Railway Recruitment Board 2018

Notations:

- 2. Options shown in red color and with * icon are incorrect.

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Question Paper Name: Electrician 23rd Jan 2019 Shift1

Subject Name: Electrician **Duration:** 150 **Total Marks:** 175 **Display Marks:** No Yes

Share Answer Key With Delivery

Auto Save on Console?:

Engine:

Actual Answer Key: Yes **Calculator:** None Magnifying Glass Required?: No **Ruler Required?:** No **Eraser Required?:** No **Scratch Pad Required?:** No Rough Sketch/Notepad Required?: No **Protractor Required?:** No **Show Watermark on Console?:** Yes **Highlighter:** No

Group Number:	, 0	1
Group Id:		543353203
Group Maximum Duration:		90
Group Minimum Duration:		90
Revisit allowed for view?:		No
Revisit allowed for edit?:	· N	No
Break time:		0
Group Marks:		100

No

Part A

543353203 Section Id:

Section Number: 1 **Section type:** Online **Mandatory or Optional:** Mandatory **Number of Questions:** 100 **Number of Questions to be attempted:** 100

Section Marks: 100 **Display Number Panel:** Yes **Group All Questions:** No

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Question Shuffling Allowed:

Question Number: 1 Question Id: 54335318345 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Who was the chairman of the Constitution Drafting Committee?

Options:

- Dr. Rajendra Prasad
- Jawaharlal Nehru
- 3 🔷 Dr. B R Ambedkar
- Sardar Patel

Question Number : 2 Question Id : 54335318346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The Living Planet Report, released every two years, is the flagship publication of which organisation?

Options:

- The Nature Conservancy
- Wildlife Conservation Society
- 3 World Wide Fund for Nature
- 4 Conservation International

Question Number: 3 Question Id: 54335318347 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The National Skills Development Corporation (NSDC) is a public-private partnership formed under India's

Options:

- Ministry of Finance
- 2 Ministry of Electronics & Information Technology
- 3 Ministry of Science & Technology
- 4 Ministry of Corporate Affairs

Question Number : 4 Question Id : 54335318348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following recipients of the Dadasaheb Phalke Award received it posthumously?

Naushad Naushad
2. * Durga Khote
3. Vinod Khanna
4. Satyajit Ray
Question Number : 5 Question Id : 54335318349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Who invented the blue jeans?
Options: 1 ** Todd Oldham
2. * Calvin Klein
3. ✔ Levi Strauss
4. * Gianni Versace
Question Number : 6 Question Id : 54335318350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
The author of 'The Monk Who Sold His Ferrari' is
Options:
1. * Manohar Malgonkar
The author of 'The Monk Who Sold His Ferrari' is Options: 1. * Manohar Malgonkar 2. * Arundhati Roy 3. * Arvind Adiga
3. Arvind Adiga
4. Pobin Sharma
Question Number: 7 Question Id: 54335318351 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which team won the Indian Premier League (IPL) in 2018?
Options:
1. * Royal Challengers Bangalore
2. * Kolkata Knight Riders
3. Chennai Super Kings

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Hyderabad Sunrisers

Question Number: 8 Question Id: 54335318352 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The Umaid Bhawan Palace is in which city?

Options:

- udaipur 💥 Udaipur
- Jaipur
- 3 8 Bikaner
- 🗸 🥒 Jodhpur

Question Number: 9 Question Id: 54335318353 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Classical musician Shivkumar Sharma is associated with which musical instrument?

Options:

- 1 🗱 Tabla
- Shehnai
- w Violin
- Santoor

 $Question\ Number: 10\ Question\ Id: 54335318354\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Which of the following folk dances is from Assam?

Options:

- 1 * Nati
- 2. Bagurumba
- Giddha
- 4 & Lezim

Question Number: 11 Question Id: 54335318355 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Find the power (in W) of a pump if it can lift 1 tonne of water by 90 m in 30 minutes. (Assume 100% efficiency and use

 $g = 10 \text{ m/s}^2$

- 1 * 50
- 2 \$ 250
- 3 * 25
- 4 🗸 500

 $Question\ Number: 12\ Question\ Id: 54335318356\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

210 mm x 297 mm are the dimensions of size paper.

Options:

- 1. * A3
- 2. * A2
- 3 * A1
- 4 V A4

 $Question\ Number: 13\ Question\ Id: 54335318357\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Find the specific latent heat of vaporisation of 1.25 g of nitrogen (in Jg⁻¹), if it releases 250 joules of heat when it condenses at its boiling point of 196° C.

Options:

- 1 * 312.5
- 2. \$ 500
- 3 * 469
- 4. 🖋 200

Question Number: 14 Question Id: 54335318358 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is the correct relation between resistance 'R', conductivity 'o', length 'L' and area of cross section 'A' of a metal wire?

- $1. \ll R\sigma A = L$
- 2. * RA = Lσ
- $\sigma = RL/A$

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS 4. ** RL = Aσ
Question Number: 15 Question Id: 54335318359 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
An arrowhead at the end of a dimension line is approximately long and 1 mm wide.
Options:
1. * 1.5 mm
2. * 1 mm
3. 3 mm
4. * 5 mm
Question Number: 16 Question Id: 54335318360 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Find mass of an iron cube of side 2 cm. (Density of iron is 7.8 gm/cm ³)
Options:
1. * 0.975 gm
2. 62.4 gm
3. 3 .9 gm
4. 1 5.6 gm
Question Number: 17 Question Id: 54335318361 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Find the work done (in kJ) if a force of 750 N pushes a cart of mass 30 kg by 16 m.
Options:
1. * 24
2. 🗸 12
3. * 48
4. * 36
Question Number: 18 Question Id: 54335318362 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
In a certain gear train, the driver has 18 teeth while the follower has 8 teeth. For every 16 turns of the driver, the
follower turns times.

