

**QUESTION PAPER**  
**Junior Engineer(Electrical) [SHIFT - 1]**

Exam Date : 28/02/2024

Time : 03:00 PM - 05:00 PM

**Subjective questions**

**Question 1**

**Question Id : 1**

Resistance of a Conductor Depends on:-

Answer :

(A) Length, Cross Section Area, Physical Condition and temperature of conductor

(B) Only temperature

(C) Only Length

(D) Only Cross Section Area

Option Id

1001

1002

1003

1004

**Right Answer :**

Length, Cross Section Area, Physical Condition and temperature of conductor

**Right Option Id : 1001**

**Question 2**

**Question Id : 28**

Equivalent resistance of 100 resistances of 100 Ohms each connected in parallel is :-

Answer :

(A) 10000 Ohms

(B) 100 Ohms

(C) 1 Ohms

(D) 1/10,000 Ohms

Option Id

28001

28002

28003

28004

**Right Answer :**

1 Ohms

**Right Option Id : 28003**

**Question 3**

**Question Id : 29**

Cells are connected in parallel then

Answer :

(A) Current Capacity decreases

(B) Current Capacity increases

(C) Internal Resistance Increases

Option Id

29001

29002

29003

(D) Achieved Voltage Increases

29004

**Right Answer :**

Current Capacity increases

**Right Option Id : 29002**

**Question 4**

**Question Id : 30**

Unit of Inductance is

Answer :

(A) Ampere-Turn

(B) Ohm

(C) Weber per meter

(D) mH

Option Id

30001

30002

30003

30004

**Right Answer :**

mH

**Right Option Id : 30004**

**Question 5**

**Question Id : 31**

Unit of Flux Density is :-

Answer :

(A) Weber per meter square

(B) Henry per meter square

(C) Newton per meter square

(D) Ampere per meter square

Option Id

31001

31002

31003

31004

**Right Answer :**

Weber per meter square

**Right Option Id : 31001**

**Question 6**

**Question Id : 32**

Which of the following elements of electrical engineering cannot be analyzed using Ohm's law:-

Answer :

(A) Capacitors

(B) Inductors

(C) Transistors

Option Id

32001

32002

32003

(D) Resistance

32004

**Right Answer :**

Transistors

**Right Option Id : 32003**

**Question 7**

**Question Id : 33**

Which of the following is a correct representation of peak value in an AC Circuit:-

Answer :

Option Id

(A) RMS value/Peak factor

33001

(B) RMS value\*Form factor

33002

(C) RMS value/Form factor

33003

(D) RMS value\*Peak factor

33004

**Right Answer :**

RMS value\*Peak factor

**Right Option Id : 33004**

**Question 8**

**Question Id : 34**

How many cycles will an AC signal make in 2 seconds if its frequency is 100 Hz:-

Answer :

Option Id

(A) 50

34001

(B) 100

34002

(C) 150

34003

(D) 200

34004

**Right Answer :**

200

**Right Option Id : 34004**

**Question 9**

**Question Id : 35**

What kind of quantity is an Electric potential:-

Answer :

Option Id

(A) Vector quantity

35001

(B) Tensor quantity

35002

(C) Scalar quantity

35003

(D) Dimensionless quantity

**Right Answer :**

Scalar quantity

**Right Option Id : 35003**

**Question 10**

**Question Id : 36**

What is responsible for the current to flow:-

Answer :

(A) Protons

(B) Electrons

(C) Nucleus

(D) Protons and Electrons

Option Id

36001

36002

36003

36004

**Right Answer :**

Electrons

**Right Option Id : 36002**

**Question 11**

**Question Id : 37**

The r.m.s. value and mean value is the same in the case of:-

Answer :

(A) Triangular wave

(B) Sine wave

(C) Square wave

(D) Half wave rectified sine wave

Option Id

37001

37002

37003

37004

**Right Answer :**

Square wave

**Right Option Id : 37003**

**Question 12**

**Question Id : 38**

Power factor of the following circuit will be zero:-

Answer :

(A) Resistance

(B) Capacitance

(C) Inductance

(D) Both (Resistance) and (Capacitance)

Option Id

38001

38002

38003

**Right Answer :**

Both (Resistance) and (Capacitance)

**Right Option Id : 38004**

**Question 13**

**Question Id : 39**

The purpose of a parallel circuit resonance is to magnify:-

Answer :

(A) Current

(B) Voltage

(C) Power

(D) Frequency

Option Id

39001

39002

39003

39004

**Right Answer :**

Current

**Right Option Id : 39001**

**Question 14**

**Question Id : 40**

The frequency of domestic power supply in India is:-

Answer :

