

UGC NET 2019

Test Time	9:30 AM - 12:30 PM
Test Date	21/06/2019
Subject	88 Electronic Science

Section : PART I General Aptitude

Q.1 Plagiarism in research is

- (1) Creative use of previous data
- (2) Copying unscrupulously and making use of it
- (3) Quoting someone and citing him/her
- (4) Referring to previous data and working over it with new objectives

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 64635015759
Option 1 ID : 64635061927
Option 2 ID : 64635061928
Option 3 ID : 64635061929
Option 4 ID : 64635061930
Status : Answered
Chosen Option : 4

Q.2 A university teacher plans to study the effect of level of aspiration of students in terms of their socio-economic background on their scholastic performance at the term end evaluation conducted by an external testing agency. What is the dependent variable in this study?

- (1) Level of aspiration of students
- (2) Socio-economic background of students
- (3) Scholastic performance of students
- (4) Term end evaluation

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 64635015760
Option 1 ID : 64635061931
Option 2 ID : 64635061932
Option 3 ID : 64635061933
Option 4 ID : 64635061934
Status : Answered
Chosen Option : 3

Q.3 Diagnostic Evaluation ascertains

- (1) Students performance at the beginning of instructions
- (2) Causes and remedies of persistent learning problems during instructions
- (3) Degree of achievement of instructional objectives at the end
- (4) Learning progress and failure after instructions

Options 1. 1
2. 2
3. 3

4. 4

Question Type : MCQ

Question ID : 64635015753

Option 1 ID : 64635061903

Option 2 ID : 64635061904

Option 3 ID : 64635061905

Option 4 ID : 64635061906

Status : Answered

Chosen Option : 2

Q.4 Think-aloud procedure is

- (1) a part of secondary source of data
- (2) a technique used to investigate learner strategies and performance
- (3) a strategy of testing learners' aptitude by providing primary sources
- (4) a necessary method in scientific research

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015757

Option 1 ID : 64635061919

Option 2 ID : 64635061920

Option 3 ID : 64635061921

Option 4 ID : 64635061922

Status : Answered

Chosen Option : 2

Q.5 Among the following which one is an example of instructional software?

- (1) Audio podcast
- (2) Printed material or book
- (3) Radio talk
- (4) Edusat

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015754

Option 1 ID : 64635061907

Option 2 ID : 64635061908

Option 3 ID : 64635061909

Option 4 ID : 64635061910

Status : Answered

Chosen Option : 2

Q.6

In the two sets given below, Set-I provides the different levels of learning according to Bloom's Taxonomy, while set-II gives their examples and concerns. Match the two sets and select from the options to indicate your answer :

Set-I (Levels of Learning)	Set-II (Examples)
(a) Memory level	(i) Identifying examples of a given concept
(b) Understanding level	(ii) Generating new ideas
(c) Analysing level	(iii) Recalling information
(d) Creating level	(iv) Isolating information into parts

Options :

	(a)	(b)	(c)	(d)
(1)	(ii)	(i)	(iii)	(iv)
(2)	(i)	(ii)	(iii)	(iv)
(3)	(iv)	(iii)	(i)	(ii)
(4)	(iii)	(i)	(iv)	(ii)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015752

Option 1 ID : 64635061899

Option 2 ID : 64635061900

Option 3 ID : 64635061901

Option 4 ID : 64635061902

Status : Answered

Chosen Option : 2

Q.7 From the list given below identify the instructional events which form part of the structure of a lesson plan. Select your answer from the options given below the list

List of instructional events :

- (i) Gaining attention of students
- (ii) Prior knowledge of students
- (iii) Informing the learner of the objectives
- (iv) Stimulating recall of pre-requisite learning
- (v) Checking the availability of reading material in the library.
- (vi) Eliciting the desired response

Options :

(1)	(i)	(ii)	(iii)	(iv)
(2)	(i)	(iii)	(iv)	(vi)
(3)	(ii)	(iii)	(v)	(vi)
(4)	(i)	(iii)	(iv)	(v)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015756

Option 1 ID : 64635061915

Option 2 ID : 64635061916

Option 3 ID : 64635061917

Option 4 ID : 64635061918

Status : Answered

Chosen Option : 4

Q.8

Critical language testing in a research report is

- (1) Testing language from an ethical point of view, revealing its misuses
- (2) Evaluating the stylistic characteristics of language
- (3) Critiquing the ideology of the author
- (4) Observing the gender role played by language

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015761

Option 1 ID : 64635061935

Option 2 ID : 64635061936

Option 3 ID : 64635061937

Option 4 ID : 64635061938

Status : Answered

Chosen Option : 3

Q.9

Participant observation is a part of

- (1) Philosophical research
- (2) Mentalist Theory of language
- (3) Mathematical research
- (4) Ethnographic research

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015758

Option 1 ID : 64635061923

Option 2 ID : 64635061924

Option 3 ID : 64635061925

Option 4 ID : 64635061926

Status : Answered

Chosen Option : 1

Q.10

Which teaching aids enhance the skills like reading, listening and pronunciation?

- | | |
|-------------------------------------|-------------------------------------|
| (1) Audio-lingual teaching aids | (2) Scientific teaching aids |
| (3) General knowledge teaching aids | (4) Theoretical based teaching aids |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015755

Option 1 ID : 64635061911

Option 2 ID : 64635061912

Option 3 ID : 64635061913

Option 4 ID : 64635061914

Status : Answered

Chosen Option : 1

Comprehension:

Unquestionably a literary life is for the most part an unhappy life, because if you have genius, you must suffer the penalty of genius; and if you have only talent, there are so many cares and worries incidental to the circumstances of men of letters, as to make life exceedingly miserable. Besides the pangs of composition, and the continuous disappointment which a true artist feels at his inability to reveal himself, there is the ever-recurring difficulty of gaining the public ear. Young writers are buoyed up by the hope and the belief that they have only to throw that poem at the world's feet to get back in return the laurel-crown; that they have only to push as a new light in literature. You can never convince a young author that the editors of magazines and the publishers of books are a practical body of men, who are by no means frantically anxious about placing the best literature before the public. Nay, that for the most part they are mere brokers, who conduct their business on the hardest lines of a profit and loss account. But supposing your book fairly launches, its perils are only beginning. You have to run the gauntlet of the critics. When you are a little older, you will find that criticism is not much more serious than the bye-play of clowns in a circus, when they beat around the ring, the victim with bladders stung at the end of long poles. A time comes in the life of every author when he regards critics as comical rather than formidable, and goes his way unheeding. But there are sensitive souls that yield under the chastisement and, perhaps after suffering much silent torture, abandon the profession of the pen forever.

SubQuestion No : 11

Q.11

Young authors aspire to

- (1) Equate themselves to the established authors
- (2) Remain content in their work only
- (3) