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GSECL
Vidyut Sahayak
Plant Attendant
Previous Year Paper
(Electrical) 01 Jul 2018



Examination: Vidyut Sahayak - Plant Attendant Gr.I - Electrical

GUJARATI LANGUAGE AND GRAMMAR - GUJARATI LANGUAGE AND GRAMMAR

Question No.1

1.00

Bookmark

નીચેમાંથી નિદેશર્થ વાક્ય ક્યું છે ?

- વરસાદના દિવસો આવી ગયા છે - (Alternative 1)
- વરસાદના દિવસો જલ્દી આવશે એવું લાગે છે - (Alternative 2)
- હવે તો વરસાદના દિવસો આવવા જોઈએ - (Alternative 3)
- વરસાદના દિવસો આવે તો સારું - (Alternative 4)

Question No.2

1.00

Bookmark

એક જ અર્થધટન કરતી કેટલી કહેવતો નીચેના ઉદાહરણ તરીકે આપવામાં આવી છે?

- 1. પારકે ભાણો મોટો લાડુ
- 2. દૂરથી હુંગર રળિયામણાં
- 3. માથા કરતાં પાંઘડી મોટી
- 4. આપકી લાપસી
 - કુલ 2 - (Alternative 2)
 - માત્ર 1 - (Alternative 1)
 - કુલ 3 - (Alternative 3)
 - કુલ 4 - (Alternative 4)

Question No.3

1.00

Bookmark

આજા' શબ્દ ને તદ્દિત પ્રત્યય લગાડતાં કયો શબ્દ બને?

- આજાણુ - (Alternative 1)
- આજાધીન - (Alternative 2)
- આજાકારી - (Alternative 3)
- અનુણા - (Alternative 4)

Question No.4

1.00

Bookmark

ભલે કુશળ હોય પણ વધુ સંખ્યામાં લોકો ભેગા થાય તો કામ બગડે - ના અર્થ ની મૂળ કહેવત કઈ?

- જાકા હાથ રળિયામણા - (Alternative 2)
- જાગી સુચાણીએ વેતર વઠે - (Alternative 1)
- રાત થોડીને વેશ જાકા - (Alternative 3)
- એકને હાથે કામ સારું થાય. - (Alternative 4)

Question No.5

1.00

Bookmark

રૂબરૂ મણ્યા તુલ્ય માની પધારશોજુ અને હું કેવળ તમારા માન ખાતર જ આવીશ.' આપેલ ઉદાહરણમાં ક્યા ક્યા નિપાત નો ઉપયોગ કરાયો છે.

- ભારવાચક, સીમાવાચક, વિનયવાચક - (Alternative 2)
- સીમાવાચક, ભારવાચક, વિનયવાચક - (Alternative 1)
- વાક્યમાં માત્ર કોઈ નિપાત છે જ નહીં. - (Alternative 3)
- વિનયવાચક, સીમાવાચક, ભારવાચક - (Alternative 4)

Question No.6

1.00

Bookmark

જ્યાં જ્યાં નજર મારી છરે, યાદી ભરી ત્યાં આપની. પંક્તિમાં કુલ આટલા છંદ/ છંદો નો ઉપયોગ કરાયો નથી.

- 1. ચોપાઈ છંદ
- 2. શિખરિણી છંદ
- 3. વસંતતિલકા
- 4. હરિગીત છંદ

- 1,2 અને 3 - (Alternative 1)
- 3 અને 4 - (Alternative 2)
- 2 અને 4 - (Alternative 3)
- માત્ર 4 - (Alternative 4)

Question No.7

1.00

Bookmark

ધરતી પર વરદાનની જેમ ચાંદની ઉભરી રહી છે, વૃક્ષો આતુઓની રાહ જોતાં રહે છે . અહીં ક્યા ક્યા અલંકારો નો ઉપયોગ કરાયો છે?