(A) 200 Hz

(B) 60 Hz

(C) 100Hz

(D) 50Hz

Option Id

40001

40002

40003

40004

**Right Answer :**

50Hz

**Right Option Id : 40004**

**Question 15**

**Question Id : 41**

Which of the following does not change in a transformer:-

Answer :

(A) Current

(B) Voltage

(C) Frequency

(D) All the given options

Option Id

41001

41002

41003

**Right Answer :**

Frequency

**Right Option Id : 41003**

**Question 16**

**Question Id : 42**

No-load test on a transformer is carried out to Determine

Answer :

- (A) Copper Loss
- (B) Magnetising Current
- (C) Magnetising current & Loss
- (D) Efficiency of Transformer

Option Id

42001

42002

42003

42004

**Right Answer :**

Magnetising current & Loss

**Right Option Id : 42003**

**Question 17**

**Question Id : 43**

A common method of cooling a power transformer is

Answer :

- (A) Natural air cooling
- (B) Air blast cooling
- (C) Oil cooling
- (D) Any of the given options

Option Id

43001

43002

43003

43004

**Right Answer :**

Natural air cooling

**Right Option Id : 43001**

**Question 18**

**Question Id : 44**

A Buchholz relay can be installed on:-

Answer :

- (A) Auto-transformers
- (B) Air-cooled transformers
- (C) Welding transformers
- (D) Oil cooled transformers

Option Id

44001

44002

44003

**Right Answer :**

Oil cooled transformers

**Right Option Id : 44004**

**Question 19**

**Question Id : 45**

The leakage flux in a transformer depends upon:-

Answer :

- (A) Load current
- (B) Load current and voltage
- (C) Load current, voltage and frequency
- (D) Load current, voltage, frequency and power factor

Option Id

45001

45002

45003

45004

**Right Answer :**

Load current

**Right Option Id : 45001**

**Question 20**

**Question Id : 46**

An ideal transformer will have maximum efficiency at a load such that:-

Answer :

- (A) Copper loss = iron loss
- (B) Copper loss < iron loss
- (C) Copper loss > iron loss
- (D) None of the given options

Option Id

46001

46002

46003

46004

**Right Answer :**

Copper loss = iron loss

**Right Option Id : 46001**

**Question 21**

**Question Id : 47**

Minimum voltage regulation occurs when the power factor of the load is:-

Answer :

- (A) Unity
- (B) Lagging
- (C) Leading
- (D) Zero

Option Id

47001

47002

47003

**Right Answer :**

Leading

**Right Option Id : 47002**

**Question 22**

**Question Id : 48**

In case the air gap in an induction motor is increased:-

Answer :

- (A) The magnetising current of the rotor will decrease
- (B) The power factor will decrease
- (C) Speed of motor will increase
- (D) The windage losses will increase

Option Id

48001

48002

48003

48004

**Right Answer :**

The power factor will decrease

**Right Option Id : 48002**

**Question 23**

**Question Id : 27**

The crawling in the induction motor is caused by:-

Answer :

- (A) Low voltage supply
- (B) High loads
- (C) Harmonics developed in the motor
- (D) Improper design of the machine

Option Id

27001

27002

27003

27004

**Right Answer :**

Harmonics developed in the motor

**Right Option Id : 27003**

**Question 24**

**Question Id : 25**

Blocked rotor test on induction motor is used to find out:-

Answer :

- (A) Leakage reactance
- (B) Power factor on short circuit
- (C) Short-circuit current under rated voltage
- (D) All of the given options

Option Id

25001

25002

25003

25004



**Right Answer :**

All of the given options

**Right Option Id : 25004**

**Question 25**

**Question Id : 2**

If  $N_s$  is the synchronous speed and  $s$  is the slip, then actual running speed of an induction motor will be:-

Answer :

- (A)  $N_s$
- (B)  $s \cdot N_s$
- (C)  $(1-s)N_s$
- (D)  $(N_s-l)s$

Option Id

2001

2002

2003

2004

**Right Answer :**

$(1-s)N_s$

**Right Option Id : 2003**

**Question 26**

**Question Id : 24**

Slip ring motor is preferred over squirrel cage induction motor where:-

Answer :

- (A) High starting torque is required
- (B) Load torque is heavy
- (C) Heavy pull out torque is required
- (D) All of the given options

Option Id

24001

24002

24003

24004

**Right Answer :**

High starting torque is required

**Right Option Id : 24001**

**Question 27**

**Question Id : 3**

A 3-phase 440 V, 50 Hz induction motor has 4% slip. The frequency of rotor e.m.f. will be:-

Answer :

