DSSSB
JE EE

Previous Year Paper 5th Nov 2019 shift 2


Section: Mental Ability
Q. 1 Choose the odd one from the given alternatives.

Ans
\1. PRT

- 2. SUV
<3. JLN
>4. TVX
Q. 2 Which of the following figure is exactly the mirror image of the question figure, when the mirror is held at $A B$ ?


Ans


JL22, OQ32, TV42, ?
Ans
X 1. YZ51
X 2. YB28

- 3. YA52

X 4. YZ52
Q. 4 Find the missing number from the given responses in the following question.

| 9 | 6 | 8 |
| :---: | :---: | :---: |
| 5 | 8 | 4 |
| 7 | 4 | $?$ |
| 11 | 2 | 7 |

Ans
<1.6
<2.7
ง 3.
>4.4
Q. 5 In the question below a statement followed by two courses of action numbered I and II is given. On the basis of the information given in the statement, you have to assume everything in the statement to be true, then decide which of the suggested courses of action logically follow(s) first pursuing.

Statement:
A huge fire broke out due to damage done to the gas pipeline While laying pipes for one of the utility companies.

Courses of action:
I. All the licenses of the utility companies should immediately be suspended pending enquiry into the incidence.
II. People residing in the area should be advised to stay indoors to avoid burn injuries.

Ans

1. If neither Course of Action (I) nor (II) follows
2. If either Course of Action (I) or (II) follows
3. If only Course of Action (I) follows
4. If only Course of Action (II) follows
Q. 6 Select the related letter group from the given alternatives.

YQ:VN:: KN:?
Ans
X1.HL
$\vartheta$
2. HK
>3. HJ
入4. GK
Q. 7 Which of the following interchanges of numbers would make the given equation correct?
$8 \times 20 \div 3+9-5=38$
Ans

1. 3,5
(2.8,9

X $3.3,9$
Q. 8 Which figure does not belong to the group in the following question?

Ans
$\times 1$.

$>2$



$>4$

Q. 9 In a certain code PROGRESS is written as ' 3 ' and DEVELOPMENT is written as ' 16 '.

How is MANAGEMENT written in that code?
Ans

<2. 6
Х 3.9
>4.8
Q. 10 A lady plans to visit five Stores to buy her stuff. The shops are Reebok, Puma, Addidas, HRX and Nike which she visits exactly once. She decided:
(i) She must visit Reebok before Puma and Nike.
(ii) She must visit Puma before HRX.
(iii) The third shop she visited must be Addidas which is just after Puma.

Which is the Fourth store she visited?
Ans
$X$ 1. Nike
$X$ 2. Puma
$\checkmark$
3. HRX or Nike

X 4. HRX
Q. 11 In this question given below which of the four option figures should come after the question figures, if the sequence were continued?


Ans
$\checkmark$

$>3$

Q. 12 Seven friends, P,Q, R, S T and U are sitting in a straight line facing north. Q sits fifth to the right of T. Q does not sit at any of extreme ends. Two people sit between $U$ and $R$. $S$ sits third to the left of V. S sits exactly in the middle. U is not an immediate neighbour of $P$.

How many people sit between R and V ?
Ans
>1. One
X
2. Three
3. Four
>4. Two
Q. 13 According to the following venn diagram how many people's hobby is dancing and reading and travelling but not playing cricket?


Ans
<1.9
X2. 11
v 3.10
> 4.12
Q. 14 Which of the following answer figure will complete the given figure?


Ans
$>1$.

$>2$

$>4$

Q. 15 Select a suitable figure from the four alternatives that would complete the figure matrix.


Ans

$\times 2$ (2)

4. ค管
Q. 16 In question below is given a statement followed by two assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement:
"Wanted a three bedroom flat in the court area for immediate possession"- an advertisement

Assumptions:
I. Flats are available in court area.
II. Some people will respond to the advertisement
III. It is a practice to give such an advertisement.

Ans
X1. None is implicit
$\gg$
2. Only I and II are implicit
3. Only II is implicit
4. All are implicit
Q. 17 Select the term that will come next in the following series.

FZ, IB,OF, XL, ?
Ans
<1.IT

- 2. JT

X3.JU
X4.IS
Q. 18 Four pair of words are given and three of them share a certain similarity. Choose the pair which is different from the other three.
Ans
(1. Right Livelihood Award: Environment
2. Sahitya Akademy Awards: Writing
3. Vyas Samman : English Literature

Х 4. R.D. Birla Award : Medical sciences
Q. 19 Which of the following is the water image of the question figure?

## VVLSFIWOP

* NAPYE'TMOB × ИАЧРЕГМОБ * ИАТВЕГМОБ * ИИТЧЕГМОБ

Godavari : Nasik :: Rapti :?
Ans
> 1. Varanasi
X 2. Kanpur
X3. Lucknow
4. Gorakhpur

## Section: General Awareness

Q. 1 Which of the following physical quantity is responsible for opening the lid of a bottle?

Ans
X 1. Velocity
\$ 2. Acceleration
v 3 . Torque
(4. Pressure
Q. 2 Which of the following is traditional folk theatre form of Maharashtra?

Ans
(1. Jatra

- 2. Tamaasha
( 3. Krishnattam
(4. Yakshagaana
Q. 3 Who originally built the Meenakshi Temple at Madurai?

Ans 1. Pulakeshin I
(2. Karikala Chola3. Kulashekarar Pandyan
4. Mahendravarman I
Q. 4 With which of the following sport sheesh mahal tournament is associated?

Ans

1. Boat racing

X 2. Badminton
> 3. Football

- 4. Cricket
Q. 5 In which of the following field, 'Fields medal' is given?

Ans
(1. Physics2. Mathematics
\$ 3. Architecture
4. Peace mission
Q. 6 Srikanth Kidambi is associated with which of the following fields?

Ans
<1. Dance
< 2. Science
X3. Music
$\checkmark$
4. Sports
Q. 7 Which article of Indian Constitution defines the money bill?

Ans
(1. Article 114
2. Article 1123. Article 116
4. Article 110
Q. 8 Who among the following is not a citizen of India according to Indian Constitution?

Ans

- 1

1. A person who has voluntarily acquired the citizenship of any foreign State
2. A person either of whose parents was born in the territory of India
3. A person who has been ordinarily resident in the territory of India for not less than
five years immediately preceding such commencement
4. A person who was born in the territory of India
Q. 9 Alvars were devotees of which Indian deity?

Ans
(1. Shakti
< 2. Shiva

- 3. Vishnu
(4. Brahma
Q. 10 Which of the following dam is not constructed on Chambal River?

Ans

- 1. Indira Sagar Dam
(2. Gandhi Sagar Dam

X 3. Jawahar Sagar Dam
(4. Rana Pratap Sagar Dam
Q. 11 What is the national sport of China?

Ans

1. Cricket
v 2. Table tennis
(3. Swimming
(4. Hockey
Q. 12 In acidic solution China rose indicator turns which of the following color?

Ans

Х 2. Green3. Magenta (Dark Pink)

X
4. Colorless
Q. 13 Under which dynasty Delhi became the capital of a Kingdom for the first time?

Ans

1. Tughluq Dynasty

X 2. Chauhans
3. Khalji Dynasty

- 4. Tomara Rajput
Q. 14 What kind of virus causes cancer?

Ans

- 1. Oncogenic virus

2. Variola virus
(3. Rubella virus
(4. Rhino virus
Q. 15 Who among the following is associatted with widow remarriage?

Ans

- 1. Ishwarchandra Vidyasagar
\$ 2. Jyotirao Phule
X 3. E.V. Ramaswamy Naicker
(4. Shri Narayana Guru
Q. 16 $\qquad$ are known as excludable goods.
Ans
X 1. Merit Goods
X 2. Demerit Goods3. Public Goods

X 4. Private Goods
Q. 17 Who is the author of the book 'The Coalition Years '?

Ans
(1. Shashi Tharoor
(2. Satya Nadella3. Pranab Mukharjee
4. Raghuram G Rajan
Q. 18 Jawadi hills are part of which of the following?

Ans

1. Eastern Ghat

Х 2. Arunachal Himalayas
X 3. Northwestern Himalayas
X 4. Western Ghat
Q. 19 Who is the present governor of Maharashtra?

Ans

1. Anandiben Patel2. C. Vidyasagar Rao
2. Lalji Tandon4. Mridula Sinha

## Question ID : 54592778210

Q. 20 $\qquad$ is defined as the market price of the good (p) multiplied by the firm's
output (q)
Ans
(1. Average revenue
2. Total revenue

X 3. Price Line
(4. Marginal revenue

## Section : Arithmetic Ability

Q. 1 The respective ratio of the marks of three students $A, B$ and $C$ is $3: 4: 6$. If average marks of $A$ and $B$ is 77 . Find the marks of $C$.
Ans
2. 125
< 3.88
<4. 102
Q. 2 A man's age is $125 \%$ of what it was 10 years ago, but $83 \frac{1}{3} \%$ of what it will be after 10 years.

His present age is:
Ans
7

1. 49 Years

Х2.51 Years3. 48 Years
4. 50 Years
Q. 3 In what ratio should water be mixed with wine, that costs Rs. 60 per litre, so that the price of the resultant mixture is Rs. 40 per litre?
Ans
<1.2:3
2. $3: 4$
3. $1: 2$4. $4: 5$
Q. 4 A train covers a certain distance in 50 minutes, if it runs at a speed of $48 \mathrm{~km} / \mathrm{hr}$ on an average. The speed at which the train must run so that time of journey becomes 40 minutes?