1.	36	VISIT WWW.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS
2. 🕷	8	
з. 💥	18	
4. 🗱	9	
Single	Line Question	19 Question Id: 54335318363 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes n Option: No Option Orientation: Vertical ous substance can cause lung cancer?
Option	ns:	
1. **	Benzene	vapours
2. 🗸	Asbestos	particles
3. 💥	Arsenic	
4. 🕷	Herbicide	es
Quest Single	Line Question	20 Question Id: 54335318364 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes n Option: No Option Orientation: Vertical is software used to maintain the security of a private network.
	18 3	
Option 1.	clickbait	
2. 🗱	encryptio	on ·
3. 🗸	firewall	
4. 🗱	malware	
Single	Line Question eleration due	21 Question Id: 54335318365 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes n Option: No Option Orientation: Vertical to gravity on moon is 1/6th that on earth. How much would an astronaut weigh on moon if he weighs
90 k	gf on earth?	(acceleration due to gravity on earth = 10m/s^2)
Option	ns:	
1. **	90 N	
2. 🗱	15 N	
3. 🗸	150 N	

4. * 9 N

Question Number : 22 Question Id : 54335318366 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Two children, weighing 30 kg and 15 kg, sit on one side of a see-saw at a distance of 1 m and 1.2 m respectively, from the fulcrum. A boy of 'M' kg sits on the other side of the see-saw at a distance of 1.2 m from the fulcrum, and the see-saw is in equilibrium. Find M.

Options:

- 1 * 48
- > * 36
- 2 4 40
- 4 * 45

Question Number : 23 Question Id : 54335318367 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

is when we cover a surface with a pattern of flat shapes so that there are no overlaps or gaps.

Options:

- 1 Kerning
- y 🙀 Tracking
- 3 V Tessellation
- 4 # Gradient

Question Number: 24 Question Id: 54335318368 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

curves employ at least three points to define a curve. The two endpoints of the curve are called anchor points. The other points, which define the shape of the curve, are called handles, tangent points, or nodes.

Options:

- 1 * Bicorn
- 2. * Deltoid
- 🙎 🙀 Kappa
- A Bezier

Question Number: 25 Question Id: 54335318369 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS A map converts colour intensity or grayscale information to heights to give the appearance that features as
raised above the surface, like embossed letters.
Options :
* shade
* tint
bump
tone tone
Question Number: 26 Question Id: 54335318370 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes lingle Line Question Option: No Option Orientation: Vertical
Which of the following is NOT a base unit?
Options :
* candela
radian · · · ·
mole mole
ampere ampere
Question Number: 27 Question Id: 54335318371 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes lingle Line Question Option: No Option Orientation: Vertical
Farad per metre is the unit of
Options:
* electric conductance
permittivity
permeability
watt per steradian
Question Number: 28 Question Id: 54335318372 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes
Single Line Question Option : No Option Orientation : Vertical An object with greater has greater inertia.
Options:
velocity
w mass

acceleration	
4. * volume	
Question Number: 29 Question Id: 54335318373 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical	
Find the length (in cm) of the edge of a cube of a piece of wood which weighs 80 N. (Use $g = 10 \text{ m/s}^2$, density of wood which weighs 80 N.	00
$= 1 g/cm^3)$	
Options:	
1. * 40	
2. 20	
3. * 60	
4. * 80	
Question Number: 30 Question Id: 54335318374 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical	
If the speed of a car increases from 54 km/hr to 90 km/hr, its kinetic energy would increase in the ratio	
Options:	
1. * 3/5	
2. * 4/9	
3. * 9/16	
4. 🗸 9/25	
Question Number: 31 Question Id: 54335318375 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Two cars, X and Y, travel from A to B at average speeds of 50 km/hr and 75 km/hr respectively. If X takes 2 hours more	
than Y for the journey, then the distance between A and B in km is	
Options :	
1. * 400	
2. * 600	
3. 300	
4. * 800	

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Find the heat capacity of a pan of mass 200 g, if its temperature rises by 8° C on receiving 2000 J of heat.

- 1. ✓ 250 JK⁻¹
- 2. * 50 Jkg⁻¹K⁻¹
- 3. ¥ 5 JK⁻¹
- 4. * 1.25 Jkg⁻¹K⁻¹

 $Question\ Number: 33\ Question\ Id: 54335318377\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Find the specific heat capacity (in Jg⁻¹K⁻¹) of a block of metal of mass 500 g, the temperature of which rises by 80 °C when it absorbs 10 kJ of heat?

Options:

- 1 * 1.56
- **20.16**
- **2** 0.4
- 4 / 0.25

Question Number: 34 Question Id: 54335318378 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The resistance of a metal rod depends on all of the following, EXCEPT

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- temperature
- length
- density
- resistivity

Question Number: 35 Question Id: 54335318379 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Two resistors of R Ω and 60 Ω are connected in parallel to get an effective resistance of 24 Ω . Find R.

Options:

1 * 48

≥ 1 40

× 56

4 * 64

Question Number : 36 Question Id : 54335318380 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If 36 J of work is done in moving a charge Q across 8 V, find Q (in coulombs).

Options:

1 * 288

2 # 9

3 * 16

4 4 4.5

 $Question\ Number: 37\ Question\ Id: 54335318381\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Find the potential difference (in V) across a resistance of 2.5 k Ω through which a 2 mA current flows.

Options:

1 * 1.25

2 # 0.8

3. * 0.2

4. 🗸 5

Question Number : 38 Question Id : 54335318382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Find the efficiency of a pulley system which has a mechanical advantage of 2.5 and where the load lifts by 2.5 meters on pulling the rope by 10 m.

Options

1. * 100.00%

2 \$ 25.00%

3 * 40.00%

4. 4 62.50%

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Question Number : 39 Question Id : 54335318383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical What is the relative density of a solid of mass 50 gm which when fully immersed in water weighs 10 gm? **Options:** 1 1.25

2.	×	5	

0.8

 $Question\ Number: 40\ Question\ Id: 54335318384\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

A and B start to walk from point P towards point Q. The distance between P and Q is 9 km. B starts 4 minutes after A. A, on reaching Q, immediately returns and after walking a kilometre meets B. If A's speed is a kilometre in 10 minutes, what is B's speed in kilometres per minute?