- ઉપમા અને સંજીવારોપણ અલંકાર - (Alternative 3)
- ઉત્પ્રેક્ષા અને ઉપમા અલંકાર - (Alternative 2)
- એક પણ નહિ - (Alternative 4)
- રૂપક અલંકાર - (Alternative 1)

Question No.8

1.00

Bookmark

ભાવવાચક અને વ્યક્તિવાચક, બચે સંશા સહિતનું ઉદાહરણ આપેલ વિકલ્પોમાંથી ક્યું છે?

- અમિતને મળેલી નિષ્ફળતા એ જાણે તેને હતાશામાં કેદ કરી લીધો હતો. - (Alternative 2)
- તેણે આવેશમાં કઢીર નિષ્ણય લઈ લીધો હતો. - (Alternative 1)
- ઝેર તો પીવા પડે છે જાણી જાણી, પણ પરિવર્તન જ આ જગતનો નિયમ છે. - (Alternative 4)
- લોકોનું ટોણું હિંસક થયું પણ હર્ષદભાઈ માત્ર જોતા જ રહ્યાં. - (Alternative 3)

Question No.9

1.00

Bookmark

નીચેના પૈકી કયો વિકલ્પ 'નિનાદ' નો સમાનાર્થી નથી ?

- શાંત - (Alternative 1)
- અવાજ - (Alternative 2)
- ધ્વનિ - (Alternative 3)
- રવ - (Alternative 4)

Question No.10

1.00

Bookmark

નીચે માંથી કયો શબ્દ 'અરસ્ત' નો સમાનાર્થી છે?

- એક પ્રકારના વર્સ્ટો - (Alternative 4)
- ફેકીને મારવાનું વાનું હથિયાર - (Alternative 3)
- આનાથી દાડી કરાય - (Alternative 2)
- હાથમાં પકડી ને વાપરવાનું હથિયાર - (Alternative 1)

GENERAL KNOWLEDGE - GENERAL KNOWLEDGE

Question No.1

1.00

Bookmark

Who was appointed as the Chairman-cum-Managing Director of Coal India Limited in May 2018?

- V K Nambiar - (Alternative 2)
- T S Vijayan - (Alternative 1)
- Anil Kumar Jha - (Alternative 3)
- Chandan Kumar Dey - (Alternative 4)

Question No.2

1.00

Bookmark

The Economic Survey 2018 has pegged FY 19 GDP growth at

- 6-6.5% - (Alternative 1)
- 7.5-8% - (Alternative 3)
- 5-5.5% - (Alternative 4)
- 7-7.5% - (Alternative 2)

Question No.3

1.00

Bookmark 

When was FDI introduced in India?

- 1991 - (Alternative 2)**
- 1996 - (Alternative 3)
- 2001 - (Alternative 1)
- 2005 - (Alternative 4)

Question No.4

1.00

Bookmark 

What was the important point revealed under the Queen Victoria Proclamation?

- Free education for people up to High School level - (Alternative 4)
- Rights being given to natives rulers to collect taxes - (Alternative 3)
- Perpetual support for native princes - (Alternative 1)**
- Adoption of kingdoms without male successors - (Alternative 2)

Question No.5

1.00

Bookmark 

Yajnasri Satkarni who recovered Malwa from the Shaka rulers belonged to which dynasty?

- Sungas - (Alternative 1)
- Satvahana - (Alternative 2)**
- Guptas - (Alternative 3)
- Mauryan - (Alternative 4)

Question No.6

1.00

Bookmark 

Which gland initiates production of lymphocytes, antibodies and is posterior to breast-bone between the lungs?

- Gonads - (Alternative 2)
- Thymus - (Alternative 1)**
- Adrenal gland - (Alternative 3)
- Thyroid - (Alternative 4)

Question No.7

1.00

Bookmark 

May 8th is observed as :

- Labour Day - (Alternative 4)
- UNO DAY - (Alternative 1)
- WTO DAY - (Alternative 2)
- Red Cross Day - (Alternative 3)**

Question No.8

1.00

Bookmark 

Where is Fort William and Victoria Memorial the popular historical destinations located at?