## Ans

<2. $40 \mathrm{~km} / \mathrm{hr}$
$3.60 \mathrm{~km} / \mathrm{hr}$
4. $20 \mathrm{~km} / \mathrm{hr}$
Q. 5 The ratio of the speeds of a boat in still water and the speed of the river is $3: 1$. The boat takes 45 minutes for a round trip journey. Find the distance of the whole trip if the speed of the stream is $4 \mathrm{~km} / \mathrm{hr}$.

Ans
Х 1.4 km
․ 2.16 km3. 8 km
4. 12 km
Q. 6 Given below is a bar graph showing the details of cars manufactured and sold by company "ABC Limited" for the period of 2010 to 2014. Study the graph carefully and answer the question.


In which year sale percentage was least?

Ans
X 1.2014
v 2.2012
X
3. 2011
< 4.2010
Q. 7 Study the following bar graph carefully to answer the given question. The graph shows the monthly income and expenditure of three persons $A, B$ and $C$.


Note: Savings = Income - Expenditure
The difference between the savings of $A$ and $C$ is what percentage less than that of savings of $B$ ?
Ans
X1. $16 \frac{2}{9} \%$

- 2. $22 \frac{2}{9} \%$

X 3. $33 \frac{1}{3} \%$
X 4. 25\%
Q. 8 Simplify the following expression.
$12624+15285-16234+90724+13381=?$
Ans
×1. 116784
2. 112564
3. 115780
4. 116850
Q. 9 If $\frac{a}{b}=\frac{2}{3}$, then the value of $5 a^{3}-2 a^{2} b: 3 a b^{2}-b^{3}$ is :

Ans
>1.32:29

- $2.16: 27$
>3.27:16
<4.34:19
Q. 10 Which of the following Fractions is the smallest?

$$
\frac{13}{14}, \frac{14}{15}, \frac{15}{16}, \frac{16}{17}
$$

Ans
>1. $\frac{16}{17}$
<2. $\frac{15}{16}$

X 3. $\frac{14}{15}$

- $4 . \frac{13}{14}$
Q. 11 If 40 percent of a number is 75 more than 20 percent of 1500 , the value of the number is:

Ans $\quad 1.912 .5$

- 2.937 .5
>3.952.5
入4.962.5
Q. 12 Monthly expenditures (in Rs.) of an average household on rent, food, clothing and other miscellaneous items are 1000, 1500, 350 and 750 respectively. If this information is presented with the help of a pie chart, then the angle for clothing is:
Ans
v 1.35
(2. $60^{\circ}$ WWW.ALLEXAMREVIEW.COM
<3.15 ${ }^{\circ}$4. $45^{\circ}$
Q. 1315 men or 18 women can complete a piece of work in 45 days. If 5 men and 6 women work together then the work will be completed in:
Ans
2. 75 days3. 48 days

4. $67 \frac{1}{2}$ days
Q. 14 Following pie chart shows the modes of transport for 1000 students of a regional college of engineering in Delhi.


The number of students who come college by car is what percent of the number of students who come by train:

Х 2.25 percent3. 200 percent
4. 400 percent
Q. 15 What is the greatest number that will divide 580 and 679 and leave remainders 4 and 7 respectively.
Ans
X1.16
$>2.8$
> 3.32
4. 96
Q. 16 In how many years will a sum of Rs. 1875 amount to Rs. 2187 at 8 percent p.a. compound interest?
Ans

- 1.2
>2.4
X 3.3
>4.1
Q. 17 A takes $5 \frac{1}{3}$ days and $B$ takes $8 \frac{1}{3}$ days more than the time taken by $A$ and $B$ together to complete a work. In
how many days will they finish the work together?
Ans

$$
\text { (1. } 3 \frac{1}{3}
$$

$\times 2.9 \frac{2}{3}$

- $3.6 \frac{2}{3}$
$\times 4.8 \frac{2}{3}$
Q.18 Rakesh bought some chocolates at 10 for Rs. 1.50 and an equal number at 20 paise each. He sold them at a rate of 20 for Rs. 4 and made a profit of Rs. 10. How many chocolates did he purchase?
Ans
> 1.100
v 2.400
\$3.300
>4. 200
Q. 19 Nitesh purchased a new Mobile for 30 percent discount. Had Nitesh got no discount, Nitesh would have had to pay Rs. 3000 more. How much did Nitesh pay for the Mobile?
Ans
- 1. Rs. 70002. Rs. 8500

X
3. Rs. 8000
4. Rs. 7500
Q. 20 Find the volume of a right circular cone formed by joining the edges of a sector of a circle of radius 4 cm where the angle of the sector is $90^{\circ}$.
Ans

$$
\text { 1. } \frac{2 \sqrt{3}}{\pi} \mathrm{~cm}^{3}
$$

2. $\frac{\pi \sqrt{5}}{\sqrt{3}} \mathrm{~cm}^{3}$

X 3. $\frac{12 \sqrt{3}}{\pi} \mathrm{~cm}^{3}$
X4. $\frac{2 \sqrt{2} \pi}{3} \mathrm{~cm}^{3}$

## Section : General English

Q. 1 Find out which part of the sentence has an error. If there is no error, mark your answer as 'No error'.

The table's wood (a) / is infested with mite and I (b) / am likely to dispose it of.(c) / No error(d).
Ans

1. The table's wood
< 2. No error
X 3 . is infested with mite and I
2. am likely to dispose it of.
Q. 2 Select the word which means the same as the group of words given.

Government by few or a small group of people.
Ans

- 1. Oligarchy
(2. Bureaucracy3. Ochlocracy

4. Aristocracy
Q. 3 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select option No substitution required.

We had been almost halfway there when the left rear tyre blew out.
Ans
(1. have been almost
$>2$
2. were going to be almost
(3. No substitution required
4. were almost
Q. 4 In the following question, there are six parts marked $\mathrm{S} 1, \mathrm{~S} 6, \mathrm{P}, \mathrm{Q}, \mathrm{R}$ and S . The position of S 1 and S 6 is fixed. Some parts of the sentence have been jumbled up. Rearrange these parts and choose the proper sequence from the given options.

S1. Two partridges (quail-like birds) lived in a certain tree in the jungle. While one of them lived on the branches, the other lived inside a hole at the foot of the tree.
P. One day, one of them went away with some more partridges in search of food.
Q. They became good friends, and they would spend long hours with each other telling each other stories and events of their lives.
R. In this manner, the partridges spent their time in happiness.

S . As was usual, when he did not return back even at sunset, the other partridge started worrying.

S6. He thought, "He has not done this ever. Why has the partridge not returned home today? Has been trapped by some hunter? Or maybe even killed? I cannot live without him. I am certain there is some reason why he has not returned even at nightfall."
Ans

1. QRPS
2. $S P R Q$
< 3. SPQR
ไ4. QRSP
Q. 5 Identify the incorrect sentence or sentences.
a. Tamil Nadu will be the most wired state from the perspective of e-learning.
b. At the core of Rs 20 crore project is a Knowledge Data Centre at the Anna

University.
c. The K.D.C. will house information in digital format.
d. It can be accessed by students through the state.

Ans
\$1. Only a
-f
2. b and d

X3. a and c
\$4. Only b
Q. 6 Select the most appropriate option to fill in the blank.

When light $\qquad$ through a spectroscope it breaks into bands of unique colours.
Ans
X 1. passed2. passing
3. passes
4. pass
Q. 7 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select option No substitution required.

The man spent a lot because he had so large amount of money.
Ans
X 1. he had a large lot of money
2. No substitution required
3. he had a large amount of money
4. he had a large number of money
Q. 8 Select the synonym of the given word.

## Morose

Ans
X 1. Delectable2. Meagre
-7. Gloomy4. Concealed

## Q. 9 Select the most appropriate option to fill in the blank.

You never know how much you rely on your friends $\qquad$ they are beyond your reach.

Ans
<1. still
2. in case
3. until
4. unless
Q. 10 Select the meaning of the given idiom.

To the backbone:
Ans

1. With flexibility
2. Farthest point
3. Thoroughly

X4. Physically
Q. 11 Select the meaning of the given idiom.

A bird's eye view:
Ans $>$ 1. Lacking clarity
X 2. A quick look
3. A general view
(4. Unrealistic
Q. 12 Select the antonym of the given word.

Proximity
Ans

1. Remoteness

Х 2. Expedite
X 3. Pardon
4. Adjacent
Q. 13 Out of the given four words only one is not spelt correctly. Find the word that is not correctly spelt.

Ans
(1. Judgement
2. Laboratory
3. Librality
4. Knowledge
Q. 14 In each of the questions given below, rearrange the parts of the sentence in the correct order, and choose the correct option.

When botanists endeavoured by means of the microscope P - to see the cells multiplying and producing actual growth

## Q - it was discovered that this phenomenon took place for the most part

 $\mathbf{R}$ - at night during the absence of lightAns
X 1.RPQ
<2. QRP
X3. RQP

- 4. PQR
Q. 15 Find the correctly spelt word.

Ans
(1. Assecment
2. Assessment

X 3. Asessment
(4. Asessmente

## Question ID : 54592778245

## Comprehension:

Read the passage carefully and choose the best answer to each question out of the four alternatives.

The word 'routine' is not a very adored term. It has often been substituted for anything that is ordinary or mundane. Routines are regular procedures and practices that are almost performed as second nature. If you look up the net there are even sites which help to get out of routines and make life more exciting. If you're bored with routines they can offer help.