- (A) 200 Hz
- (B) 50 Hz
- (C) 2 Hz
- (D) 0.2 Hz

Option Id

3001

3002

3003

3004

**Right Answer :**

2 Hz

**Right Option Id : 3003**

**Question 28**

**Question Id : 4**

An induction motor is:-

Answer :

(A) Self-starting with zero torque

(B) Self-starting with high torque

(C) Self-starting with low torque

(D) Non-self starting

Option Id

4001

4002

4003

4004

**Right Answer :**

Self-starting with low torque

**Right Option Id : 4003**

**Question 29**

**Question Id : 5**

A synchronous motor can be used as a synchronous capacitor when it is:-

Answer :

(A) Under-loaded

(B) Over-Loaded

(C) Under-Excited

(D) Over- Excited

Option Id

5001

5002

5003

5004

**Right Answer :**

Over- Excited

**Right Option Id : 5004**

**Question 30**

**Question Id : 6**

For V-curves for a synchronous motor the graph is drawn between:-

Answer :

(A) Field current and armature current

(B) Terminal voltage and load factor

(C) Power factor and field current

(D) Armature current and power factor

Option Id

6001

6002

6003

6004

**Right Answer :**

Field current and armature current

**Right Option Id : 6001**

**Question 31**

**Question Id : 7**

A synchronous motor can be made self starting by Providing:-

Answer :

(A) Damper winding on rotor poles

(B) Damper winding on stator

(C) Damper winding on stator as well as rotor poles

(D) None of the given options

Option Id

7001

7002

7003

7004

**Right Answer :**

Damper winding on rotor poles

**Right Option Id : 7001**

**Question 32**

**Question Id : 8**

An over excited synchronous motor is used for :-

Answer :

(A) Fluctuating loads

(B) Variable speed loads

(C) Low torque loads

(D) Power factor corrections

Option Id

8001

8002

8003

8004

**Right Answer :**

Power factor corrections

**Right Option Id : 8004**

**Question 33**

**Question Id : 9**

The speed of a synchronous motor :-

Answer :

(A) Increases as the load increases

(B) Decreases as the load decreases

(C) Always remains constant

(D) None of the given options

Option Id

9001

9002

9003

9004

**Right Answer :**

Always remains constant

**Right Option Id : 9003**

**Question 34**

**Question Id : 10**

A synchronous motor develops maximum power when load angle is:-

Answer :

(A) 45 degrees

(B) 60 degrees

(C) 90 degrees

(D) 120 degrees

Option Id

10001

10002

10003

10004

**Right Answer :**

90 degrees

**Right Option Id : 10003**

**Question 35**

**Question Id : 11**

The speed regulation of a synchronous motor is always:-

Answer :

(A) 1%

(B) 0.5%

(C) Positive

(D) Zero

Option Id

11001

11002

11003

11004

**Right Answer :**

Zero

**Right Option Id : 11004**

**Question 36**

**Question Id : 12**

The usual spans with R.C.C. poles are:-

Answer :

(A) 40—50 meters

(B) 60—100 meters

(C) 80—100 meters

(D) 300—500 meters

Option Id

12001

12002

12003

12004

**Right Answer :**

80—100 meters

**Right Option Id : 12003**

**Question 37**

**Question Id : 13**

The operating voltage of high voltage cables is up to:-

Answer :

(A) 1.1 kV

(B) 3.3 kV

(C) 6.6 kV

(D) 11 kV

Option Id

13001

13002

13003

13004

**Right Answer :**

11 kV

**Right Option Id : 13004**

**Question 38**

**Question Id : 14**

A booster is a:-

Answer :

(A) Series wound generator

(B) Shunt wound generator

(C) Synchronous generator

(D) None of the given options

Option Id

14001

14002

14003

14004

**Right Answer :**

Series wound generator

**Right Option Id : 14001**

**Question 39**

**Question Id : 15**

Transmission line insulators are made of:-

Answer :

(A) Glass

(B) Porcelain

(C) Iron

(D) P.V.C

Option Id

15001

15002

15003

15004

**Right Answer :**

P.V.C

**Right Option Id : 15004**

**Question 40**

**Question Id : 16**

A feeder, in a transmission system, feeds power to:-

Answer :

(A) Distributors

(B) Generating stations

(C) Service mains

(D) All of the given options

Option Id

16001

16002

16003

16004

**Right Answer :**

Distributors

**Right Option Id : 16001**

**Question 41**

**Question Id : 17**

Which of the following relays is used on long transmission lines ?:-

Answer :