Options:

1 / 1/12

1/8

1/15

Question Number: 41 Question Id: 54335318385 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If half a litre of hot water at 90°C is mixed with three and a half litres of cold water at 10°C, find the final equilibrium temperature (in °C) if no heat is lost.

Options:

1 / 20

30

 $Question\ Number: 42\ Question\ Id: 54335318386\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Antihistamines are found in some first-aid boxes. When should these drugs be taken?

Options:

To aid in clotting of blood

- To bring relief from asthma
- To ease indigestion and heartburn

Question Number: 43 Question Id: 54335318387 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A truck of mass 5000 kg accelerates from 25 m/s to 35 m/s. Find the change in its kinetic energy (in MJ).

Options:

- 1. * 1
- 3 🗸 1.5
- 2.5

Question Number: 44 Question Id: 54335318388 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A bullet travels 90 m in 0.2 seconds. Find its speed in km/hr. MININ. EXO

Options:

- 1 * 125
- **3** 162
- 1,620

 $Question\ Number: 45\ Question\ Id: 54335318389\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

-100° Celsius = Fahrenheit

- 1. **✓** −148°
- ≈ -212°
- ≈ 173°
- 4. **≈** −373°

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Question Number: 46 Question Id: 54335318390 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Which of the following is an example of a first class lever?
Options:
1. * Wheel barrow
2. A pair of scissors
3. * Nut cracker
4. * Ice tongs
Question Number: 47 Question Id: 54335318391 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Green and yellow vegetables in our diet mostly provide us which element as food?
Options:
1. ** Copper
2. Potassium
3. * Zinc
4. Sodium
Question Number: 48 Question Id: 54335318392 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which of the following gases is a highly poisonous, odourless, tasteless and colourless gas?
Options:
1. * Carbon dioxide
2. * Methane
3. * Nitrogen dioxide
4. Carbon monoxide
Question Number : 49 Question Id : 54335318393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
is the physiological adjustment by an organism to environmental change.
Options:
1. * Bioaccumulation
2 * Bioremediation

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Cogeneration Acclimation Question Number: 50 Question Id: 54335318394 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option : No Option Orientation : Vertical is to prepare a storage medium, usually a disk, for reading and writing. **Options:** boot defrag map format Question Number: 51 Question Id: 54335318395 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Binary 110110101 is equal to decimal **Options:** 1 349 477 437 333 Question Number: 52 Question Id: 54335318396 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The sum of two binary numbers 1101111 and 1100101 is ... **Options:** 11010100 11110000 100000110 100011100

Single Line Question Option: No Option Orientation: Vertical

 $20 - 2[25\% \text{ of } (15 \times 8 \div 6 + 12)] =$

Question Number: 53 Question Id: 54335318397 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

- 1 * 6
- . . .
- -

× 10

4 🗸 4

Question Number: 54 Question Id: 54335318398 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

$$(0.1^2 - 0.025^2) \div (0.1 - 0.025) =$$
_____.

Options:

- 1 # 0.25
- 2 / 0.125
- 3 * 0.625
- 4. * 0.325

 $Question\ Number: 55\ Question\ Id: 54335318399\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

An executive earns a salary of ₹ 12,600 every month, and he spends 5/7 of it. If his salary increases by 1/3rd and his spending increases by 1/5th of the present expenditure, what fraction of his salary will he save?

Options:

- 1 🗸 5/14
- 2 * 7/15
- 3 * 8/15
- 4 * 7/16

Question Number : 56 Question Id : 54335318400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Find the highest common factor of 506 and 782.

- 1 * 22
- 2. 46
- 3 * 34

4 * 29

Question Number: 57 Question Id: 54335318401 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 3A = 6B = 7C; find A: B: C.

Options:

- 1 * 7:12:6
- 2 14:7:6
- 3. * 7:3:12
- 4 * 12:7:3

Question Number: 58 Question Id: 54335318402 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

When a number is increased by 36, it becomes 109% of itself. What is the number?

Options:

- 1 * 360
- 2 * 300
- 3 🗸 400
- 4 \$ 450

 $Question\ Number: 59\ Question\ Id: 54335318403\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

What is the area (in cm²) of an equilateral triangle of side 8 cm?

Options:

- 1 2 8√3
- 2 ₩ 16√3
- 3. ₩ 32√3
- 4 8 64√3

Question Number : 60 Question Id : 54335318404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the diameter (in cm) of a sphere of surface area 1386 cm2?

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2. * 10.5
3. * 14
4. * 24.5
Question Number: 61 Question Id: 54335318405 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A alone can do a task in 35 days and B alone in 14 days. If they work on it together for 5 days, then what fraction of the task is left? Options: 1. * Quarter 2. * Three fourths 3. * One-thirds
Question Number: 62 Question Id: 54335318406 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical If A, B and C can do a task working alone in 12, 18 and 36 days respectively. They all work together for 2 days, then E quits. How many days A and C working together will take to complete the remainder of the task? Options: 1. * 9 2. * 4 3. * 6
Question Number: 63 Question Id: 54335318407 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical In a steady-flowing river, a boat goes a certain distance upstream at a speed of 12 km/h and comes back the same distance at 24 km/h. Find the average speed for the total journey. Options: 1. 16 km/h 2. 18 km/h

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4. * 15 km/h

Question Number : 64 Question Id : 54335318408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If the amount received at the end of 1st and 2nd year at compound interest on a certain principal is $\ge 1,350$ and $\ge 1,458$ respectively, what is the rate of interest?

Options:

- 1. * 10%
- 2 \$ 12%
- 3 / 8%
- 4 \$ 15%

Question Number : 65 Question Id : 54335318409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If a shopkeeper sells an item at ₹ 2,700, he makes 8% profit. If he sells the item at ₹ 3,000 what will be the percentage of profit?