Reality is a bit different though. In reality routines form the backbone of our lives. Traffic rules are routine but imagine one fine day we said, dump those rules. You can imagine the chaos. Which shoe do you wear first? The left or the right? Check next time, you've probably been doing it all your life (wearing the left or right first) without the slightest thought to it. Most of us marvel at Army marches. We are amazed how their legs and arms move in such synchronised manner. To them, that's routine. For us, it's a wonder. They have been trained for it and they practice it every day. It is in that sense that Secularism is a routine. Being a backbone of our lives, secularism needs to be maintained and practiced. Soldiers don't fight big battles with their marching skills. Do they? At best that routine organises them for the battle. In much similar fashion secularism by itself does not win any battles. But many of our fraudulent politicians have been selling this product (in a fake form). Excessive secularism, which feeds the fire of people who like to present India as a country that does not respect its majority, is just as dangerous as religious fundamentalism". This is the outcome of fake secularism practiced by all the parties.

Secularism demands that people be seen as one nation under one roof. Politicians may act divisively but why should media morons act divisively? And when rapped for such illegitimate behaviour all that these fools can do is cry abuse.

Secularism is a routine practice and not an issue on which any election should have ever been contested but the sickulars and the corrupt media have brought it down to this level. I consider myself a secular person but except for the media discussions or election season it doesn't cross my mind even once. People brush their teeth and have a bath every day. It makes them feel good, clean and freshened up. But that doesn't guarantee them luck, job or food. Routine hygiene is a "maintenance" job for the body. Secularism is a maintenance job for a society. It need not get any premium. No one deserves to be rewarded for being secular; certainly not with a vote.

SubQuestion No : 16
Q. 16 Out of the given options, which word can replace the word 'Moron' as used in the passage?

Ans
(1. Puppet
\$2. Sickulars

- 3. Fool
\$4. Gloomy


## Comprehension:

Read the passage carefully and choose the best answer to each question out of the four alternatives.

The word 'routine' is not a very adored term. It has often been substituted for anything that is ordinary or mundane. Routines are regular procedures and practices that are almost performed as second nature. If you look up the net there are even sites which help to get out of routines and make life more exciting. If you're bored with routines they can offer help.

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SubQuestion No: 17
Q. 17 In what sense secularism is a routine?

Ans 1. Secularism is simply a notion that is a lip service to the nation

- 2. Secularism demands that people be seen as one nation under one roof.
- 3. Secularism is a routine in a sense that it needs to be practiced and maintained

4. Secularism is a maintenance job for a society.

## Comprehension:

Read the passage carefully and choose the best answer to each question out of the four alternatives.

The word 'routine' is not a very adored term. It has often been substituted for anything that is ordinary or mundane. Routines are regular procedures and practices that are almost performed as second nature. If you look up the net there are even sites which help to get out of routines and make life more exciting. If you're bored with routines they can offer help.

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SubQuestion No : 18
Q. 18 According to the passage, what exactly is a routine?

Ans
< 1. Routine is a boring term used for an act repeated over a period of time
2. Routine is an everyday practice that puts people at ease since it provides a sense of consistency and repetition
3. They are regular procedures and practices that are performed as second nature
4. Routine is a safe haven for people who are averse to change

## Comprehension:

Read the passage carefully and choose the best answer to each question out of the four alternatives.

The word 'routine' is not a very adored term. It has often been substituted for anything that is ordinary or mundane. Routines are regular procedures and practices that are almost performed as second nature. If you look up the net there are even sites which help to get out of routines and make life more exciting. If you're bored with routines they can offer help.

Reality is a bit different though. In reality routines form the backbone of our lives. Traffic rules are routine but imagine one fine day we said, dump those rules. You can imagine the chaos. Which shoe do you wear first? The left or the right? Check next time, you've probably been doing it all your life (wearing the left or right first) without the slightest thought to it. Most of us marvel at Army marches. We are amazed how their legs and arms move in such synchronised manner. To them, that's routine. For us, it's a wonder. They have been trained for it and they practice it every day. It is in that sense that Secularism is a routine. Being a backbone of our lives, secularism needs to be maintained and practiced. Soldiers don't fight big battles with their marching skills. Do they? At best that routine organises them for the battle. In much similar fashion secularism by itself does not win any battles. But many of our fraudulent politicians have been selling this product (in a fake form). Excessive secularism, which feeds the fire of people who like to present India as a country that does not respect its majority, is just as dangerous as religious fundamentalism". This is the outcome of fake secularism practiced by all the parties.

Secularism demands that people be seen as one nation under one roof. Politicians may act divisively but why should media morons act divisively? And when rapped for such illegitimate behaviour all that these fools can do is cry abuse.

Secularism is a routine practice and not an issue on which any election should have ever been contested but the sickulars and the corrupt media have brought it down to this level. I consider myself a secular person but except for the media discussions or election season it doesn't cross my mind even once. People brush their teeth and have a bath every day. It makes them feel good, clean and freshened up. But that doesn't guarantee them luck, job or food. Routine hygiene is a "maintenance" job for the body. Secularism is a maintenance job for a society. It need not get any premium. No one deserves to be rewarded for being secular; certainly not with a vote.

SubQuestion No : 19
Q. 19 All except one is true according to the passage:

Ans 1. Secularism is not a maintenance job for the society.
2. Secularism is not an issue to form the basis of contesting an election.
3. Secularism being a backbone of our life needs to be practiced and maintained.
4. Absence of routine in our life will lead to chaos.

## Comprehension:

Read the passage carefully and choose the best answer to each question out of the four alternatives.

The word 'routine' is not a very adored term. It has often been substituted for anything that is ordinary or mundane. Routines are regular procedures and practices that are almost performed as second nature. If you look up the net there are even sites which help to get out of routines and make life more exciting. If you're bored with routines they can offer help.

Reality is a bit different though. In reality routines form the backbone of our lives. Traffic rules are routine but imagine one fine day we said, dump those rules. You can imagine the chaos. Which shoe do you wear first? The left or the right? Check next time, you've probably been doing it all your life (wearing the left or right first) without the slightest thought to it. Most of us marvel at Army marches. We are amazed how their legs and arms move in such synchronised manner. To them, that's routine. For us, it's a wonder. They have been trained for it and they practice it every day. It is in that sense that Secularism is a routine. Being a backbone of our lives, secularism needs to be maintained and practiced. Soldiers don't fight
big battles with their marching skills. Do they? At best that routine organises them for the battle. In much similar fashion secularism by itself does not win any battles. But many of our fraudulent politicians have been selling this product (in a fake form). Excessive secularism, which feeds the fire of people who like to present India as a country that does not respect its majority, is just as dangerous as religious fundamentalism". This is the outcome of fake secularism practiced by all the parties.

Secularism demands that people be seen as one nation under one roof. Politicians may act divisively but why should media morons act divisively? And when rapped for such illegitimate behaviour all that these fools can do is cry abuse.

Secularism is a routine practice and not an issue on which any election should have ever been contested but the sickulars and the corrupt media have brought it down to this level. I consider myself a secular person but except for the media discussions or election season it doesn't cross my mind even once. People brush their teeth and have a bath every day. It makes them feel good, clean and freshened up. But that doesn't guarantee them luck, job or food. Routine hygiene is a "maintenance" job for the body. Secularism is a maintenance job for a society. It need not get any premium. No one deserves to be rewarded for being secular; certainly not with a vote.

SubQuestion No: 20
Q. 20 What can be an appropriate title for the passage?

Ans
X 1. Divisive Secularism
2. Is secularism a reality?
( 3. Fake Secularism

- 4 . A fool's secularism


## Section : General Hindi

Q. 1 शब्द-युग्म के सही अर्थ-भेद का चयन कीजिए-
‘नाहर-नहर’
Ans

1. लकीर- सिंह
2. पानी की कुल्या- सिंह
3. सिंह- पानी की कुल्या
4. स्तर- पानी की नहर
Q. 2 क्रिया सामान्यतया वाक्य में $\qquad$ का कार्य करती है।

Ans

1. विधेय

X2. अव्यय
73. उद्धेश्य
(4. समास

## Q. 3 शुद्ध वर्तनी वाले शब्द का चयन कीजिए-

Ans
(1. निशेघ
2. प्रायोजन

- 3. स्ताव
( 4. शिल्पि
Q. 4 दिए गए वाक्य के लिए एक शब्द का चयन कीजिए-

Ans

1. आपादमस्तक
2. आधुनिकीकरण
3. आद्यांत
4. नवीकरणीय
Q. 5 किस वाक्य में विराम चिन्हों का सही प्रयोग नहीं किया गया है?

Ans

1. मैं यह नहीं जानता कि मैं क्या चाहता हूँ।
2. घूसखोरी नौकरशाही की सबसे बड़ी देन है न।
3. आपका नाम क्या है?
4. आप सम्भवत: कोलकाता के निवासी है?
Q. 6 निम्नलिखित में से स्त्रीलिंग शब्द का चयन कीजिए-

Ans 1. गजरा
2. माला
3. झूमर
4. हार
Q. 7 लोकोक्ति ‘ऊँट चढ़े पर कुत्ता काटे’' का अर्थ है-

Ans

- 1. भाग्य का खोटापन हर वक्त सताता है।

2. कुपात्र को उत्तम वस्तु मिलना
( 3. ऊँट पर कुत्ता चढ़ना
3. 4. अनाड़ी आदमी को बड़ों की नकल करके नुकसान उठाना
Q. 8 ‘कबूतर' का पर्यायवाची शब्द है-

Ans

1. पारावात

X2. अकिंचन
$X$ 3. कोंपल4. उलूक
Q. 9 ‘अधुनातन’ का विलोम शब्द है-

Ans

1. अशक्त

X2. आधुनिक
3. अनधिकृत
4. पुरातन
Q. 10 वाक्य प्रकार का चयन कीजिए-
‘मुझे पुस्तक चाहिए थी, पर इस गाईड से भी काम चल जाएगा।’
3. मिश्र वाक्य
4. विधिवाचक वाक्य
Q. 11 यदि दो पदो के बीच किसी परसर्ग(कारक-चिन्ह) की उपस्थिति लगे, तो वहाँ किस चिन्ह का प्रयोग किया जाना चाहिए?
Ans

1. योजक चिन्ह

X 2. विवरण चिन्ह
X 3 पूर्णविराम चिन्ह
4. विस्मयादिबोधक चिन्ह
Q. 12 मुहावरा ‘वारा न्यारा होना’ का अर्थ है-

Ans 1. व्याह होना2. लाभान्वित होना
3. बहुत लज्जा होना
4. दीवाला होना
Q. 13 निम्नलिखित में से कौन-सा तत्सम शब्द है?