- Jaipur - (Alternative 4)
- Kolkata - (Alternative 3)**
- New Delhi - (Alternative 1)
- Chennai - (Alternative 2)

Question No.9

1.00

Bookmark 

Which country ranks first among the major countries emitting carbon-di-oxide?

- India - (Alternative 1)
- Russia - (Alternative 3)
- China - (Alternative 2)**
- U.S.A. - (Alternative 4)

Question No.10

1.00

Bookmark

Bansagar Project is not related to one of the following States:

- Madhya Pradesh - (Alternative 3)
- West Bengal - (Alternative 4)**
- Bihar - (Alternative 1)
- Uttar Pradesh - (Alternative 2)

ENGLISH KNOWLEDGE - ENGLISH KNOWLEDGE**Question No.1**

1.00

Bookmark

Choose the alternative that expresses the meaning of the idiom given in capital letters:

Tell us what EGGED YOU to become a cine actor

- hindered - (Alternative 4)
- discouraged - (Alternative 1)
- urged - (Alternative 2)**
- dampened - (Alternative 3)

Question No.2

1.00

Bookmark

Choose the alternative that can substitute the given expression:

An individual who does not think or behave like everyone else, but has independent, unusual opinions--

- Maverick - (Alternative 1)**
- Matriarch - (Alternative 3)
- Prodigy - (Alternative 4)
- Hermit - (Alternative 2)

Question No.3

1.00

Bookmark

Find the Antonym of the given word:

BANTER

- Ridicule - (Alternative 4)
- Flattery - (Alternative 3)**
- Jeering - (Alternative 2)
- Teasing - (Alternative 1)

Question No.4

1.00

Bookmark

.....American andEuropean visited our College for giving guest lecture recently.

- An, A - (Alternative 4)**
- An, An - (Alternative 1)
- A, An - (Alternative 3)
- The , The - (Alternative 2)

Question No.5

1.00

Bookmark

Manjula and Ramnath(1) / are married (2) /and he has been married for 25 years (3) / No error (4).

- are married - (Alternative 2)
- and he has been married for 25 years. - (Alternative 3)**
- Manjula and Ramnath - (Alternative 1)
- No error. - (Alternative 4)

Question No.6

1.00

Bookmark

Choose the alternative which is an improvement for the words given in BLOCK letters. :

I am keeping these fruits in a special box to PREVENT SPOILING OF DAMP in rainy season.

- prevent them from spoiling of damp - (Alternative 1)
- prevent them from spoiling by damp - (Alternative 2)
- no improvement - (Alternative 4)
- prevent them being spoiled by damp - (Alternative 3)

Question No.7

1.00

Bookmark 

Find the word spelt correctly.

- Foreigner - (Alternative 4)
- Committees - (Alternative 2)
- Achievement - (Alternative 1)
- Bouquet - (Alternative 3)

Question No.8

1.00

Bookmark 

In the following question, the 1st and the last part of the sentence/passage are numbered 1 and 6. The rest of the sentence/passage is split into four parts and named P, Q, R and S. These four parts are not given in the proper order. Read the sentence and find out which of the four combinations is correct.

1. Smart phones and computers have assumed enormous importance nowadays.
- P. This shows that these have become all powerful.
- Q. So it is with many other things where these are indispensable.
- R. Bank Accounting, airline booking are all computer controlled.
- S. In such a situation, computer breakdown means the breakdown of the system it controls.
6. Such is our dependence on computers.

- PQRS - (Alternative 2)
- RPQS - (Alternative 1)
- RQSP - (Alternative 4)
- SQPR - (Alternative 3)

Question No.9

1.00

Bookmark 

Find the Synonym of the given word:

GUSHING

- Frozen - (Alternative 3)
- Stagnant - (Alternative 2)
- Improve - (Alternative 4)
- Spouting - (Alternative 1)

Question No.10

1.00

Bookmark 

Many people prefer to read books the library.