Options:

- 1. * 12
- 2 # 25
- > * 10
- 4 / 20

Question Number : 66 Question Id : 54335318410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A trader buys 60 bags of grain at ₹ 400 each. If he sells 18 bags at 8% profit, at what price should he sell the remaining bags to make 16.4% overall profit on selling the 60 bags?

Options:

- 1. ₩ ₹ 500
- 2. ₩ ₹ 520
- 3 * ₹ 540
- 4 ✔ ₹ 480

Question Number: 67 Question Id: 54335318411 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

If 5x/2 - 1/4 (6x - 5/3) = 7/6, then the value of x is _____.

- 1. 4 3/4
- 2 \$ 5/4
- 3 * 3/7
- 4 \$ 5/7

 $Question\ Number: 68\ Question\ Id: 54335318412\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

If a - b = 5 and ab = 14, then find $a^2 + b^2$?

Options:

- 1. * 27
- 2. 153
- 3. * 19
- 4 * 5

 $Question\ Number: 69\ Question\ Id: 54335318413\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Find the co-ordinates of the midpoint of the segment joining the points (-4,7) and (2,3).

Options:

- 1. * (2,4)
- 2 * (-2,3)
- ₃ 🧳 (-1,5)
- 4. * (1,-5)

 $Question\ Number: 70\ Question\ Id: 54335318414\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Find the value of $5 \sin\Theta - 2 \csc\Theta$, if $\Theta = 30^{\circ}$.

- 1. * 3/2
- 2 * -2/3
- 3 * 2/3

Question Number: 71 Question Id: 54335318415 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Find x if the mean of the numbers 10, 4, 1, 15, 15, x, 12 and 14 is 10.

Options:

- 1 * 8
- > * 10
- 3 * 7
- 4 🗸 9

Question Number : 72 Question Id : 54335318416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If $\sqrt{X} + 0.24 = \sqrt{0.1296}$, then find X.

Options:

- 1 * 1.44
- 2 # 0.12
- 3 \$ 0.0012
- 4. 🗸 0.0144

Question Number: 73 Question Id: 54335318417 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

At present, the ratio between the ages of Anu and Dimpy is 5: 8. After 2 years, the ratio of their ages will become 2: 3. What was Dimpy's age before 2 years?

Options:

- 1 / 14
- o **×** 16
- ≥ ≈ 10
- **4 *** 12

 $Question\ Number: 74\ Question\ Id: 54335318418\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

What is the angle between the hour hand and the minute hand at half past two?

1. **	75°	VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS
2. 🗸	105	c c
3. 🛎	90°	
4. 🗱	120	C C
Single Pipe	e Line (e A can	mber: 75 Question Id: 54335318419 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Question Option: No Option Orientation: Vertical a fill a tank in 6 hours. Pipe B can empty it in 15 hours. If both the pipes are opened together, then the tank ed in how many hours?
Optio	ons:	
1. 🗱	8	
2. 🗱	9	
3. ✔	10	
4. 🕊	12	
Single	e Line (mber: 76 Question Id: 54335318420 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Question Option: No Option Orientation: Vertical option that is related to the third word on the same basis as the second word is related to the first word.
Lett	er : Er	velope :: Dagger : ?
Optio	ons :	
1.	~1	ath
2. 💥	Wea	apon
3. 🛎	Swo	ord
4. *	Sha	rp
Single	e Line (mber: 77 Question Id: 54335318421 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Question Option: No Option Orientation: Vertical option that is related to the third word on the same basis as the second word is related to the first word.
Poe	m : Sta	anza::Book:?
Optio		
1. **	Stor	y
2. 🗱	Prin	ting

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 $\label{lem:question} Question\ Number: Yes\ Display\ Question\ Id: 54335318422\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

In the following question, which set of letters and numbers, when sequentially placed at the gaps in the given series, shall complete it?

1_2x_bb_yy_cc_6zzz

Options:

- 1. * 3a45c
- 2 × 3a45b
- 3 × 3a4b5
- 4 / a345c

Question Number : 79 Question Id : 54335318423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Find the missing number in the given series.

-1.3, -0.8, -0.3, ?, 0.7, 1.2

Options:

- 1. * 0.3
- 2. / 0.2
- 3. * 0.4
- 4. \$ 0.1

Question Number: 80 Question Id: 54335318424 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In a certain code DIRTY is coded as 24759 and FOAM is coded as 1863. Using the same code ARID will be coded as

- 1. * 9165
- 2. * 2489
- 3 6742
- 4 * 1579

Question Number : 81 Question Id : 54335318425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Here are some words from an artificial language.

unacri means lighthouse

bancri means lightweight

banetu means overweight

Which word would mean 'overdrive'?

Options:

- 1 * simuna
- adiban
- 3 🖋 adietu
- 4 🗱 criteh

 $Question\ Number: 82\ Question\ Id: 54335318426\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

In a certain code language, '+' represents '×', '÷' represents '+', '-' represents '+' and '×' represents '-'. Find out the answer to the following question.

$$12 \div 6 - 2 + 10 \times 5 = ?$$

Options:

- 1 # 16
- 2 # 23
- 3. 🗸 37
- 4 \$ 50

 $Question\ Number: 83\ Question\ Id: 54335318427\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

If 8 # 12 = 10; 5 # 9 = 7; 6 # 10 = 8, then find the value of 14 # 4.

- 1 * 10
- 2 🗸 9
- 3 * 5
- 4 * 3

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS If A \$ B means A is the husband of B, A # B means A is the brother of B and A * B means A is the mother of B, then what does P S Q * R # S mean?

Options:

- 1 * P is the son of S
- P is the brother of S
- P is the brother-in-law of S
- 4 / P is the father of S

Question Number: 85 Question Id: 54335318429 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

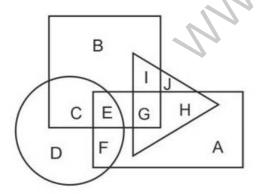
A said to B, "You are my husband's daughter-in-law's son." How is B related to A?