Ans
Х1. बहनोई
2. बाजा

- 3 . बंध
(4. बोना
Q. 14 ‘कुपुत्र’ में कौन-सा समास है?

Ans

1. तत्पुरूष समास
2. द्विगु समास

X3. द्वन्दू समास

- 4. कर्मधारय समास
Q. 15 वाक्य प्रकार का चयन कीजिए-
'बच्चों से दौड़ा नही जाता।'
Ans

1. भाववाच्य
(2. कर्तृवाच्य
2. संयुक्त वाक्य
(4. कर्मवाच्य

## Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों का उत्तर दीजिए।
आर्थिक वृद्धि पर आयु का प्रभाव हमेशा ही बहस का विषय रहा है। युवा कामकाजी वर्ग में बढ़ोतरी किसी भी देश

की आर्थिक वृद्धि के लिए फायदेमंद होती है। संयुक्त राष्ट का अनुमान है कि अभी भारत की आबादी $1,342,763,001$ है। भारत दुनिया का सबसे युवा देश हो जाएगा, जिसमें माध्य आयु 29 वर्ष होगी। इस समय भारत का ‘जनांकिक लाभांश’ अनुकूल है, जिसका अर्थ है कि उसके पास जो श्रम शक्ति है, वह उस पर आश्रित जनसंख्या की तुलना में अधिक है। इस अनुकूल या सकारात्मक जनांकिकी लाभांश को विभिन्न कौशलों का प्रशिक्षण देकर मानव संसाधन में बदला जा सकता है।
इसी विचार के साथ प्रधानमंत्री नरेंद्र मोदी ने 2014 में 24 लाख युवाओं को प्रशिक्षित करने के लक्ष्य के साथ अलग से ‘कौशल विकास मंत्रालय’ का गठन किया और उसे 1,500 करोड़ रुपये की पूंजी दी गई। पहली बार किसी सरकार ने कौशल विकास मंत्रालय का गठन किया। 15 जुलाई, 2015 को मोदी जी ने पहले विश्व युवा कौशल दिवस पर स्किल इंडिया कार्यक्रम आरंभ किया। उन्होंने कहा, "आने वाले वर्षों में भारत दुनिया को श्रमशक्ति देने वाला सबसे बड़ा देश होगा।" पाना (स्पैनर) और पेंसिल पकडा़ हुआ हाथ कार्यक्रम का प्रतीक चिह्न है। यह कौशल के जरिये व्यक्ति के सशक्तिकरण को स्पष्ट रूप से दर्शाता है। कार्यक्रम का ध्येय वाक्य 'कौशल भारत, कुशल भारत' बताता है कि भारतीयों को कौशल प्रदान करने से राष्ट्र संपन्न बनेगा। कार्यक्रम को अंतरराष्ट्रीय स्तर पर सराहना मिली है; ब्रिटेन, जर्मनी, ऑस्ट्रेलिया, अमेरिका, कनाडा, सिंगापुर, यूरोपीय संघ, ईरान और बहरीन के साथ कौशल विकास के लिए विभिन्न सहमति पत्रों (एमओयू) पर हस्ताक्षर किए गए हैं। कार्यक्रम आरंभ होने के बाद से ही सरकार ने प्रयासों को दिशा देने के कई प्रयास किए हैं। 15 जुलाई 2015 को प्रधानमंत्री ने चार नई पहलों का उद्घाटन किया; राष्ट्रीय कौशल विकास अभियान, राष्ट्रीय कौशल विकास एवं उद्यमिता योजना 2015, प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई) और कौर्शल ऋण योजना। इन पहलों का उद्देश्य 2022 तक 40 करोड़ लोगों को विभिन्न कौशलों का प्रशिक्षण प्रदान करना है। इनमें से पीएमकेवीवाई स्किल इंडिया कार्यक्रम की रीढ़ है। यह कौशल विकास एवं उद्यमिता मंत्रालय (एमएसीई) की सबसे प्रमुख योजना है।

SubQuestion No: 16
Q. 16 उपर्युक्त गद्यांश के अनुसार मोदी जी ने पहले विश्व युवा कौशल दिवस पर स्किल इंडिया कार्यक्रम कब आरंभ किया था?
Ans $\times 1.25$ जुलाई, 2015
2. 15 जुलाई, 2017

- 3.15 जुलाई, 2015
X. 4.15 अगस्त, 2015


## Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों का उत्तर दीजिए।
आर्थिक वृद्धि पर आयु का प्रभाव हमेशा ही बहस का विषय रहा है। युवा कामकाजी वर्ग में बढ़ोतरी किसी भी देश की आर्थिक वृद्धि के लिए फायदेमंद होती है। संयुक्त राष्ट्र का अनुमान है कि अभी भारत की आबादी $1,342,763,001$ है। भारत दुनिया का सबसे युवा देश हो जाएगा, जिसमें माध्य आयु 29 वर्ष होगी। इस समय भारत का ‘जनांकिक लाभांश’ अनुकूल है, जिसका अर्थ है कि उसके पास जो श्रम शक्ति है, वह उस पर आश्रित जनसंख्या की तुलना में अधिक है। इस अनुकूल या सकारात्मक जनांकिकी लाभांश को विभिन्न कौशलों का प्रशिक्षण देकर मानव संसाधन में बदला जा सकता है।
इसी विचार के साथ प्रधानमंत्री नरेंद्र मोदी ने 2014 में 24 लाख युवाओं को प्रशिक्षित करने के लक्ष्य के साथ अलग से ‘कौशल विकास मंत्रालय’ का गठन किया और उसे 1,500 करोड़ रुपये की पूंजी दी गई। पहली बार किसी सरकार ने कौशल विकास मंत्रालय का गठन किया। 15 जुलाई, 2015 को मोदी जी ने पहले विश्व युवा कौशल दिवस पर स्किल इंडिया कार्यक्रम आरंभ किया। उन्होंने कहा, "आने वाले वर्षों में भारत दुनिया को श्रमशक्ति देने वाला सबसे बड़ा देश होगा।" पाना (स्पैनर) और पेंसिल पकड़ा हुआ हाथ कार्यक्रम का प्रतीक चिह्न है। यह कौशल के जरिये व्यक्ति के सशक्तिकरण को स्पष्ट रूप से दर्शाता है। कार्यक्रम का ध्येय वाक्य 'कौशल भारत, कुशल भारत' बताता है कि भारतीयों को कौशल प्रदान करने से राष्ट्र संपत्न बनेगा। कार्यक्रम को अंतरराष्ट्रीय स्तर पर सराहना मिली है; ब्रिटेन, जर्मनी, ऑस्ट्रेलिया, अमेरिका, कनाडा, सिंगापुर, यूरोपीय संघ, ईरान और बहरीन के साथ कौशल विकास के लिए विभिन्न सहमति पत्रों (एमओयू) पर हस्ताक्षर किए गए हैं। कार्यक्रम आरंभ होने के बाद से ही सरकार ने प्रयासों को दिशा देने के कई प्रयास किए हैं। 15 जुलाई 2015 को प्रधानमंत्री ने चार नई पहलों का उद्घाटन किया; राष्ट्रीय कौशल विकास अभियान, राष्ट्रीय कौशल विकास एवं उद्यमिता योजना 2015, प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई) और कौशे ऋण योजना। इन पहलों का उद्देश्य 2022 तक 40 करोड़ लोगों को विभिन्र कौशलों का प्रशिक्षण प्रदान करना है। इनमें से पीएमकेवीवाई स्किल इंडिया कार्यक्रम की रीढ़ है। यह कौशल विकास एवं उद्यमिता मंत्रालय (एमएसडीई) की सबसे प्रमुख योजना है।

SubQuestion No: 17
Q. 17 उपरोक्त गद्यांश के अनुसार ‘कौशल विकास मंत्रालय’ का गठन कर,उसे कितनी पूंजी दी गई थी?