(A) Impedance relay

(B) Mho's relay

(C) Reactance relay

(D) None of the given options

Option Id

17001

17002

17003

17004

**Right Answer :**

Mho's relay

**Right Option Id : 17002**

**Question 42**

**Question Id : 18**

For transmission of power over a distance of 200 km, the transmission voltage should be:

Answer :

(A) 132 kV

(B) 66 kV

(C) 33 kV

(D) 11 kV

Option Id

18001

18002

18003

18004

**Right Answer :**

132 kV

**Right Option Id : 18001**

**Question 43**

**Question Id : 19**

The power factor of industrial loads is generally:-

Answer :

(A) Unity

(B) Lagging

(C) Leading

(D) Zero

Option Id

19001

19002

19003

19004

**Right Answer :**

Lagging

**Right Option Id : 19002**

**Question 44**

**Question Id : 20**

Fault diverters are basically:-

Answer :

(A) Fuses

(B) Relays

(C) Fast switches

(D) Circuit breakers

Option Id

20001

20002

20003

20004

**Right Answer :**

Fast switches

**Right Option Id : 20003**

**Question 45**

**Question Id : 21**

Magnetic circuit breaker has \_\_\_\_\_ trip action:-

Answer :

(A) Delayed

(B) Instantaneous

(C) Both Delayed and Instantaneous

(D) None of the given options

Option Id

21001

21002

21003

21004

**Right Answer :**

Instantaneous

**Right Option Id : 21002**

**Question 46**

**Question Id : 22**

Directional relays are based on flow of:-

Answer :

(A) Power

(B) Current

(C) Voltage wave

(D) All of the given options

Option Id

22001

22002

22003

22004

**Right Answer :**

Power

**Right Option Id : 22001**

**Question 47**

**Question Id : 23**

H.R.C. fuses provide best protection against:-

Answer :

(A) Overload

(B) Reverse current

(C) Open-circuits

(D) Short-circuits

Option Id

23001

23002

23003

23004

**Right Answer :**

Short-circuits

**Right Option Id : 23004**

**Question 48**

**Question Id : 49**

The direction of rotation of a D.C. series motor can be changed by:-

Answer :

(A) Inter changing supply terminals

(B) Inter changing field terminals

(C) Either (Inter changing supply terminals) and (Inter changing field terminals)

(D) None of the given options

Option Id

49001

49002

49003

49004



**Right Answer :**

Inter changing field terminals

**Right Option Id : 49002**

**Question 49**

**Question Id : 26**

If a D.C. motor is connected across the A.C. supply it will:-

Answer :

(A) Run at normal speed

(B) Not run

(C) Run at lower speed

(D) Burn due to heat produced in the field winding.

Option Id

26001

26002

26003

26004

**Right Answer :**

Burn due to heat produced in the field winding.

**Right Option Id : 26004**

**Question 50**

**Question Id : 50**

In a D.C. shunt motor, speed is :-

Answer :

(A) Independent of armature current

(B) Directly proportional to the armature current

(C) Proportional to the square of the current

(D) Inversely proportional to the armature current

Option Id

50001

50002

50003

50004

**Right Answer :**

Independent of armature current

**Right Option Id : 50001**

**Question 51**

**Question Id : 51**

The armature voltage control of D.C. motor provides

Answer :

(A) Constant torque drive

(B) Constant voltage drive

(C) Constant current drive

(D) None of the given options

Option Id

51001

51002

51003

51004

**Right Answer :**

Constant torque drive

## Question 52

Question Id : 52

The plugging gives the:-

Answer :

- (A) Zero torque braking
- (B) Smallest torque braking
- (C) Highest torque braking
- (D) None of the given options

Option Id

 52001 52002 52003 52004**Right Answer :**

Highest torque braking

**Right Option Id : 52003**

## Question 53

Question Id : 53

Which motor should not be started on no-load ?:-

Answer :

- (A) Series motor
- (B) Shunt motor
- (C) Cumulatively compounded motor
- (D) Differentially compounded motor

Option Id

 53001 53002 53003 53004**Right Answer :**

Series motor

**Right Option Id : 53001**

## Question 54

Question Id : 54

A perfect conductor has :-

Answer :

- (A) Zero conductivity
- (B) Unity conductivity
- (C) Infinite conductivity
- (D) None of the given options

Option Id

 54001 54002 54003 54004**Right Answer :**

Infinite conductivity

## Question 55

Question Id : 55

Piezoelectric materials serve as a source of \_\_\_\_ :-

Answer :

(A) Resonant waves

(B) Musical waves

(C) Microwaves

(D) Ultrasonic waves

Option Id

 55001 55002 55003 55004**Right Answer :**

Ultrasonic waves

**Right Option Id : 55004**

## Question 56

Question Id : 56

\_\_\_\_\_ has zero temperature co-efficient of resistance.:-

Answer :