Options:

- 1. B is the grandson of A
- B is the son of A
- B is the father of A
- B is the brother of A

Question Number: 86 Question Id: 54335318430 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

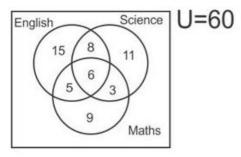
In the following figure, the triangle represents actors, the square represents professors, the circle represents Indians and the rectangle represents fathers. Which set of letters represents Indians who are either professors or fathers?



- **SECOND**

Question Number: 87 Question Id: 54335318431 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The given Venn diagram shows the number of students who have passed in the three exams, viz. English, Science and Maths. How many students failed in all the three exams?



Options:

1 🗸 3

2 * 6

ຊ 🗱 🧐

4 * 12

Question Number: 88 Question Id: 54335318432 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In the question, two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement 1: Some wagons are buggies.

Statement 2: All wagons are carts.

Conclusion I: All buggies are carts.

Conclusion II: Some carts are buggies.

Options:

Only conclusion I follows

Only conclusion II follows

Both I and II follow

4. * Neither I nor II follows

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS In the question, two statements are given, followed by three conclusions, I, II and III. You have to consider the

statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement 1: All flags are banners.

Statement 2: Some flags are emblems.

Conclusion I: Some emblems are banners.

Conclusion II: All banners are emblems.

Conclusion III: No emblems are banners.

Options:

Only conclusion I follows

Only conclusion III follows

Only conclusion I and III follow

All conclusions I, II and III follow

Question Number: 90 Question Id: 54335318434 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the figure which is different from the rest. Mulul Sto

Options:

	Α	С	Q
	z	D	Е
1 %	N	F	Н







Question Number: 91 Question Id: 54335318435 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Choose the letters which are different from the rest.

Question Number : 94 Question Id : 54335318438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS One statement is given, followed by two assumptions, I & II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given assumptions can definitely be drawn from the given statement.

Statement: "You are appointed as a trainee accountant on temporary basis. Your employment status will automatically be converted to permanent on submission of pass result of M Com final exam." - Extract from an appointment letter.

Assumptions:

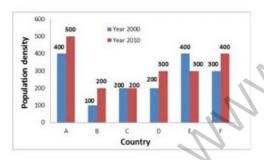
- M Com final exam is a reasonable proof of an accountant's capability.
- II. All trainees are appointed on temporary basis.

Options:

- Only assumption I is implicit
- Only assumption II is implicit
- Neither I nor II is implicit
- Both I and II are implicit

Question Number: 95 Question Id: 54335318439 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The bar graph shows the population density of 6 countries for the years 2000 and 2010. By how much is area of Country B greater than area of Country D, if population of Country B in 2000 was 10 million and population of Country D in 2010 was 6 million. Population density is measured here as number of people per 100 sq. km.



Options:

400%

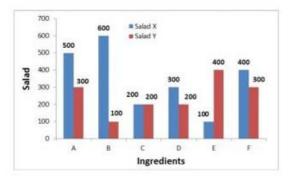
500%

20%

25%

Question Number: 96 Question Id: 54335318440 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS. The bar graph shows all the ingredients (in grams) required to make two types of salads, X and Y. If Ingredient B of Salad X is reduced by 100 grams and Ingredient E of salad Y is increased by 25% then salad Y would be lighter than salad X by ____



Options:

- 25%
- 37.50%
- 20%
- 22.50%

Question Number: 97 Question Id: 54335318441 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Rearrange the parts of the sentence in correct order.

In terms of reasons that a customer

- X possibility is that they've actually finished changing, but
- Y might not come out of the changing room, one
- Z the clothes are hopelessly unsuitable

Options:

- ZXY
- ZYX
- XZY
- YXZ

Question Number: 98 Question Id: 54335318442 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS The sentences given in the question, which, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

Outside their window there was a vine with attractive foliage, but it started shedding leaves one by one as summer passed through fall into winter.

- A Came dawn, when Johnsy looked out of the window from her sick bed, lo and behold, the leaf was still there and it continued to be there on the following days.
- B Finally, only one last leaf remained. Johnsy told Sue that when that leaf fell, her life would also go.
- C The girl regained her will to live and was fully recovered in a few days.
- D A concerned elderly artist friend of the girls, hearing this story, climbed outside the window in the bitterly cold night and painted a life-like leaf at the spot from where the last leaf had just fallen.

Options:

- 1 W BDAC
- BDCA
- DBAC
- DBCA

Question Number: 99 Question Id: 54335318443 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The weights of 3 boxes are 4, 7 and 10 kilograms. Which of the following CANNOT be the total weight, in kilograms, of any combination of these boxes? MMM.

14. CO//

Options:

- 1 * 14
- 2 🗸 18
- **×** 17
- 4 * 21

Question Number: 100 Question Id: 54335318444 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

One statement is given followed by two conclusions. Decide which of the given conclusions can definitely be drawn from the given statement.

Statement: As income increases, cars become more affordable.

Conclusion I: With greater use of technology, cars are now cheaper than they were a generation ago.

Conclusion II: Cars will become so numerous that no future technology will solve the traffic problem.

- Only conclusion I follows
- Only conclusion II follows
- Neither I nor II follows
- Both I and II follow

	Part B	
Group Number :	2	
Group Id:	543353204	
Group Maximum Duration:	60	
Group Minimum Duration:	60	
Revisit allowed for view?:	No	
Revisit allowed for edit?:	No	
Break time:	0	
Group Marks:	75	

Electrician

Section Id: 543353204

Section Number:

Section type:

Mandatory or Optional:

Online

Mandatory

Number of Questions:

Number of Questions to be attempted:

Section Marks:

Display Number Panel:

Group All Questions:

No

Sub-Section Number: 1

Sub-Section Id: 543353204 **Question Shuffling Allowed:** Yes

 $\label{eq:Question Number: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical$

Batteries are usually rated in

- watt-hour
- ampere/sec
- 3. 🕢 ampere-hour

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4. 🗱 kilo watt

Question Number : 102 Question Id : 54335318446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The function of filter capacitor in a rectifier circuit is to reduce

Options:

- amplitude
- frequency
- Harmonics
- 4 🥒 Ripple

Question Number: 103 Question Id: 54335318447 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Transistor works as an amplifier in

Options:

- Depletion region
- Active region
- 🙎 🙀 saturation region
- cutoff region

Question Number: 104 Question Id: 54335318448 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Overspeed protection of the diesel generator is done by:

Options:

- Differential relay
- over current relay
- 3 Governor
- 4 & Alarm

Question Number: 105 Question Id: 54335318449 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the Ingress Protection rating of an outdoor housing light?

many free electrons

Question Number: 109 Question Id: 54335318453 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is the full form of UPS?