Ans 1.150 करोड़ रुपये
2. 2015 करोड़ रुपये

X 3.2500 करोड़ रुपये
4. 1,500 करोड़ रुपये

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों का उत्तर दीजिए।
आर्थिक वृद्धि पर आयु का प्रभाव हमेशा ही बहस का विषय रहा है। युवा कामकाजी वर्ग में बढ़ोतरी किसी भी देश की आर्थिक वृद्धि के लिए फायदेमंद होती है। संयुक्त राष्ट्र का अनुमान है कि अभी भारत की आबादी
$1,342,763,001$ है। भारत दुनिया का सबसे युवा देश ही जाएगा, जिसमें माध्य आयु 29 वर्ष होगी। इस समय भारत का ‘जनांकिक लाभांश’ अनुकूल है, जिसका अर्थ है कि उसके पास जो श्रम शक्ति है, वह उस पर आश्रित जनसंख्या की तुलना में अधिक है। इस अनुकूल या सकारात्मक जनांकिकी लाभांश को विभिन्न कौशलों का प्रशिक्षण देकर मानव संसाधन में बदला जा सकता है।
इसी विचार के साथ प्रधानमंत्री नरेंद्र मोदी ने 2014 में 24 लाख युवाओं को प्रशिक्षित करने के लक्ष्य के साथ अलग से ‘कौशल विकास मंत्रालय’ का गठन किया और उसे 1,500 करोड़ रुपये की पूंजी दी गई। पहली बार किसी सरकार ने कौशल विकास मंत्रालय का गठन किया। 15 जुलाई, 2015 को मोदी जी ने पहले विश्व युवा कौशल दिवस पर स्किल इंडिया कार्यक्रम आरंभ किया। उन्होंने कहा, "आने वाले वर्षों में भारत दुनिया को श्रमशक्ति देने वाला सबसे बड़ा देश होगा।" पाना (स्पैनर) और पेंसिल पकड़ा हुआ हाथ कार्यक्रम का प्रतीक चिह्न है। यह कौशल के जरिये व्यक्ति के सशक्तिकरण को स्पष्ट रूप से दर्शाता है। कार्यक्रम का ध्येय वाक्य 'कौशल भारत, कुशल भारत' बताता है कि भारतीयों को कौशल प्रदान करने से राष्ट्र संपन्न बनेगा। कार्यक्रम को अंतरराष्ट्रीय स्तर पर सराहना मिली है; ब्रिटेन, जर्मनी, ऑस्ट्रेलिया, अमेरिका, कनाडा, सिंगापुर, यूरोपीय संघ, ईरान और बहरीन के साथ कौशल विकास के लिए विभिन्न सहमति पत्रों (एमओयू) पर हस्ताक्षर किए गए हैं। कार्यक्रम आरंभ होने के बाद से ही सरकार ने प्रयासों को दिशा देने के कई प्रयास किए हैं। 15 जुलाई 2015 को प्रधानमंत्री ने चार नई पहलों का उद्घाटन किया; राष्ट्रीय कौशल विकास अभियान, राष्ट्रीय कौशल विकास एवं उद्यमिता योजना 2015, प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई) और कौरल ऋण योजना। इन पहलों का उद्देश्य 2022 तक 40 करोड़ लोगों को विभिन्र कौशलों का प्रशिक्षण प्रदान करना है। इनमें से पीएमकेवीवाई स्किल इंडिया कार्यक्रम की रीढ़ है। यह कौशल विकास एवं उद्यमिता मंत्रालय (एमएसडीई) की सबसे प्रमुख योजना है।

SubQuestion No: 18
Q. 18 निम्नलिखित में से किस पहल का उद्घाटन 15 जुलाई 2015 को प्रधानमंत्री ने नही किया था?

Ans 1. राष्ट्रीय कौशल विकास अभियान
2. कौशल ऋण योजना
3. प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई)
4. आयुष्मान भारत योजना

## Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों का उत्तर दीजिए।
आर्थिक वृद्धि पर आयु का प्रभाव हमेशा ही बहस का विषय रहा है। युवा कामकाजी वर्ग में बढ़ोतरी किसी भी देश की आर्थिक वृद्धि के लिए फायदेमंद होती है। संयुक्त राष्ट का अनुमान है कि अभी भारत की आबादी $1,342,763,001$ है। भारत दुनिया का सबसे युवा देश हो जाएगा, जिसमें माध्य आयु 29 वर्ष होगी। इस समय भारत का ‘जनांकिक लाभांश’ अनुकूल है, जिसका अर्थ है कि उसके पास जो श्रम शक्ति है, वह उस पर आश्रित जनसंख्या की तुलना में अधिक है। इस अनुकूल या सकारात्मक जनांकिकी लाभांश को विभिन्न कौशलों का प्रशिक्षण देकर मानव संसाधन में बदला जा सकता है।
इसी विचार के साथ प्रधानमंत्री नरेंद्र मोदी ने 2014 में 24 लाख युवाओं को प्रशिक्षित करने के लक्ष्य के साथ अलग से ‘कौशल विकास मंत्रालय' का गठन किया और उसे 1,500 करोड़ रुपये की पूंजी दी गई। पहली बार किसी सरकार ने कौशल विकास मंत्रालय का गठन किया। 15 जुलाई, 2015 को मोदी जी ने पहले विश्व युवा कौशल दिवस पर स्किल इंडिया कार्यक्रम आरंभ किया। उन्होंने कहा, "आने वाले वर्षों में भारत दुनिया को श्रमशक्ति देने वाला सबसे बड़ा देश होगा।" पाना (स्पैनर) और पेंसिल पकड़ा हुआ हाथ कार्यक्रम का प्रतीक चिह्न है। यह कौशल के जरिये व्यक्ति के सशक्तिकरण को स्पष्ट रूप से दर्शाता है। कार्यक्रम का ध्येय वाक्य 'कौशल भारत, कुशल भारत' बताता है कि भारतीयों को कौशल प्रदान करने से राष्ट्र संपन्न बनेगा। कार्यक्रम को अंतरराष्ट्रीय स्तर पर सराहना मिली है; ब्रिटेन, जर्मनी, ऑस्ट्रेलिया, अमेरिका, कनाडा, सिंगापुर, यूरोपीय संघ, ईरान और बहरीन के साथ कौशल विकास के लिए विभिन्न्र सहमति पत्रों (एमओयू) पर हस्ताक्षर किए गए हैं। कार्यक्रम आरंभ होने के बाद से ही सरकार ने प्रयासों को दिशा देने के कई प्रयास किए हैं। 15 जुलाई 2015 को प्रधानमंत्री ने चार नई पहलों का उद्घाटन किया; राष्ट्रीय कौशल विकास अभियान, राष्ट्रीय कौशल विकास एवं उद्यमिता योजना 2015, प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई) और कौशल ऋण योजना। इन पहलों का उद्देश्य 2022 तक 40 करोड़ लोगों को विभिन्र कौशलों का प्रशिक्षण प्रदान करना है। इनमें से पीएमकेवीवाई स्किल इंडिया कार्यक्रम की रीढ़ है। यह कौशल विकास एवं उद्यमिता मंत्रालय (एमएसडीई) की सबसे प्रमुख योजना है।

## SubQuestion No: 19

Q. 19 उपरोक्त गद्यांश के अनुसार 15 जुलाई 2015 को प्रधानमंत्री ने कितनी नई पहलों का उद्घाटन किया था?
Ans $X$ 1. तीन
X 2. आठ
3. चार

X4. दस

## Comprehension:

दिए गए गद्यांश का ध्यानपूर्वक अध्ययन कर प्रश्नों का उत्तर दीजिए।
आर्थिक वृद्धि पर आयु का प्रभाव हमेशा ही बहस का विषय रहा है। युवा कामकाजी वर्ग में बढ़ोतरी किसी भी देश की आर्थिक वृद्धि के लिए फायदेमंद होती है। संयुक्त राष्ट्र का अनुमान है कि अभी भारत की आबादी $1,342,763,001$ है। भारत दुनिया का सबसे युवा देश हो जाएगा, जिसमें माध्य आयु 29 वर्ष होगी। इस समय भारत का ‘जनांकिक लाभांश’ अनुकूल है, जिसका अर्थ है कि उसके पास जो श्रम शक्ति है, वह उस पर आश्रित जनसंख्या की तुलना में अधिक है। इस अनुकूल या सकारात्मक जनांकिकी लाभांश को विभिन्न कौशलों का प्रशिक्षण देकर मानव संसाधन में बदला जा सकता है।
इसी विचार के साथ प्रधानमंत्री नरेंद्र मोदी ने 2014 में 24 लाख युवाओं को प्रशिक्षित करने के लक्ष्य के साथ अलग से ‘कौशल विकास मंत्रालय’ का गठन किया और उसे 1,500 करोड़ रुपये की पूंजी दी गई। पहली बार किसी सरकार ने कौशल विकास मंत्रालय का गठन किया। 15 जुलाई, 2015 को मोदी जी ने पहले विश्व युवा कौशल दिवस पर स्किल इंडिया कार्यक्रम आरंभ किया। उन्होंने कहा, "आने वाले वर्षों में भारत दुनिया को श्रमशक्ति देने वाला सबसे बड़ा देश होगा।" पाना (स्पैनर) और पेंसिल पकड़ा हुआ हाथ कार्यक्रम का प्रतीक चिह्न है। यह कौशल के जरिये व्यक्ति के सशक्तिकरण को स्पष्ट रूप से दर्शाता है। कार्यक्रम का ध्येय वाक्य 'कौशल भारत, कुशल भारत' बताता है कि भारतीयों को कौशल प्रदान करने से राष्ट्र संपन्न बनेगा। कार्यक्रम को अंतरराष्ट्रीय स्तर पर सराहना मिली है; ब्रिटेन, जर्मनी, ऑस्ट्रेलिया, अमेरिका, कनाडा, सिंगापुर, यूरोपीय संघ, ईरान और बहरीन के साथ कौशल विकास के लिए विभिन्न सहमति पत्रों (एमओयू) पर हस्ताक्षर किए गए हैं। कार्यक्रम आरंभ होने के बाद से ही सरकार ने प्रयासों को दिशा देने के कई प्रयास किए हैं। 15 जुलाई 2015 को प्रधानमंत्री ने चार नई पहलों का उद्घाटन किया; राष्ट्रीय कौशल विकास अभियान, राष्ट्रीय कौशल विकास एवं उद्यमिता योजना 2015, प्रधानमंत्री कौशल विकास योजना (पीएमकेवीवाई) और कौशर् ऋण योजना। इन पहलों का उद्देश्य 2022 तक 40 करोड़ लोगों को विभिन्र कौशलों का प्रशिक्षण प्रदान करना है। इनमें से पीएमकेवीवाई स्किल इंडिया कार्यक्रम की रीढ़ है। यह कौशल विकास एवं उद्यमिता मंत्रालय (एमएसडीई) की सबसे प्रमुख योजना है।