(A) Aluminium

(B) Carbon

(C) Porcelain

(D) Manganin

Option Id

 56001 56002 56003 56004**Right Answer :**

Manganin

**Right Option Id : 56004**

## Question 57

Question Id : 57

Thermocouples are mainly used for the measurement of:-

Answer :

(A) Temperature

(B) Resistance

(C) Eddy currents

(D) Coupling co-efficient

Option Id

 57001 57002 57003 57004**Right Answer :**

Temperature

## Question 58

Question Id : 58

Selenium is \_\_\_\_ semiconductor:-

Answer :

- |               | Option Id                   |
|---------------|-----------------------------|
| (A) Extrinsic | <input type="radio"/> 58001 |
| (B) Intrinsic | <input type="radio"/> 58002 |
| (C) N-type    | <input type="radio"/> 58003 |
| (D) P-type    | <input type="radio"/> 58004 |

**Right Answer :**

Intrinsic

**Right Option Id : 58002**

## Question 59

Question Id : 59

The forbidden gap in conductor, semiconductor and insulator is  $EG_1, EG_2, EG_3$  respectively. The relation among them is:-

Answer :

- |                          | Option Id                   |
|--------------------------|-----------------------------|
| (A) $EG_1 = EG_2 = EG_3$ | <input type="radio"/> 59001 |
| (B) $EG_1 > EG_2 > EG_3$ | <input type="radio"/> 59002 |
| (C) $EG_1 < EG_2 > EG_3$ | <input type="radio"/> 59003 |
| (D) $EG_1 < EG_2 < EG_3$ | <input type="radio"/> 59004 |

**Right Answer :** $EG_1 < EG_2 < EG_3$ **Right Option Id : 59004**

## Question 60

Question Id : 60

A transformer core is laminated to:-

Answer :

- |                                     | Option Id                   |
|-------------------------------------|-----------------------------|
| (A) Reduce hysteresis loss          | <input type="radio"/> 60001 |
| (B) Reduce eddy current losses      | <input type="radio"/> 60002 |
| (C) Reduce copper losses            | <input type="radio"/> 60003 |
| (D) Reduce all the mentioned losses | <input type="radio"/> 60004 |

**Right Answer :**

Reduce eddy current losses

## General English

## Question 61

Question Id : 70

Fill in the blank " \_\_\_\_\_ do you like this program ?"

Answer :

- |           | Option Id                   |
|-----------|-----------------------------|
| (A) How   | <input type="radio"/> 70001 |
| (B) Whose | <input type="radio"/> 70002 |
| (C) Where | <input type="radio"/> 70003 |
| (D) Who   | <input type="radio"/> 70004 |

**Right Answer :**

How

**Right Option Id : 70001**

## Question 62

Question Id : 69

Convert the following sentence from active to passive voice "The college principal liked the performance"

Answer :

- |   | Option Id                   |
|---|-----------------------------|
| (A) "The performance was liked by the college principal"  | <input type="radio"/> 69001 |
| (B) "The performance liked the college principal"         | <input type="radio"/> 69002 |
| (C) "The performance was liked the college principal by " | <input type="radio"/> 69003 |
| (D) "The performance liked by the collge principal"       | <input type="radio"/> 69004 |

**Right Answer :**

"The performance was liked by the college principal"

**Right Option Id : 69001**

## Question 63

Question Id : 66

As the train was delayed, they could cathch it \_\_\_they were late.

Answer :

- |                | Option Id                   |
|----------------|-----------------------------|
| (A) In         | <input type="radio"/> 66001 |
| (B) Although   | <input type="radio"/> 66002 |
| (C) Inspite of | <input type="radio"/> 66003 |
| (D) Until      | <input type="radio"/> 66004 |

**Right Answer :**

Although

**Right Option Id : 66002**

**Question 64**

**Question Id : 68**

Choose correct antonym of "Foremost"

Answer :

(A) Hindmost

Option Id

68001

(B) Unimportant

68002

(C) Disposed

68003

(D) Mature

68004

**Right Answer :**

Unimportant

**Right Option Id : 68002**

**Question 65**

**Question Id : 67**

Choose correct synonym of "PROPEL"

Answer :

(A) Drive

Option Id

67001

(B) Jettison

67002

(C) Burst

67003

(D) Acclimatise

67004

**Right Answer :**

Drive

**Right Option Id : 67001**

**Question 66**

**Question Id : 61**

Fill in the blanks with suitable words. I \_\_\_\_\_ a new dress yesterday. (Buy)

Answer :