Options:

- uninterruptible Power Supply
- Universal Pulse Supply
- Unidirectional Power Supply
- United Power Supply

Question Number: 110 Question Id: 54335318454 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

An offline UPS requires:

Options:

- Battery
- Resistor
- Capacitor

 $Question\ Number: 111\ Question\ Id: 54335318455\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

What is the full form of MPCB?

Options:

- 1 Motor Phase Control Board
- Motor Protection Circuit Breaker
- Motor Polarity Control Board
- Motor Protection Capacitance Bank

Question Number: 112 Question Id: 54335318456 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In India, household appliances generally operate on:

1.		
2. * 110 V		
3. * 120 V		
4. * 50 V		
Question Number: 113 Question Id: 54335318457 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical		
In India, single phase AC wall sockets are generally supplied with frequency.		
Options:		
1. ✓ 50 Hz		
2. 8 65 Hz		
3. * 40 Hz		
4. * 100 Hz		
Question Number: 114 Question Id: 54335318458 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical		
An inverter circuit is used to convert:		
Options:		
Options: 1. * A. C. to D. C.		
Options:		
Options: 1. * A. C. to D. C.		
Options: 1. ★ A. C. to D. C. 2. ✔ D. C. to A. C.		
Options: 1. * A. C. to D. C. 2. D. C. to A. C. Low frequency to high frequency		
Options: 1. ** A. C. to D. C. 2. ** D. C. to A. C. 3. ** Low frequency to high frequency 4. ** High frequency to low frequency Question Number: 115 Question Id: 54335318459 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A current of 10 A flows through a resistance of 10 Ω. The heat produced is:		
Options: 1. * A. C. to D. C. 2. D. C. to A. C. 3. * Low frequency to high frequency 4. * High frequency to low frequency Question Number: 115 Question Id: 54335318459 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical		
Options: 1. ** A. C. to D. C. 2. ** D. C. to A. C. 3. ** Low frequency to high frequency 4. ** High frequency to low frequency Question Number: 115 Question Id: 54335318459 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A current of 10 A flows through a resistance of 10 Ω. The heat produced is: Options:		
Options: 1. * A. C. to D. C. 2. D. C. to A. C. 3. * Low frequency to high frequency 4. * High frequency to low frequency Question Number: 115 Question Id: 54335318459 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A current of 10 A flows through a resistance of 10 Ω. The heat produced is: Options: 1. * 10000 W		

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 $\label{eq:Question Number: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical$

How is heat distributed to the base plate of an electric iron?

Options:

- Through circulation
- Through conduction
- nation 😦 🙀 Through radiation
- Through convection

Question Number: 117 Question Id: 54335318461 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The heating element in a toaster is made of _____ wire

Options:

- 1 / nichrome
- » nickel
- kanthal
- cupronickel

 $Question\ Number: 118\ Question\ Id: 54335318462\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

The range of temperature for soldering is:

Options:

- 1 × 100 °C to 150 °C
- 2. ✓ 180 °C to 250 °C
- 3. ***** 600 °C to 900 °C
- 4 * 1000 °C to 2000 °C

Question Number: 119 Question Id: 54335318463 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The EMF of a dry cell is about:

Options:

1. * 0 V

Wind power plants

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Question Number: 123 Question Id: 54335318467 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes
Single Line Question Option: No Option Orientation: Vertical

A utility pole is a column or post used to support:

Options:

- overhead power lines
- overhead fibre optic cables
- overhead street lights
- overhead power lines, fibre optic cables and street lights

Question Number: 124 Question Id: 54335318468 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The power consumed for balance load in star and delta connection is:

Options:

- 1. 3V_LI_Lcos θ
- $_{2.}$ $\sqrt{3V_{L}I_{L}\cos\theta}$
- 3V_pI_pcos θ
- $\sqrt{3}V_LV_LI_L\sin\theta$

Question Number: 125 Question Id: 54335318469 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

An Auto transformer is a / and

Options:

- 1 * automatic transformer
- 2 automobile transformer
- 3. variable output voltage transformer
- variable input voltage transformer

Question Number: 126 Question Id: 54335318470 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The starting capacitor used in single phase motors is:

Options:

Mica capacitor

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3. V Electrolytic capacitor
4. * Timer capacitor
Question Number: 127 Question Id: 54335318471 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical When electric current passes through a conducting solution, there is a change in colour of the solution. What does indicate? Options:
Heating effect of current
1. * Freding cheet of current
2. Chemical effect of current
3. * Magnetic effect of current
4. * Lighting effect of current
Question Number: 128 Question Id: 54335318472 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical An element which stores energy in the form of magnetic field is
Options: 1. ** Tungsten Resistor
2. Carbon Inductor
3. * Eureka Capacitor
4 * Nichrome Varistor
Question Number: 129 Question Id: 54335318473 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
What will be the body resistance value of a person with normal age and health?
Options:
$1 \sim 1 \text{ kilo } \Omega$
2. * 10 kilo Ω
3. * 5 kilo Ω
4 * 0.5 kilo Ω

Question Number: 130 Question Id: 54335318474 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is a unit of force?