SubQuestion No: 20
Q. 20 उपरोक्त गद्यांश के अनुसार प्रधानमंत्री नरेंद्र मोदी ने 2014 में 24 लाख युवाओं को प्रशिक्षित करने के लक्ष्य के साथ किस मंत्रालय का गठन किया था?
Ans
ج1. श्रमशक्ति मंत्रालय
2. कौशल विकास मंत्रालय

Х3. उद्यमिता मंत्रालय
(4. सशक्तिकरण मंत्रालय

Section: Discipline1
Q. 1 In the circuit shown below the voltage across $100 \Omega$ resistance is:


Ans
<1.50 V
\$2. 100 V
>3. 60 V
4. 120 V
Q. 2 Current in A in an inductor is given by $10+10 t$ where $t$ is the time in seconds. If the self- induced emf in the coil is 20 mV , then its self- inductance is:
Ans
Х 1.10 mH
X2. 1 mH
$\vartheta$
3. 2 mH
< 4.20 mH
Q. 3 Equivalent resistance of the circuit shown below between $X$ and $Y$ :


Ans
X1.6
ง $2.9 \Omega$
X $3.18 \Omega$
> $4.12 \Omega$
Q. 4 Equivalent resistance seen between the terminals $a$ and $b$ for the circuit shown below is:


Ans
Х1.20 $\Omega$

- $2.4 \Omega$

X $3.25 \Omega$
X4.5 $\Omega$
Q. 5 Reciprocal of reluctance is:

Ans
< 1. Hysteresis
$\$$
2. Permeability3. Susceptibility
4. Permeance
Q. 6 An average voltage of 40 V is induced in a 1000 turn coil due to a change in flux which occurs in 0.5 seconds. The total flux change in webers is:
Ans

- 1.0 .02
>2. 0.05
X 3.0 .01
>4.0.04
Q. 7 Two filament lamps rated $200 \mathrm{~W} / 200 \mathrm{~V}$ and $50 \mathrm{~W} / 200 \mathrm{~V}$ are connected in series across a $200 \mathrm{~V}, 50 \mathrm{~Hz}$, ac supply. Then, the total power supplied by the source is:
Ans
X1.160 w
<2. 80 W3. 20 W

4. 40 W
Q. 8 A battery having an open circuit voltage of 2 V has a terminal voltage of 1 V when supplying a current of 5 A . Its internal resistance is:
Ans
Х1.0.6 $\Omega$2. $0.4 \Omega$
5. $0.2 \Omega$4. $0.1 \Omega$
Q. 9 An iron cored choke coil has an equivalent resistance of $4 \Omega$. It draws 10A from a single phase ac source of voltage $200 \mathrm{~V}, 50 \mathrm{~Hz}$. Then, power consumed by the coil and its power factor respectively are:
Ans
X1.200 W, 0.2 lag
6. $400 \mathrm{~W}, 0.2 \mathrm{lag}$

X 3. $200 \mathrm{~W}, 0.2$ lead
K $4.400 \mathrm{~W}, 0.2$ lead
Q. 10 Mutual inductance between two closely coupled coils is 2 H . Now, if the number of turns in one coil is reduced by 50 percent and those of the other coil is doubled then, new value of mutual inductance is:
Ans


X2.8H
X
3. 1 H
4. 4 H
Q. 11 In the circuit below, the value of resistance $R$ is:


Ans

- $1.20 \Omega$

X2. $30 \Omega$
X $3.10 \Omega$
X $4.40 \Omega$
Q. 12 A conductor 0.2 m long is carrying a current of 20 A at right angles to a magnetic field of 0.5 Tesla. What will be force on the conductor of the current is increased by 50 percent?
Ans
<1.1N
X2.4N
X 3.6 N
4. 3 N
Q. 13 When applied with a unidirectional voltage, an inductor behaves virtually like a:

Ans

1. Depends on the magnitude of voltage applied
v 2. Short circuit
X 3. Depends on the polarity of voltage applied
4 4. open circuit
Q. 14 A non- ideal current source of 25 mA is supplying a resistive load of $5 \mathrm{k} \Omega$. If the actual current flowing through the load is 20 mA , then the internal resistance of the source is:
Ans $>1.1 \mathrm{k} \Omega$
Х2. $10 \mathrm{k} \Omega$
X
$3.5 \mathrm{k} \Omega$
2. $20 \mathrm{k} \Omega$
Q. 15 Three resistances are connected in parallel. Total circuit current is 6A. Individual conductance of each parallel circuit are $G^{1}=1 S, G^{2}=3 S$ and $G^{3}=2 S$. Then, current through $\mathbf{G}^{3}$ is:
Ans
X1.4A
>2.1A
X3.6A
4.2 A
Q. 16 In the circuit shown below, the current drawn by the $6 \Omega$ resistor is $2 A$. then the value of resistance $R$ is:


Ans

- $1.9 \Omega$
<2. $18 \Omega$
入3.3 $\Omega$
Х4.6 $\Omega$
Q. 17 Find $V_{a}-V_{b}$ in the following part of a closed circuit where $V_{a}$ and $V_{b}$ are the potentials at $a$ and $b$.


Ans

* 1.10 V
>2.15 V
<3.5V

4. 20 V

## Question ID : 54592778287

Q. 18 Certain number of resistors having equal resistances offers an equivalent resistance of $1 \Omega$ when connected in parallel and $100 \Omega$ if they are connected in series. Then, the number of resistors and the resistance of each are $\qquad$ -.
Ans
<1.20,10 $\Omega$
<2
2. $5,20 \Omega$

Х $3.20,5 \Omega$
4. $10,10 \Omega$
Q. 19 RMS value of a half wave rectified symmetrical square wave current of 2 A is:

Ans
X1.2A
<2.1A
(3. $2 \sqrt{2}$
7. $4 . \sqrt{2}$

## Question ID : 54592778296

Q. 20 In the circuit below, the voltage across $9 \Omega$ resistor is:


Ans
入1.54V
X2.50V
X 3.75 V

- 4.45 V

Section: Discipline2
Q. 1 In a synchronous generator supplying power at rated voltage with zero power factor lagging, the effect of armature reaction ampere turns is:
Ans
-1. Demagnetising
\$ 2. Cross magnetising
X 3. Magnetising
4. Magnetizing and cross magnetising
Q. 2 Field system of an alternator is usually excited from:

Ans

1. Single phase ac voltage
(2. Square wave voltage

Х 3. Three phase ac voltage
Q. 3 Scott connected transformers can convert (a) three phase to two phase (b) two phase to three phase (c) two phase to four phase (d) three phase to four phase. From the above options correct answer is:
Ans
X 1. a and c
X 2. b and c
3. b and d
4. $a$ and b
Q. 4 Torque developed by a motor while running at 1000 rpm is $106 \mathrm{~N}-\mathrm{m}$ and the shaft torque available is $100 \mathrm{~N}-\mathrm{m}$. then the iron and mechanical losses in watts are:
Ans
>1.300 $\quad$ т
>2. 50 п

* $3.200 \pi$

入4. $100 \pi$
Q. 5 In a low power factor wattmeter compensating coil is connected:

Ans 1 . In series with the current coil
2. In series with the pressure coil

X 3. In parallel with the pressure coil
(4. In parallel with the current coil
Question ID : 54592778300
Q. 6 Loss of charge method is used for the measurement of:

Ans

1. High inductance

X 2. Low resistance
( 3. Low inductance
4. High resistance
Q. 7 During plugging of a three-phase induction motor:

Ans $>1$. Rotor circuit is opened

- 2. Phase sequence of the stator voltage is reversed

3. One phase of stator is short circuited
(4. Dc source is connected to stator
Q. 8 A transformer is supplying a unity power factor load. Power factor on primary side will be:

Ans
-1. About 0.95 lag
< 2. unity
7. About 0.95 lead
Q. 9 A dc shunt generator has a critical field resistance of $400 \Omega$ at 1200 rpm . Now if the speed of the generator is increased to 1800 rpm what is the change in the critical resistance?