- on - (Alternative 3)
- in - (Alternative 2)
- with - (Alternative 4)
- at - (Alternative 1)

COMPUTER KNOWLEDGE - COMPUTER KNOWLEDGE

Question No.1

1.00

Bookmark 

The first row and second column in MS Excel is referred as _____

- B1 - (Alternative 2)
- B2 - (Alternative 4)
- A2 - (Alternative 3)
- A1 - (Alternative 1)

Question No.2

1.00

Bookmark 

What is the first software to be loaded into computer memory, when the computer is switched ON?

- Operating System - (Alternative 1)**
- Languages like C, C++ etc - (Alternative 4)
- MS Office - (Alternative 2)
- Anti-virus software - (Alternative 3)

Question No.3

1.00

Bookmark 

What is the type of Network commonly used to connect computers in a small area within a building, office or campus?

- LAN - (Alternative 1)**
- WAN - (Alternative 2)
- MAN - (Alternative 3)
- WSN - (Alternative 4)

Question No.4

1.00

Bookmark 

If a multimedia file is delivered on a computer but not saved, how the file can be viewed?

- Media playback - (Alternative 2)
- This file can not be viewed if not saved - (Alternative 4)
- Real-time streaming - (Alternative 3)**
- Progressive download - (Alternative 1)

Question No.5

1.00

Bookmark 

Which is the fundamental building block of a CPU in a computer?

- Processor - (Alternative 1)
- Motherboard - (Alternative 2)
- ALU - (Alternative 3)**
- RAM - (Alternative 4)

Question No.6

1.00

Bookmark 

In which generation of computers, transistors were used?

- Fifth Generation - (Alternative 4)
- Fourth Generation - (Alternative 3)
- Second Generation - (Alternative 1)**
- First Generation - (Alternative 2)

Question No.7

1.00

Bookmark 

What is the abbreviation of URL?

- Unidentified Re-Loader - (Alternative 4)
- Unified Resource locator - (Alternative 1)
- Uniform Resource locator - (Alternative 2)**
- Unique Resource locator - (Alternative 3)

Question No.8

1.00

Bookmark 

Statement 1: The Primary Key is used to uniquely identify the records in a database.

Statement 2: The Foreign Key is used to link two or more tables.

- Only statement 1 is true - (Alternative 1)
- Only statement 2 is true - (Alternative 2)
- Both statement 1 and statement 2 are true - (Alternative 3)**
- None of the given statements are true. - (Alternative 4)

Question No.9

1.00

Bookmark 

What is the extension for MS Word files ?

- .text - (Alternative 3)
- .pdf - (Alternative 2)
- .txt - (Alternative 1)
- .doc or .docx - (Alternative 4)

Question No.10

1.00

Bookmark

The software that corrupts the computer without user's knowledge is known as ____

- Cookies - (Alternative 3)
- Anti Virus - (Alternative 2)
- Virus - (Alternative 1)
- Web application - (Alternative 4)

ELECTRICAL ENGINEERING - ELECTRICAL ENGINEERING

Question No.1

1.00

Bookmark

Which of the following terminals does not belong to the MOSFET?

- Base - (Alternative 3)
- Source - (Alternative 4)
- Gate - (Alternative 2)
- Drain - (Alternative 1)

Question No.2

1.00

Bookmark

The load voltage of a chopper can be controlled by varying the _____

- Firing angle - (Alternative 2)
- Extinction angle - (Alternative 4)
- Duty cycle - (Alternative 1)
- Reactor position - (Alternative 3)

Question No.3

1.00

Bookmark

In a SCR based converter, the freewheeling diode is used to _____

- Add to the conduction current of thyristors - (Alternative 1)
- Conduct current during the OFF period of the SCR - (Alternative 3)
- Protect the SCR by providing a shunt path - (Alternative 4)
- Oppose the SCR conduction - (Alternative 2)

Question No.4

1.00

Bookmark

The fact that a conductor carries more current on the surface as compared to core, is known as :