Options:

- 1 # Joule
- 2 / Newton
- 3 × Volt
- 4 S Ohms

Question Number: 131 Question Id: 54335318475 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which one of the following is an insulator?

Options:

- Copper **
- o Silver
- 3 / Plastic
- ₄ ፠ Iron

Question Number: 132 Question Id: 54335318476 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Ohms law states that:

Options:

$$1 \times I = V \times R$$

$$_{2.} \checkmark I = V/R$$

$$3. \times V = R/I$$

Question Number: 133 Question Id: 54335318477 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which one of the following is a dry cell?

Options:

1. Silver Oxide cell

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Lithium cell Zinc Chloride cell Zinc - Carbon cell Question Number: 134 Question Id: 54335318478 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Which primary cell has the longest life? **Options:** 1 ✓ Lithium cell Mercury cell Alkaline cell Carbon zinc cell Question Number : 135 Question Id : 54335318479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical The watt - hour efficiency of a lead acid cell varies between and MM. As **Options:** 40%,60% 2 \$ 90%,95% Question Number: 136 Question Id: 54335318480 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A 10 ohm resistor is connected across a 100 V DC source. The value of current flowing through the circuit is **Options:** 1 * 1 A 110 A 3 * 100 A 4 🗸 10 A

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Question Number: 137 Question Id: 54335318481 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes
Single Line Question Option: No Option Orientation: Vertical

In a DC generator, the number of poles and the number of armature conductors are fixed. Which of the following windings will give a higher EMF?

Options:

- Lap Winding
- Wave Winding
- Field winding
- Depends on other features of design

Question Number: 138 Question Id: 54335318482 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

What is Ward-Leonard control?

Options:

- Voltage control method
- Field diverter method
- Field control method
- 4 * Armature resistance control method

 $Question\ Number: 139\ Question\ Id: 54335318483\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

How much power does an ordinary mixer draw?

Options:

- 1 * 5000 watts
- 2 × 100 watts
- 3 400 watts
- 4 * 2000 watts

Question Number: 140 Question Id: 54335318484 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Cable lugs are also called:

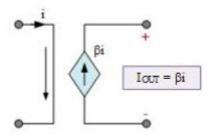
Options:

Cable covers

- Cable shoes
- Cable ends
- Cable bends

Question Number: 141 Question Id: 54335318485 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the circuit in the given figure.



Options:

- Voltage controlled voltage source
- Current controlled voltage source
- Voltage controlled current source
- 4 Current controlled current source

Question Number: 142 Question Id: 54335318486 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The Purpose of a shunt in an ammeter is to

Options:

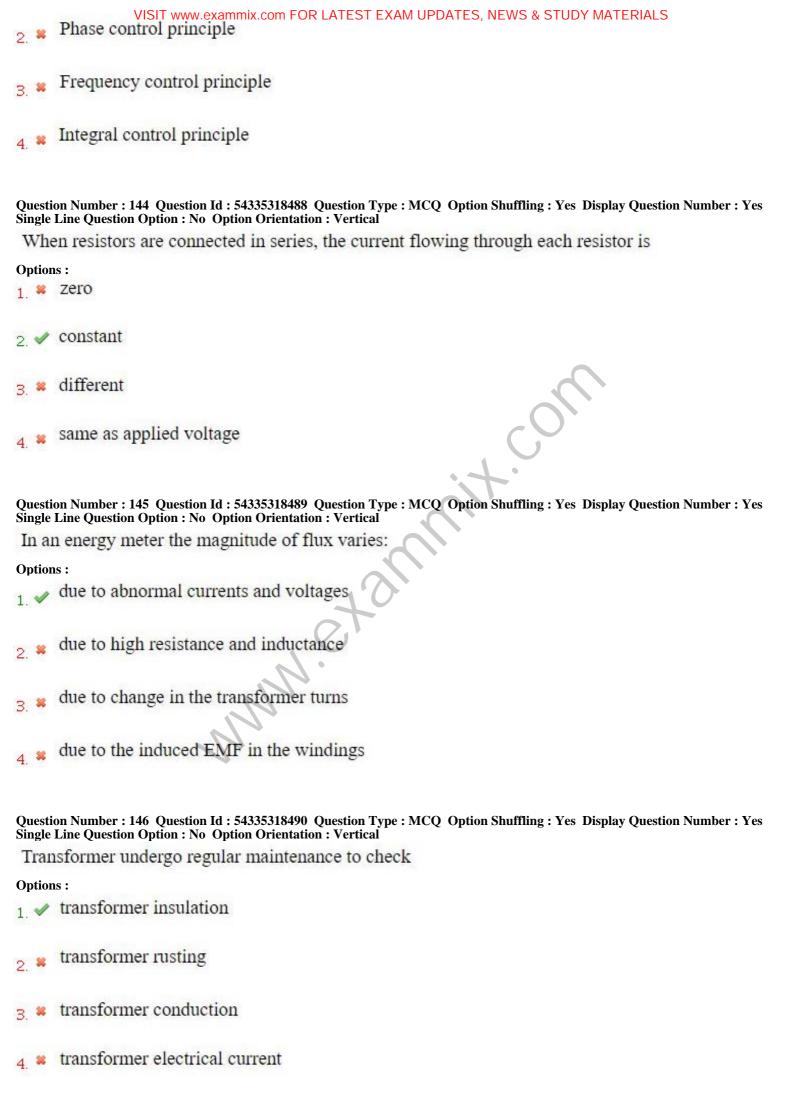
- Bypass the current
- Increase the resistance of the Ammeter
- Increase the sensitivity of the Ammeter
- Decrease the sensitivity of the Ammeter

Question Number: 143 Question Id: 54335318487 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The working of SMPS is based on:

Options:

1. Chopper principle



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Question Number: 147 Question Id: 54335318491 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following is true of a 3 - phase motor?

Options:

- It is self starting
- Star delta starting is required
- 3 * It has an auto transformer starter
- 4 It is self starting and running windings are required

Question Number: 148 Question Id: 54335318492 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

For speed control of a DC motor, which technique provides speed above base speed?