Ans
Х 1. Increases to $900 \Omega$
X
2. Remains the same
3. Increases to $600 \Omega$

Х 4. Decreases to $267 \Omega$
Q. 10 A three phase star connected alternator develops an rms voltage of $\mathrm{V}_{1}$ per phase at the fundamental frequency. It also generates a third harmonic component whose rms value is $\mathrm{V}_{3}$. What is the line voltage of the alternator?
Ans

$$
\begin{aligned}
& \text { 1. } \sqrt{3\left(V_{1}^{2}+V_{3}^{2}\right)} \\
& \text { 2. } \sqrt{V_{1}^{2}+V_{3}^{2}} \\
& \text { 4. } \sqrt{V_{1}^{2}+V_{3}^{2}} \\
& 2\left(V_{1}^{2}+V_{3}^{2}\right)
\end{aligned}
$$

Q. 11 In hydro-electric plants the type of alternator used is:

Ans

1. Turbo generator
$\gg$
2. Non salient pole

- 3. Salient pole

4. Steam turbine generator
Q. 12 A current transformer has a phase error of +5 degree. The phase angle between the primary and secondary current is:

Ans
Х 1.5 degree
X2. 95 degree
ง 3.175 degree
X 4.85 degree
Q. 13 Ferranti effect on long overhead lines is experienced when:

Ans
(1. Power factor is unity

- 2. Line is lightly loaded

X 3 . Line is heavily loaded
\$4. Line is fully loaded
Q. 14 A 400 V three phase 50 Hz balanced source is supplying power to a balanced three phase load. Line current flowing through the load is 5A at a power factor angle of 30 degrees lagging. Reading of two wattmeters used to measure the load power are:
Ans
-1. 1000 W, 2000 W
X2. 2000 W, 4000 W
\$3. 2000 W, 3000 W
\$4. 1000 W, 3000 W
Q. 15 An industrial consumer has a load pattern of 2000 kW at 0.8 lagging for 12 hours and 1000 kW at unity power factor for 12 hours. Its load factor is
Ans
<1.0.6
<2. 0.8
<3.0.5

- 4.0 .75


## Question ID : 54592778315

Q. 16 Current flowing in a circuit is $i=(18+10 \sin \omega t+7 \sin 2 \omega t)$. A moving iron ammeter is connected in the circuit to measure this current. The reading of the meter will be approximately:
Ans
X1.28 A
X2.35 A
> 3.18 A
4. 20 A
Q. 17 Moving coil permanent magnet instrument can be used for the measurement of:

Ans
入1. AC and DC

- 2. DC only

X 3. AC only4. Half wave rectified DC
Q. 18 Form factor of sinusoidal ac signal is:

Ans

* 1.1 .11

Х2. 0.11
> 3.2 .11
>4.3.11
Q. 19 Voltage applied to a load is $100 \sqrt{2} \sin 500 t$. Current through the load is $10 \sqrt{2} \sin (500 t+\pi / 3)$. The power consumed by the load is:
Ans

- 1.500 W
>2. 200 W
X 3.1000 w
>4. 2000 w
Q. 20 A three-phase induction motor is running at 5 percent slip with certain load. If at this load the power input to the rotor is 2000 W , then the mechanical power developed by the motor is:

Ans
>1.2000 W
>2. 2100 W
X 3.1700 W
4. 1900 W

Section : Discipline3
Q. 1 In a particular circuit, a coil having a self- inductance of 2 H is required to carry a current of 4 A . A capacitor rated for 400 V is used across the coil in order to prevent sparking during breaking of the circuit. The value of capacitor needed is:
Ans
> $1.120 \mu \mathrm{~F}$
>2. $100 \mu \mathrm{~F}$
X $3.400 \mu \mathrm{~F}$
4. $200 \mu \mathrm{~F}$

## Question ID : 54592778334

Q. 2 Unit of reluctance is:

Ans
>1. Henry
2 2. weber
X 3. Weber $/ \mathrm{m}^{2}$
4. $(\text { Henry })^{-1}$
Q. 3 In a transmission system if $\mathbf{V}$ is the transmission voltage, weight of copper needed is proportional to $\qquad$ —.
Ans


- $2.1 / V^{2}$

X $3 . \mathrm{v}^{2}$4. 1/V
Q. 4 Cost of power generation will be low if:

Ans $\quad$ 1. Load factor is low and diversity factor is high
2. Load factor is high and diversity factors is low
3. Load factor and diversity factor are low
4. Load factor and diversity factor are high
Q. 5 Energy produced in a power station is 1440 MWh per day. What is the maximum demand of the station if its load factor is 0.5 ?
Ans
v1.120 MW
< 2. 280 MW

Х 3.60 MW
>4. 140 MW

Question ID : 54592778332
Q. 6 Sag of the conductors of a transmission line is 2 m when the span is 200 m . Now if the height of the supporting tower is increased by 25 percent sag will $\qquad$ -.
Ans

1. Increase by 25 percent
2. Reduce by 25 percent
3. Reduce by 12.5 percent
4. Remains unchanged
Q. 7 In dielectric heating current flows through $\qquad$ —.
Ans
X
5. Ionic discharge between dielectric medium and metallic conductor.
6. Metallic conductor3. air
7. dielectric
Q. 8 A motor has to be selected for following load cycle. Load uniformly rising from zero to 100 hp in 10 minutes after which it is constant at 100 hp for the next 10 minutes,
followed by no load period of 30 minutes. Suitable size of continuous rated motor is:
Ans
ج1. 100 hp
\$2.25 hp3. 50 hp
\$4. 200 hp
Q. 9 Gain of a buffer amplifier is:

Ans 1. Dependent on the circuit parameters2. unity
(3. infinity
\$4. zero
Q. 10 The most economical method of electric braking is:

Ans

1. dynamic braking with separate excitation
2. dynamic braking with self -excitation
(3. Plugging
3. Regenerative braking
Q. 11 Voltage of a bus can be controlled by controlling the $\qquad$ .
Ans
X 1. Apparent power of the bus
4. Active power of the bus
5. Reactive power of the bus
6. Apparent power and phase angle
Q. 12 The transistor configuration that is most commonly used as a switching device is:

Ans
\$1. Common base2. Common emitter
3. Common collector
\$4. Common emitter shorted
Q. 13 A three phase 4 wire system is commonly used for $\qquad$ -.
Ans
(1. Primary distribution
2. Primary transmission

- 3. Secondary distribution
\$4. Secondary transmission
Q. 14 An elevator drive is required to operate $\qquad$ -.
Ans

1. Three quadrants

X 2. Two quadrants
ง 3
3. All four quadrants
4. One quadrant only
Q. 15 Bundled conductors are mainly used in HV transmission line to $\qquad$
Ans
X 1. Reduce sag
2. Increase the mechanical strength of line
( 3. Reduce transmission line loss
4. Reduce corona
Q. 16 A lamp takes 5 A at 250 V and emits 8000 lumens. Its MSCP is:

Ans $\mathbf{X 1}^{2} 2000$ п
>2. $1400 \pi$
v $3.2000 / \pi$
X4. 1250 m
Q. 17 Surge impedance loading of a lossless 400 kV three phase 50 Hz overhead line of average surge impedance of $400 \Omega$ is:
Ans
K1.200 MW
2. 2.400 MW

X 3. 1600 MW
>4.100 MW
Q. 18 If $L_{1}$ is the total inductance when two mutually coupled coils are connected in series such that mutual inductance is aiding the self- inductance and $\mathrm{L}_{2}$ is the total inductance when connected in series opposition, then mutual inductance between them is given by:

Ans
X ${ }_{1}\left(L_{1}-L_{2}\right) / 2$
X2. $\left(L_{1}+L_{2}\right) / 2$
X 3. $\left(L_{1}+L_{2}\right) / 4$
4. $\left(L_{1}-L_{2}\right) / 4$
Q. 19 In the circuit shown below 18 V zener diode has zero zener resistance and a knee current of 2 mA . The minimum value of R so that voltage across it does not fall below 18 V is:


Ans
ข $1.1000 \Omega$

Х2.500 $\Omega$
Х $3.9000 \Omega$
X4.2000 $\Omega$
Q. 20 Bulk power transmission over long HVDC lines is preferred because of:

Ans
入1. No harmonics
X 2. Low cost HVDC terminals
X 3. Simple protection
v 4. Minimum line power loss

## Section : Discipline4

Q. 1 What is the energy stored in 1 second in an inductor while carrying a current $\mathrm{i}=20+$ 10 t where t is the time in seconds if the electro motive force induced in the coil due to self-induction is 40 mV ?

Ans $\square$
>2.0.45J
Х 3.0 .9 J
<4.1.2J
Q. 2 Power dissipated in the circuit given is 9 W . Value of E will be:


Ans
X1.2V
X2.4V

- 3.6 V

X4.8V

## Question ID: 54592778342

Q. 3 A three- phase delta connected symmetrical load consumes 3000 W of power from a balanced supply. If the same load is connected in star to the same supply then power consumption will be:

Ans
$\times 1.3000 / \sqrt{3}$
X2. $3000 / \sqrt{2}$
\$3.3000w

- 4.1000 W
Q. 4 A RLC series circuit has a resistance of $1 \mathrm{k} \Omega$. Its half power frequencies are 10 and 90 kHz . Quality factor of the circuit is:

Ans
>1. 434692. 43532

入3.43593
X 4.43467
Q. 5 A current of $i=-6+8 \sqrt{2} \sin (\omega t+30)$ is passed through a center zero PMMC meter and a moving iron meter. The two meters will read:
Ans
>1.6A, 10 A
Х2. $-6 \mathrm{~A}, 8 \mathrm{~A}$

- 3. $-6 \mathrm{~A}, 10 \mathrm{~A}$
>4.6A,8A
Q. 6 The circuit shown is used to measure the power consumed by the load. Resistance of the current and potential coils of the wattmeter are $0.02 \Omega$ and $1000 \Omega$ respectively. With this circuit measured power compared to load power will be:
Ans
\$1.2 percent less
< 2.4 percent more
Х3.4 percent less

4. 2 percent more
Q. 7 When a unit impulse voltage is applied to an inductor of 4 H , energy supplied by the source is:

Ans
4.1 J
Q. 8 In the circuit shown the switch is opened at $t=0$ after having been closed for a long time. Current through the resistor for $\mathrm{t} \boldsymbol{>} \mathbf{0}$ is given by:


Ans
$X 1.4 e^{-50 t}$
X2. $5 e^{-50 t}$

- 3. $4 e^{-120 t}$

X4. $3 e^{-120 t}$
Q. 9 If all the sequence voltages at the fault point in a power system are equal, then the fault is a $\qquad$ —.