(A) Bought

Option Id

61001

(B) Shall buy

61002

(C) Buy

61003

(D) Has bought

61004

**Right Answer :**

Bought

## Question 67

Question Id : 65

Identify the adjective in the following sentence: " Rahul is an intelligent boy "

Answer :

(A) Intelligent

(B) Rahul

(C) Boy

(D) None of the given options

Option Id

 65001 65002 65003 65004**Right Answer :**

Intelligent

**Right Option Id : 65001**

## Question 68

Question Id : 64

READ THE PASSAGE AND ANSWER THE QUESTIONS THAT FOLLOWS:

Global vaccination programs are introduced to prevent some dreaded diseases. The world's children are expected to be vaccinated against six common childhood diseases such as tuberculosis, diphtheria, whooping cough, tetanus, polio and measles. The percentage of the world's children vaccinated in the first year of life varies across continents. Europe is the continent with the most advanced immunization programs. Next is the position of America. Southeast Asia has the least developed program. Africa stands slightly higher than that except for DPT alone. All diseases deserve more attention for vaccination, especially in Southeast Asia And Africa. But worldwide polio deserves the most attention.

Question : Which continent has the least developed immunization program?

Answer :

(A) Europe

(B) America

(C) Southeast Asia

(D) Asia

Option Id

 64001 64002 64003 64004**Right Answer :**

Southeast Asia

**Right Option Id : 64003**

## Question 69

Question Id : 63

READ THE PASSAGE AND ANSWER THE QUESTIONS THAT FOLLOWS:

Global Vaccination Programs Global vaccination programs are introduced to prevent some dreaded diseases. The world's children are expected to be vaccinated against six common childhood diseases such as tuberculosis, diphtheria, whooping cough, tetanus, polio and measles. The percentage of the world's children vaccinated in the first year of life varies across continents. Europe is the continent with the most advanced immunization programs. Next is the position of America. Southeast Asia has the least developed program. Africa stands slightly higher than that except for DPT alone. All diseases deserve more attention for vaccination, especially in Southeast Asia And Africa. But worldwide polio deserves the most attention.

Question : Which disease deserves the most attention globally?

Answer :

Option Id

(A) Tuberculosis

63001

(B) Diphtheria

63002

(C) Polio

63003

(D) Tetanus

63004

**Right Answer :**

Polio

**Right Option Id : 63003**

### Question 70

Question Id : 62

READ THE PASSAGE AND ANSWER THE QUESTIONS THAT FOLLOWS:

Global Vaccination Programs Global vaccination programs are introduced to prevent some dreaded diseases. The world's children are expected to be vaccinated against six common childhood diseases such as tuberculosis, diphtheria, whooping cough, tetanus, polio and measles. The percentage of the world's children vaccinated in the first year of life varies across continents. Europe is the continent with the most advanced immunization programs. Next is the position of America. Southeast Asia has the least developed program. Africa stands slightly higher than that except for DPT alone. All diseases deserve more attention for vaccination, especially in Southeast Asia And Africa. But worldwide polio deserves the most attention.

Question : In which year of life are the world's children expected to be vaccinated ?

Answer :

Option Id

(A) Birth

62001

(B) First birthday

62002

(C) Second year of life

62003

(D) Fifth year of life

62004

**Right Answer :**

First birthday

**Right Option Id : 62002**

### General Knowledge

### Question 71

Question Id : 80

Who won the Maldives presidential election in 2023 ?

Answer :

Option Id

(A) Ibrahim Solih

80001

(B) Mohamed Muizzu

80002

(C) Abdulla Yameen

80003

(D) Mohamed Nasheed

80004

**Right Answer :**

Mohamed Muizzu

**Right Option Id : 80002**



**Question 72****Question Id : 77**

The Indian Institute of Sugarcane Research is located at -

Answer :

(A) Lucknow

(B) Coimbatore

(C) Ludhiana

(D) Bhopal

Option Id

 77001 77002 77003 77004**Right Answer :**

Lucknow

**Right Option Id : 77001****Question 73****Question Id : 79**

The members of the Rajya Sabha are elected by .....

Answer :

(A) The people

(B) Lok Sabha

(C) Elected members of the legislative assembly

(D) Elected members of the legislative council

Option Id

 79001 79002 79003 79004**Right Answer :**

Elected members of the legislative assembly

**Right Option Id : 79003****Question 74****Question Id : 78**

When was the foundation stone-laying ceremony for the Ayodhya Ram Mandir held ?

Answer :

(A) 2024

(B) 2021

(C) 2022

(D) 2020

Option Id

 78001 78002 78003 78004**Right Answer :**

2020

**Right Option Id : 78004**

**Question 75****Question Id : 76**

The boundary between India and Pakistan was demarcated by .....