- skin effect - (Alternative 1)
- unsymmetrical fault - (Alternative 4)
- permeability - (Alternative 3)
- corona - (Alternative 2)

Question No.5

1.00

Bookmark

As the load is increased the speed of DC shunt motor will _____

- Reduce rapidly - (Alternative 4)
- Increase slightly - (Alternative 2)
- Increase proportionately - (Alternative 3)
- Reduce slightly - (Alternative 1)

Question No.6

1.00

Bookmark 

A system with characteristic equation $s^3+14s^2+56s+k=0$ will be stable if

- 10 > k > 660 - (Alternative 3)
- 0 < k < 784 - (Alternative 1)
- 1 < k < 64 - (Alternative 2)
- k=660 - (Alternative 4)

Question No.7

1.00

Bookmark 

For the same excitation voltage and winding currents, the auto transformer gives _____

- Half of the output of two winding transformer - (Alternative 3)
- Less output than two winding transformer - (Alternative 1)
- More than the output of the two winding transformer - (Alternative 4)
- Equal to the output of two winding transformer - (Alternative 2)

Question No.8

1.00

Bookmark 

The chances of corona are maximum during _____

- humid weather - (Alternative 4)
- dry weather - (Alternative 3)
- summer heat - (Alternative 1)
- winter - (Alternative 2)

Question No.9

1.00

Bookmark 

In a step down chopper, if $V_s = 100$ V and the chopper is operated at a duty cycle of 75%. Find the output voltage.

- 25V - (Alternative 3)
- 10V - (Alternative 4)
- 100V - (Alternative 1)
- 75V - (Alternative 2)

Question No.10

1.00

Bookmark 

Ferrites are :

- Ferromagnetic material - (Alternative 1)
- Ferrimagnetic material - (Alternative 2)
- Anti-ferromagnetic material - (Alternative 3)
- Diamagnetic material - (Alternative 4)

Question No.11

1.00

Bookmark 

Superposition theorem can be applied only to circuits having _____

- resistive elements - (Alternative 1)
- passive elements - (Alternative 2)
- linear bilateral elements - (Alternative 4)
- non-linear elements - (Alternative 3)

Question No.12

1.00

Bookmark 

Which one of the following is not a vectored interrupt?

- TRAP - (Alternative 1)
- RST 7.5 - (Alternative 3)
- INTR - (Alternative 2)
- RST 3 - (Alternative 4)

Question No.13

1.00

Bookmark

Which logic gate is similar to the function of two series switches ?

- OR gate - (Alternative 2)
- NAND gate - (Alternative 3)
- AND gate - (Alternative 1)**
- NOR gate - (Alternative 4)

Question No.14

1.00

Bookmark

Which among the following represents the precise condition of reciprocity for transmission parameters ?

- $AB - CD = 1$ - (Alternative 1)
- $AD - BC = 1$ - (Alternative 2)**
- $AC - BD = 1$ - (Alternative 3)
- None of the above - (Alternative 4)

Question No.15

1.00

Bookmark

Transmission efficiency increases as _____

- voltage decreases but power factor increases - (Alternative 4)
- voltage increases but power factor decreases - (Alternative 3)
- voltage and power factor both decrease - (Alternative 2)
- voltage and power factor both increase - (Alternative 1)**

Question No.16

1.00

Bookmark

A 230V dc motor has an armature circuit resistance of 0.6 ohm. If the full load armature current is 30A and the no load armature current is 4A, the change in back emf from no load to full load will be

- 32.2V - (Alternative 3)
- 64V - (Alternative 4)
- 1.5V - (Alternative 1)
- 15.6V - (Alternative 2)**

Question No.17

1.00

Bookmark

The skin effect of a conductor will reduce as the _____

- permeability of conductor material increases - (Alternative 3)
- diameter increases - (Alternative 1)
- frequency increases - (Alternative 2)
- resistivity of conductor material increases - (Alternative 4)**