Options:

- 1 / Field control method
- Armature resistance control method
- Supply voltage control method
- Supply current control method

 $\label{eq:Question Number: MCQ Option Shuffling: Yes \ Display \ Question \ Number: Yes \ Single \ Line \ Question \ Option \ Orientation: Vertical$

For the grid synchronization maximum limit of phase angle is:

Options:

$$\frac{3}{3} * +/-25^{\circ}$$

Question Number: 150 Question Id: 54335318494 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

An example for integrating instrument is

Options:

voltmeter

2. 💸	VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Ammeter	
3. 🗸	ampere hour meter	
4. 🕷	wattmeters	
Question Number: 151 Question Id: 54335318495 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Battery balancing circuit enhances:		
Options:		
Option		
1. 38	temperature	
2. 🗱	concentration	
3. 💥	pressure	
4. 🗸	life of battery	
Single	ion Number: 152 Question Id: 54335318496 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Line Question Option: No Option Orientation: Vertical pole, 3 - phase IM operates from a supply with frequency 50 Hz. Calculate the speed at which the magnetic field	
of sta	ator rotates.	
Option		
1. 🗸	1500 rpm	
2. 📽	1440 rpm	
3. 💥	90 rpm	
4. *	600 rpm	
Questi Single	ion Number : 153 Question Id : 54335318497 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Line Question Option : No Option Orientation : Vertical	
The	performance of two value capacitor - run motor is characterized by	
Option		
- p 3101	its ability to start heavy loads	
1.	and the state of t	
2. 🛎	its requirement of low starting torques	
3. 🕷	Instant reversibility	

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS controllable motor speed

Question Number: 154 Question Id: 54335318498 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The motor used in water pump is:

Options:

- 1 / Induction motor
- DC motor
- Synchronous motor
- 4 Servo motor

Question Number : 155 Question Id : 54335318499 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

For which of the following reasons are lamps bright synchronisation preferred to lamps dark?

Options:

- Sharper and more accurate synchronisation
- Flickering is pronounced
- Brightness can be seen easily
- 4 * It can be performed quickly

Question Number: 156 Question Id: 54335318500 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The simplest method of underground cable installation is:

Options:

- direct burial
- 2 Semi direct burial
- a korizontal directional drilling
- pipe jacking

Question Number: 157 Question Id: 54335318501 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

In Indian households, single phase supply voltage is in the form of:

Options:

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Pulsed voltage Peak - to - Peak voltage RMS voltage DC voltage Question Number: 158 Question Id: 54335318502 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option : No Option Orientation : Vertical If operating current is between 10A to 100A, which device will be used for breaking the circuit safely? 1 * Bare Aluminum Wire Bare Copper Wire MCB Question Number: 159 Question Id: 54335318503 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical The expression used to calculate mass 'M' deposited in an electrolytic process is: MANNI **Options:** 1 * M = It / Z 2 ✓ M = ZIt M = Zt/IM = ZI / TQuestion Number: 160 Question Id: 54335318504 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Current Control Mode is used for . . Constant Battery Charging

Fast Battery Charging

Slow Charging

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Fluctuating Battery Charging

Question Number: 161 Question Id: 54335318505 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The dielectric strength of transformer oil per mm is expected to be:

Options:

- 1 * 1 kV
- 2 🖋 30 kV
- 3 × 100 kV
- 4 * 330 kV

Question Number: 162 Question Id: 54335318506 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Identify the Transformer winding conversion used for consumer distribution from the given options.

Options:

- Star to Delta
- Star to Star
- 3 🗱 Delta to Delta
- Delta to Star

Question Number: 163 Question Id: 54335318507 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

A spelter used in brazing is commonly made of

Options:

- opper base and silver alloy
- 2. * rosin Iron base and lead alloy
- 3. * Lead sulphide

Question Number: 164 Question Id: 54335318508 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The concept of back emf in DC motor is based on

Options:

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS 1. Lenz's law
2. * Ohm's law
3. * Kirchhoff's Current law
Faraday's law
Question Number: 165 Question Id: 54335318509 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
The colour of earth wire recommended for earth connection as per ISI code is:
Options:
1. * red
2. * black
3. * blue
4. ✓ green
Question Number: 166 Question Id: 54335318510 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Fusing element of a fuse is usually made of:
Options:
1. * iron
2. * mica
3. copper
4. * steel
Question Number: 167 Question Id: 54335318511 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Group of four bits is called as:
Options:
1. * byte
2. ✓ nibble
3. * bit

Question Number: 170 Question Id: 54335318514 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

During installation of a generator, one must carefully ensure that the generator terminals and all control wiring are correct so that the order of

Options:

- phases sequence
- frequency sequence
- power sequence
- amplitude sequence

Question Number: 171 Question Id: 54335318515 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

VISIT www.exammix.com FOR LATEST EXAM UPDATES, NEWS & STUDY MATERIALS Dilute sulphuric acid is used as an electrolyte in which of the following battery? **Options:** Carbon zinc Lithium Cells Nickle Cadmium 4 / Lead Acid Question Number: 172 Question Id: 54335318516 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical A battery is connected to a resistance of 20 Ω . If a current of 0.75 A has to be produced, what should be the EMF of the battery? **Options:** 1. * 30 V 2. V 15 V **20 V** 4 * 5 V Question Number: 173 Question Id: 54335318517 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Inter pole winding is connected in series with which one of the below? **Options:** Yoke Field winding Pole winding Armature winding Question Number: 174 Question Id: 54335318518 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Armature reaction of an unsaturated DC machine results in effect. 1. Cross - Magnetising Demagnetising

- Two pole Magnetising
- 4 * Axial Magnetising

Question Number: 175 Question Id: 54335318519 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Which of the following IE rule gives importance to restoration of persons suffering from electric shock?

Options:

- Energy meter Rule 38
- 2 Cut out Rule 44
- wind examinity. Coll Contactor Rule 46
- 4 Switch Rule 37