Answer :

(A) Durand Line

(B) Mc Mohan Line

(C) Maginot Line

(D) Radcliffe Line

Option Id

 76001 76002 76003 76004**Right Answer :**

Radcliffe Line

**Right Option Id : 76004****Question 76****Question Id : 71**

Which one of the following groups of states accounts for about 90% of the annual coal production in India ?

Answer :

(A) Madhya Pradesh, Tamil Nadu and West Bangal

(B) Orissa, Madhya Pradesh and Tamil Nadu

(C) Jharkhand, Orissa, and Madhya Pradesh

(D) Jharkhand, Orissa and West Bangal

Option Id

 71001 71002 71003 71004**Right Answer :**

Jharkhand, Orissa and West Bangal

**Right Option Id : 71004****Question 77****Question Id : 75**

Who is the Director of the Chandrayan 3 mission ?

Answer :

(A) Veeramuthuvel

(B) M Vanitha

(C) Ritu Karidhal

(D) K. Sivan

Option Id

 75001 75002 75003 75004**Right Answer :**

Ritu Karidhal

**Right Option Id : 75003**

**Question 78**

**Question Id : 74**

Junk e-mail is also called

Answer :

(A) Spam

(B) Spoof

(C) Sniffer script

(D) Spool

Option Id

74001

74002

74003

74004

**Right Answer :**

Spam

**Right Option Id : 74001**

**Question 79**

**Question Id : 73**

Which of the following values indicates the Ph of a neutral solution ?

Answer :

(A) 3

(B) 7

(C) 4

(D) 9

Option Id

73001

73002

73003

73004

**Right Answer :**

7

**Right Option Id : 73002**

**Question 80**

**Question Id : 72**

What is the capital of Israel ?

Answer :

(A) Tel Aviv

(B) Jerusalem

(C) Haifa

(D) Gaza City

Option Id

72001

72002

72003

72004

**Right Answer :**

Jerusalem

**Right Option Id : 72002**

Reasoning

Question 81

Question Id : 90

If ENGLAND is 1234526 and FRANCE is 785291 written in a certain code language, how is GREECE written in that language?

Answer :

(A) 381191

(B) 381911

(C) 394142

(D) 5621134

Option Id

90001

90002

90003

90004

**Right Answer :**

381191

**Right Option Id : 90001**

Question 82

Question Id : 89

Arun is the father of Rohit. Rohit is the brother of Mala. Mala is Dilip's wife. How is Dilip related to Rohit?

Answer :

(A) Brother-in-law

(B) Father

(C) Uncle

(D) Son

Option Id

89001

89002

89003

89004

**Right Answer :**

Brother-in-law

**Right Option Id : 89001**

Question 83

Question Id : 88

Sameer ranks 12th from the top in a category of 40 students. Alok is eight ranks below Sameer. What is Alok's position from the bottom?

Answer :

(A) 20th

(B) 21st

(C) 22th

(D) 19th

Option Id

88001

88002

88003

88004

**Right Answer :**

21st

## Question 84

Question Id : 87

If the day before yesterday is Saturday, what day was it three days before yesterday?

Answer :

(A) Wednesday

(B) Sunday

(C) Tuesday

(D) Monday

Option Id

 87001 87002 87003 87004**Right Answer :**

Tuesday

**Right Option Id : 87003**

## Question 85

Question Id : 86

In the following series find the number in place of question mark.

15, 22, 29, 36, ?, 50, 57

Answer :

(A) 43

(B) 46

(C) 40

(D) 44

Option Id

 86001 86002 86003 86004**Right Answer :**

43

**Right Option Id : 86001**

## Question 86

Question Id : 85

Find the missing number.

36:50::64: ?

Answer :

(A) 14

(B) 78

(C) 81

(D) 82

Option Id

 85001 85002 85003 85004

**Right Answer :**

82

**Right Option Id : 85004**

**Question 87**

**Question Id : 84**

Study the set of numbers given below and answer the question which follow: 427, 581, 839, 275, 589, If two is subtracted from the hundredth place digit of each of the numbers and then the unit and the hundredth place digits are interchanged, which of the above mentioned numbers will be the lowest?

Answer :

- (A) 427 Option Id
- (B) 581  84001
- (C) 839  84002
- (D) 275  84003
- 84004

**Right Answer :**

581

**Right Option Id : 84002**

**Question 88**

**Question Id : 83**

Select the combination of numbers so that the letters are arranged accordingly to form a meaningful word.