Question No.18

1.00

Bookmark

With feedback system

- the transient response decays more quickly - (Alternative 4)**
- the transient response decays slowly - (Alternative 3)
- the transient response decays at a constant rate - (Alternative 2)
- the transient response get magnified - (Alternative 1)

Question No.19

1.00

Bookmark

Open circuit test on a transformer yields _____

- Leakage of reactance - (Alternative 4)
- Sum of core and copper losses - (Alternative 3)
- Copper losses - (Alternative 2)
- Core losses - (Alternative 1)**

Question No.20

1.00

Bookmark

The slip speed of an induction motor depends upon _____

- Armature Current - (Alternative 1)
- Eddy Currents - (Alternative 4)
- Core losses - (Alternative 2)
- Mechanical load - (Alternative 3)

Question No.21

1.00

Bookmark

Synchronous motor can operate at _____

- Leading power factor only - (Alternative 2)
- Unity power factor only - (Alternative 3)
- Lagging power factor only - (Alternative 1)
- Lagging, leading and unity power factor only - (Alternative 4)

Question No.22

1.00

Bookmark

When alternating current passes through a conductor _____

- portion of conductor near the surface carries more current as compared to the core - (Alternative 2)
- portion of conductor near the surface carries less current as compared to the core - (Alternative 3)
- entire current passes through the core of the conductor - (Alternative 4)
- it remains uniformly distributed throughout the section of the conductor - (Alternative 1)

Question No.23

1.00

Bookmark

Power input to a transformer at no load and rated voltage consists of _____

- Eddy current loss - (Alternative 1)
- Copper loss - (Alternative 3)
- Hysteresis loss - (Alternative 2)
- Core loss - (Alternative 4)

Question No.24

1.00

Bookmark

The combination of AND function and NOT function results in

- Inversion - (Alternative 2)
- NOR gate - (Alternative 4)
- OR gate - (Alternative 1)
- NAND gate - (Alternative 3)

Question No.25

1.00

Bookmark

The most commonly used insulating material for low and medium voltage cables is _____

- Porcelain - (Alternative 2)
- PVC - (Alternative 3)
- Polyethylene - (Alternative 1)
- Vulcanized rubber - (Alternative 4)

Question No.26

1.00

Bookmark

In a semi-conductor diode, the barrier offers opposition to

- Majority carriers in both regions - (Alternative 3)
- Majority as well as minority carriers in both region - (Alternative 4)
- Free electrons in N-region only - (Alternative 2)
- Holes in P region only - (Alternative 1)

Question No.27

1.00

Bookmark 

A bridge used for the measurement of capacitance is

- Schering bridge - (Alternative 4)**
- Wein bridge - (Alternative 2)
- Wheatstone bridge - (Alternative 1)
- Maxwell Bridge - (Alternative 3)

Question No.28

1.00

Bookmark 

In Zener diode, the breakdown is due to Zener, has doping

- Moderate - (Alternative 2)
- High - (Alternative 3)**
- Low - (Alternative 4)
- Lowest - (Alternative 1)

Question No.29

1.00

Bookmark 

In an ideal op-amp the output impedance is

- infinite - (Alternative 3)
- 50 ohm - (Alternative 1)
- zero - (Alternative 4)**
- 100 ohm - (Alternative 2)

Question No.30

1.00

Bookmark 

The magnitude of the induced e.m.f. in a conductor depends on the _____

- Flux density of the magnetic field - (Alternative 1)
- Amount of flux linkages - (Alternative 3)
- Rate of change of flux-linkages - (Alternative 4)**
- Amount of flux cut - (Alternative 2)

Question No.31

1.00

Bookmark 

Time constant of an inductive circuit _____

- increases with increase of inductance and decrease of resistance - (Alternative 1)**
- increases with the increase of inductance and the increase of resistance - (Alternative 2)
- increases with decrease of inductance and decrease of resistance - (Alternative 3)
- increases with decrease of inductance and increase of resistance - (Alternative 4)