Ans

1. Line to ground fault

X2
2. Three phase fault
3. Double line to ground fault
(4. Line to line fault
Q. 10 Relative permeability is less than 1.0 in case of:

Ans

- 1 . Dia-magnet material

2. Non-ferrous material
(3. Ferro-magnet material
< 4. ferrites
Q. 11 What will the zero-sequence current when line to ground fault occurs and the current in faulted phase is 300 A ?
Ans

- 1.100 A

ج2.300 A
> 3.50 A
>4.150 A
Q. 12 Two coils having self- inductance of 10 mH and 15 mH give an effective inductance of 20 mH when connected in series opposition. What will be the effective inductance if they are connected in series aiding?
Ans
> 1.80 mH
2. 2.30 mH
< 3.60 mH
Q. 13 For a fully transposed transmission line $\qquad$ -.

Ans 1. Negative and zero sequence impedances are equal.
2. Positive and zero sequence impedances are equal
$\times$
3. Positive, negative and zero sequence impedances are equal.
4. Positive and negative sequence impedances are equal.
Q. 14 A long wire carrying a certain current produces a magnetic field of 0.8 Tesla at a distance 0.5 cm . Then magnetic field at a distance of 1 cm is:

Ans
X 1. 0.16 Tesla
> 2. 0.2 Tesla
Х 3. 0.8 Tesla
4. 0.4 Tesla

## Question ID : 54592778337

Q. 15 For a fixed receiving end and sending end voltages in a transmission system, locus of constant power is a $\qquad$ _.

Ans

1. Straight line2. ellipse
2. circle

X 4. parabola
Q. 16 A 200 V single phase ac source is connected to a load with an impedance of magnitude $10 \Omega$ and phase angle +60 degrees. A capacitor is connected across the load and supplies 1000 Var. The real power supplied by the source is:
Ans
1.2000 W
X2. 4000 W
$\times 3.1000 \mathrm{~W}$
$\times 4.3000 \mathrm{~W}$
Q. 17 A two terminal network is connected to a resistive load whose resistance is equal to

Norton resistance of the network. What will be the load current if Norton current is $\mathrm{I}_{\mathrm{n}}$ ?
Ans
X $1.2 \mathrm{I}_{\mathrm{n}} / 3$

- $2 . I_{n} / 2$

X3. $21_{n}$
>4. $\mathrm{In}_{n}$
Q. 18 Energy stored in an iron cored coil is 500 Joules when carrying a certain current and at that current its copper loss is 1000 W . Time constant of the coil in seconds is:
Ans

<2.2
3. 1

Q． 19 In the circuit shown below power delivered by the source is：


Ans

## Question ID ： 54592778344

Q． 20 A shunt resistance of $50 \Omega$ is required for extending the range of an ammeter from 100 to $500 \mu \mathrm{~A}$ ．the value of internal resistance of the ammeter is：
Ans
＞1．400 $\Omega$
ง $2.200 \Omega$
入3．800 $\Omega$
入4． $100 \Omega$

## Section：Discipline5

Q． 1 A $720 \mathrm{kVA}, 240 \sqrt{ } 3 \mathrm{~V}$ ，star connected synchronous machine generates rated open circuit voltage at a field current of 20 A ．A field current of 10 A produces rated armature current under short circuit condition．Per unit saturated synchronous reactance is：
Ans
＜1．2
2． 0.5
＜3．0．4
＜4．1．5

Q． 2 A heater operated from a $250 \mathrm{~V}, 50 \mathrm{~Hz}$ single phase supply consumes 2.5 kWh in one hour．If it is now connected to a square wave generator of 400 V peak to peak voltage and frequency 150 Hz the power dissipated by the heater will be：
Ans
ง 1.1 .6 kW
＜2． 2.8 kW
X 3.3 .2 kW
Х4．6．4 kW

Q． 3 The locked rotor current in a three－phase star connected $15 \mathrm{~kW}, 4$ pole， $250 \mathrm{~V}, 50 \mathrm{~Hz}$ induction motor at rated conditions is 50 A ．Neglecting losses what will be the locked current when motor is connected to $240 \mathrm{~V}, 60 \mathrm{~Hz}$ supply is：
Ans
＞1．48 A
X
2． 52 A
<4.50 A
Q. 4 For a transmission line with resistance $R$ and reactance $X$ and negligible capacitance generalized constant $A$ is:
Ans $\square$
(2. R-jX

X $3 . R+j X$
Х4.0
Q. 5 A dc potentiometer is designed to measure up-to about 2 V with a slide wire of 1600 m . Standard cell of emf 1.2 V balances at 1200 mm . a test cell is seen to balance at 1400 mm . the emf of the test cell is
Ans
>1.1.1 V
X2.1.2V
>3.1.7V
ง 4.1 .4 V

## Question ID : 54592778358

Q. 6 An amplifier circuit has a voltage gain of 500 . If the output voltage is 5 V , then the input voltage is:
Ans
> $1.1 / 2500 \mathrm{~V}$
X2. 2500 V
X 3.100 mV

- 4.10 mV
Q. 7 In a three-phase induction motor regenerative braking occurs when:

Ans - 1. Load is lowered by a hoisting machine
(2. Motor speed falls due to overload.

X 3. Load is raised by a hoisting machine
Х4. Number of poles is reduced in a pole changing machine
Q. 8 A three-phase slip ring induction motor develops full load torque at a slip of 0.04 when the slip rings are short circuited. If the rotor resistance is increased 3 times by inserting external resistance in the rotor circuit, then the slip will be:
Ans
>1.0.04
$>2$
2. 0.01
3. 0.12
$>$
4. 0.06
Q. 9 For heating non conducting materials following heating method can be used:

Ans $\quad$ 1. Induction heating
2. Dielectric heating
Q. 10 In a center tap full wave rectifier, if the peak voltage applied between the center tap and one of the secondary 200 V , then the reverse biased diode is applied with a maximum voltage of:
Ans
>1.200 V
\$2. 100 V
X3.200V2 V
v 4.400 V
Q. 11 The dc base bias voltage of a npn transistor made of silicon is 10 V and input base resistor is $100 \mathrm{k} \Omega$. then the value of base current into the transistor
Ans
>1.9.3 $\mu \mathrm{A}$
>2. $0.93 \mu \mathrm{~A}$
X $3.930 \mu \mathrm{~A}$
ง $4.93 \mu \mathrm{~A}$

## Question ID : 54592778373

Q. 12 A $10 \mathrm{kVA}, 400 / 200 \mathrm{~V}$ single phase transformer with resistance 4 percent and reactance 6 percent supplies a current of 50 A a resistive load. Voltage across the load is:
Ans
X 1.190 V
ج2.188 V
v 3.192 V
X4.194V
Q. 13 A $150 \mathrm{~kW}, 1200 \mathrm{rpm}, 240 \sqrt{ } 3 \mathrm{~V}$, three phase delta connected synchronous motor has synchronous reactance of $1 \Omega$ per phase. if the excitation voltage is fixed at 400 V per phase, power output at a torque angle of 30 degrees is:
Ans
X1.75 kW
>2.25 kW
入 3.87 kW

- 4.50 kW
Q. 14 Two insulator discs of identical capacitance value $C$ makes up a string for $2.2 \mathrm{kV}, 50 \mathrm{~Hz}$ single phase overhead line insulating system. If the pin to earth capacitance is also C, then string efficiency is:
Ans
- 1.75 percent

X
2. 50 percent

X 3.80 percent
< 4.90 percent
frequency. When the total load supplied is 1000 MW , what is the system frequency if the operation is lossless.
Ans
\$1. 58 Hz
2. 44.66 Hz
>3. 52.4 Hz
Х 4.48 Hz
Q. 16 A voltmeter connected across $15 \mathrm{k} \Omega$ resistor reads 10 V in the circuit given. Voltmeter is rated at $500 \Omega /$ volt and has a full- scale reading of 20 V . The supply voltage is:


Ans

- 1.60 V
>2.45 V
X 3.30 V
>4.90 V
Q. 17 The inductance of a single phase two wire power transmission line per km gets doubled when the $\qquad$ _.

Ans
X 1. Distance between the wires is increased four- fold
v 2. Distance between the wires is increased as the square of the original distance
X 3. Distance between the wires is doubled
Х4. Radius of the wire is doubled
Q. 18 A generating station has an installed capacity of $\mathbf{4 0 0}$ MW. Plan capacity factor is 0.6 and annual load factor is 0.8. capital cos is Rs $10^{10}$ and annual running charges are Rs $10^{9}$. What is the cost per unit generated if the annual interest and depreciation is 20 percent?
Ans
X1. 42 paise
X2. 242 paise
X3. 14.2 paise
4. 142 paise
Q. 19 In order to minimize the inrush current in a single-phase transformer, the supply switch should be closed at the instant when:

Ans X 1. supply voltage is $\frac{1}{2}$ times the maximum voltage $X$ 2. supply voltage is $\frac{1}{\sqrt{2}}$ times the maximum voltage

- 3. supply voltage is maximum

4. supply voltage is zero
Q. 20 A light source having an intensity of 400 candle power is fitted with a reflector so that it directs 70 percent of its light along a beam having a divergence angle of 5 degrees. Total flux emitted along the beam is:

Ans
X1.1600/m
v $2.1120 \pi$
X $3.1600 \pi$
>4.1120/m