H	B	M	R	S	U	O
1	2	3	4	5	6	7

Answer :

- (A) 3, 4, 2, 7, 6, 1, 5 Option Id
- (B) 5, 2, 7, 1, 4, 6, 3  83001
- (C) 4, 1, 7, 3, 2, 6, 5  83002
- (D) 4, 1, 7, 3, 2, 5, 6  83003
- 83004

**Right Answer :**

4, 1, 7, 3, 2, 6, 5

**Right Option Id : 83003**

**Question 89**

**Question Id : 82**

Look at this series : 12,11,13,12,14,13 what should be the next number

Answer :

- (A) 10 Option Id
- (B) 16  82001
- (C) 13  82002
- (D) 15  82003

**Right Answer :**

15

**Right Option Id : 82004**

**Question 90**

**Question Id : 81**

if SAFE : SECURE :: PROTECT : ?

Answer :

(A) LOCK

(B) GUARD

(C) SURE

(D) CONSERVE

Option Id

81001

81002

81003

81004

**Right Answer :**

GUARD

**Right Option Id : 81002**

**Mathematical Aptitude**

**Question 91**

**Question Id : 99**

Find the area of a square whose side measures 13m.

Answer :

(A) 9 m

(B) 9 sq m

(C) 169 sq m

(D) 169 m

Option Id

99001

99002

99003

99004

**Right Answer :**

169 sq m

**Right Option Id : 99003**

**Question 92**

**Question Id : 98**

HCF of 26 and 91 is:

Answer :

(A) 15

(B) 13

(C) 19

(D) 11

Option Id

98001

98002

98003

**Right Answer :**

13

**Right Option Id : 98002**

**Question 93**

**Question Id : 97**

What is the sum of  $5/13$  ,  $11/13$  , and  $13/13$  ?

Answer :

(A)  $14+1/13$

(B)  $3+2/13$

(C) 1

(D)  $2+3/13$

Option Id

97001

97002

97003

97004

**Right Answer :**

$2+3/13$

**Right Option Id : 97004**

**Question 94**

**Question Id : 96**

What is the reciprocal of  $17/5$  ?

Answer :

(A)  $1/17$

(B)  $7/15$

(C)  $15/7$

(D)  $5/17$

Option Id

96001

96002

96003

96004

**Right Answer :**

$5/17$

**Right Option Id : 96004**

**Question 95**

**Question Id : 91**

Which number is  $3+1/12$  part of 84 ?

Answer :

(A) 925

(B) 259

(C) 52

(D) 295

Option Id

91001

91002

91003



**Right Answer :**

259

**Right Option Id : 91002**

**Question 96**

**Question Id : 94**

Any point on the line  $Y = X$  is of the form :

Answer :

(A)  $(a, -a)$

(B)  $(0, a)$

(C)  $(a, 0)$

(D)  $(a, a)$

Option Id

94001

94002

94003

94004

**Right Answer :**

$(a, a)$

**Right Option Id : 94004**

**Question 97**

**Question Id : 93**

Which of the following has a fixed length ?

Answer :

(A) A line segment

(B) A line

(C) A ray

(D) A point

Option Id

93001

93002

93003

93004

**Right Answer :**

A line segment

**Right Option Id : 93001**

**Question 98**

**Question Id : 92**

What is the smallest possible 5 - digit even number that can be formed using all the digits in the sum of 82349 and 8268 ?

Answer :

(A) 10679

(B) 16790

(C) 10796

(D) 19706

Option Id

92001

92002

92003

**Right Answer :**  
10796

**Right Option Id : 92003**

**Question 99**

**Question Id : 95**

Find the value of X in this equation:  $6x-9-2(1+x) = x-9$ ?  
Answer :

- |         | Option Id                   |
|---------|-----------------------------|
| (A) 3/2 | <input type="radio"/> 95001 |
| (B) 2/3 | <input type="radio"/> 95002 |
| (C) 3/5 | <input type="radio"/> 95003 |
| (D) 5/6 | <input type="radio"/> 95004 |

**Right Answer :**  
2/3

**Right Option Id : 95002**

**Question 100**

**Question Id : 100**

The cost of the article was Rs. 15500 and Rs. 500 was spent on its repairing. If it is sold for a profit of 15%. The selling price of the article is:  
Answer :

- |               | Option Id                    |
|---------------|------------------------------|
| (A) Rs. 16400 | <input type="radio"/> 100001 |
| (B) Rs. 17400 | <input type="radio"/> 100002 |
| (C) Rs. 18400 | <input type="radio"/> 100003 |
| (D) Rs. 19400 | <input type="radio"/> 100004 |

**Right Answer :**  
Rs. 18400

**Right Option Id : 100003**