Question No.32

1.00

Bookmark 

The bundling of conductor is done primarily to _____

- reduce radio interference - (Alternative 4)
- reduce reactance - (Alternative 1)**
- increase radio interference - (Alternative 3)
- increase reactance - (Alternative 2)

Question No.33

1.00

Bookmark 

E.M.F can be induced in a circuit by _____

- Changing magnetic flux density - (Alternative 1)
- Changing area of circuit - (Alternative 2)
- Changing the angle - (Alternative 3)
- All of above - (Alternative 4)**

Question No.34

1.00

Bookmark

What is an ideal value of attenuation for the frequencies in pass band especially for a cascade configuration?

- Zero - (Alternative 1)**
- Unity - (Alternative 2)
- Unpredictable - (Alternative 4)
- Infinity - (Alternative 3)

Question No.35

1.00

Bookmark

A relay used on long transmission lines is _____

- impedance relay - (Alternative 3)
- reactance relay - (Alternative 2)
- No relay is used - (Alternative 4)
- mho's relay - (Alternative 1)**

Question No.36

1.00

Bookmark

The power transmitted will be maximum when _____

- Corona losses are least - (Alternative 4)
- Receiving end voltage is more - (Alternative 2)
- Reactance is high - (Alternative 3)
- Sending end voltage is more - (Alternative 1)**

Question No.37

1.00

Bookmark

Maxwell bridge is used to measure

- Inductance - (Alternative 2)**
- Capacitance - (Alternative 3)
- Resistance - (Alternative 1)
- Frequency - (Alternative 4)

Question No.38

1.00

Bookmark

Which of the following types of instruments cannot be used for D.C ?

- Induction type - (Alternative 4)**
- Moving iron-attraction type - (Alternative 1)
- Moving coil-permanent magnet type - (Alternative 2)
- Hot-wire type - (Alternative 3)

Question No.39

1.00

Bookmark

Which distribution system is more reliable ?

- All are equally reliable - (Alternative 4)
- Tree system - (Alternative 2)
- Ring main system - (Alternative 1)**
- Radial system - (Alternative 3)

Question No.40

1.00

Bookmark

If current in a conductor increases then according to Lenz's law self-induced voltage will _____

- Tend to decrease the amount of current - (Alternative 2)
- Aid the applied voltage - (Alternative 4)
- Aid the increasing current - (Alternative 1)
- Produce current opposite to the increasing current - (Alternative 3)**

Question No.41

1.00

Bookmark 

A toggle operation is used _____

- with a flip-flop and a gate circuit - (Alternative 4)**
- with a gate circuit - (Alternative 3)
- without a flip-flop - (Alternative 1)
- with a flip-flop - (Alternative 2)

Question No.42

1.00

Bookmark 

The motor used in household refrigerators is _____

- DC Series motor - (Alternative 1)
- DC Shunt motor - (Alternative 2)
- Universal motor - (Alternative 3)
- Single phase Induction motor - (Alternative 4)**

Question No.43

1.00

Bookmark 

The number of interrupt lines in 8085 is _____

- 5 - (Alternative 4)**
- 3 - (Alternative 2)
- 2 - (Alternative 1)
- 4 - (Alternative 3)

Question No.44

1.00

Bookmark 

Which DC motor is generally preferred for cranes and hoists?

- DC Shunt motor - (Alternative 2)
- Cumulatively compounded motor - (Alternative 3)
- DC Series motor - (Alternative 1)**
- Differentially compounded motor - (Alternative 4)

Question No.45

1.00

Bookmark 

A fetch cycle is the _____

- auxiliary part of the instruction cycle - (Alternative 4)
- intermediate part of the instruction cycle - (Alternative 3)
- first part of the instruction cycle - (Alternative 1)**
- last part of the instruction cycle - (Alternative 2)

Question No.46

1.00

Bookmark 

In a open loop system the control action

- depends on the input signal - (Alternative 1)
- depends on system variables - (Alternative 2)
- is independent of the output - (Alternative 4)**
- depends on size of the system - (Alternative 3)

Question No.47

1.00

Bookmark 

Which among the following condition is true at the resonance?

