C

Q2: Pelton wheel is a turbine with

- A. Axial flow
- B. Radial flow
- C. Mixed flow
- D. Tangential flow

Correct Answer: D

#### 05 Chemical Engineering

Q1: Consider the following reactions:

1. Knoevenagel condensation
2. Cannizzaro reaction
3. Benzoin condensation
4. Perkin reaction

The reactions used for the synthesis of  $\alpha,\beta$ -unsaturated carboxylic acids include

- A. 1 AND 3
- B. 1 AND 4
- C. 1, 2 AND 3
- D. 1,2,3 AND 4

Correct Answer: B

#### 06 Industrial Engineering

Q1: Zero inventory system (ZIT) is similar to the conventional

- A. Batch shop procedures
- B. Job shop or make-to-order procedure
- C. Flow shop procedures
- D. Machine shop procedures

Correct Answer: B

Q2: Panel consensus is based on the assumption that

- A. Several experts can arrive at a better forecast than one person
- B. Minimize the biases in the subjective methods
- C. The collection of information is gathered from a representative sample
- D. The forecast is done on an adhoc basis

Correct Answer: A

### 07 Environment

Q1: The BOD removal in an oxidation pond may be up to

- A. 100%
- B. 97%
- C. 94%
- D. 90%

Correct Answer: D

Q2: When Chloride is added to sewage both at the beginning as well as at the end of the treatment process, the phenomenon is called:

- A. Post chlorination
- B. Super chlorination
- C. Split chlorination
- D. None of these

Correct Answer: C

### 08 Electronics and Telecommunications

Q1: A Zenor Diode is invariably used with

- A. Forward bias
- B. Reverse bias
- C. Zero bias
- D. Either of A or C

Correct Answer: B

Q2: Which one of the following is not a semiconductor?

- A. Diamond
- B. Gallium-Arsenide
- C. Silicon
- D. Germanium

Correct Answer: A

## 09 Systems

Q1: Which one of the following is not correct?

- A. FTP – File Transfer Protocol
- B. HTTP – Hyper Text Transfer Protocol
- C. UDP – User Datagram Protocol
- D. IMAP – Internet Message Account Protocol

Correct Answer: D

Q2: Which of the following is never a part of Black Box Testing?

- A. Boundary Value Analysis
- B. Static Testing
- C. Equivalence Partitioning
- D. Specification Based Testing

Correct Answer: B

## 10 GEOLOGY

Q1: The most abundant element in the earth's crust is

- A. Sodium
- B. Potassium
- C. Oxygen
- D. Silicon

Correct Answer: C

Q2: Which of the following energy sources dose not come originally from the sun

- A. Wind
- B. Ocean thermal energy conversion
- C. Geothermal
- D. Hydroelectric

Correct Answer: C

## 11. GEOPHYSICS

Q1: Acceleration due to gravity is maximum at

- A. Earth surface near the pole
- B. Earth surface near the equator
- C. Centre of the earth
- D. London

Correct Answer: A

Q2: In Rayleigh wave the particle motion takes place

- A. Along the direction of wave propagation only
- B. At right angle to the direction of wave propagation only
- C. Transverse to the direction of wave propagation only
- D. In elliptical orbit where the amplitude of the motion decreases with depth

Correct Answer: D

## 12- MATERIALS MANAGEMENT

Q1: The MODVAT is a part of the

- A. Central Excise law
- B. Sales tax law
- C. Purchase law
- D. Value added law

Correct Answer: A

Q2: Panel consensus is based on the assumption that

- A. Several experts can arrive at a better forecast than one person
- B. Minimize the biases in the subjective methods
- C. The collection of information is gathered from a representative sample
- D. The forecast is done on an adhoc basis

Correct Answer: A

## 13 Sales & Marketing

Q1: What is one of the different marketing strategies towards Market Segmentation?

- A. Undifferentiated
- B. Differentiated
- C. Concentrated
- D. All of these

Correct Answer: D

Q2: In which pricing strategy producer set a high introductory price for their product?

- A. Penetration pricing
- B. Price skimming
- C. Single price policy
- D. None of these

Correct Answer: B

#### 14 Personnel/HR

Q1: Which one of the following is not a valid Wage Theory?

- A. The Just Wage Theory
- B. Subsistence Theory
- C. Standard of Living Theory
- D. Best Wage Theory

Correct Answer: D

Q2: Which one of the following would qualify to be a strategic HRM activity?

- A. Administer Wage & Salary Programmes
- B. Prepare Staffing Plans
- C. Determine the level & type of Performance that is crucial for firm's growth
- D. Use specific job skill training

Correct Answer: C

#### 15 Finance

Q1: Under the diminishing balance method, depreciation is calculated on

- A. The Scrap Value
- B. The Original Cost
- C. Book Value
- D. Sale Price

Correct Answer: C

Q2: A Project is not acceptable for finance if its

- A. BEP is high
- B. IRR is higher than the cost of capital
- C. NAP is positive
- D. NPV is negative

Correct Answer: D



**16. Sample Question /राजभाषा**

प्रश्न : 1. राजभाषा का अर्थ है -

- (a) राजा की भाषा
- (b) राज्य की भाषा
- (c) राष्ट्र की भाषा
- (d) सरकारी काम-काज की भाषा

प्रश्न : 2. संविधान की आठवीं अनुसूची में संप्रित कितनी भाषायें हैं ।

- (a) 18
- (b) 20
- (c) 22
- (d) 24

उत्तर :

- 1- (d)
- 2- (c)