- $X_c > X_L$ - (Alternative 1)
- $X_c = X_L$ - (Alternative 2)**
- $X_c < X_L$ - (Alternative 3)
- None of the above - (Alternative 4)

Question No.48

1.00

Bookmark 

In a NPN transistor if the emitter junction is reverse biased and collector junction is also reverse biased, the transistor will operate in

- Cut-off region - (Alternative 3)**
- Saturation region - (Alternative 2)
- Inverted region - (Alternative 4)
- Active region - (Alternative 1)

Question No.49

1.00

Bookmark 

According to Boolean algebra $1+A+B+C$ is equal to

- $A+B+C$ - (Alternative 1)**
- $1+ABC$ - (Alternative 3)**
- 1 - (Alternative 4)**
- ABC - (Alternative 2)**

Question No.50

1.00

Bookmark 

For maximum power transfer, internal resistance of source should be

- equal to load resistance - (Alternative 1)**
- less than the load resistance - (Alternative 2)
- greater than the load resistance - (Alternative 3)
- none of the above - (Alternative 4)

Question No.51

1.00

Bookmark 

Kirchhoff's law is applicable to _____

- DC circuits only - (Alternative 2)
- Passive networks only - (Alternative 4)
- AC circuits only - (Alternative 1)
- AC as well as DC circuits - (Alternative 3)**

Question No.52

1.00

Bookmark 

Example for Hard magnet are :

- Alnico - (Alternative 4)**
- 45 Permalloy - (Alternative 1)**
- Fe-Pd - (Alternative 3)**
- CrO_2 - (Alternative 2)**

Question No.53

1.00

Bookmark 

What would be the value of power factor for series RLC circuit under the resonance phenomenon?

- Infinity - (Alternative 4)**
- 1 - (Alternative 3)**
- 0.5 - (Alternative 2)**
- 0 - (Alternative 1)**

Question No.54

1.00

Bookmark 

In a two wattmeter method if power factor is 0.5, then one of the wattmeters will read

- $W/2$ - (Alternative 2)**
- $W/\sqrt{3}$ - (Alternative 4)**
- $W/\sqrt{2}$ - (Alternative 3)**

Zero - (Alternative 1)

Question No.55

1.00

Bookmark 

In DC generators the polarity of the interpoles _____

- is opposite to that of the main pole ahead - (Alternative 3)
- is the same as that of the main pole ahead - (Alternative 1)**
- is neutral as these poles do not play part in generating e.m.f - (Alternative 4)
- is the same as that of the immediately preceding pole - (Alternative 2)

Question No.56

1.00

Bookmark 

In squirrel cage induction motor, the rotor slots are usually given slight skew in order to

- reduce magnetic hum - (Alternative 4)**
- reduce accumulation of dirt and dust - (Alternative 3)
- reduce eddy currents - (Alternative 2)
- reduce windage losses - (Alternative 1)

Question No.57

1.00

Bookmark 

Which motor should not be started on no-load ?

- DC Shunt motor - (Alternative 2)
- DC Series motor - (Alternative 1)**
- Synchronous motor - (Alternative 3)
- Induction motor - (Alternative 4)

Question No.58

1.00

Bookmark 

In case the field of a synchronous motor is under excited, the power factor will be

- zero - (Alternative 3)
- leading - (Alternative 1)
- unity - (Alternative 4)
- lagging - (Alternative 2)**

Question No.59

1.00

Bookmark 

The input and output signals for CE amplifier are always

- equal - (Alternative 1)
- negative - (Alternative 4)
- out of phase - (Alternative 3)**
- inphase - (Alternative 2)

Question No.60

1.00

Bookmark 

The Laplace transform of a unity function is_____

- 1 - (Alternative 2)
- s - (Alternative 4)
- zero - (Alternative 1)
- 1/s - (Alternative 3)**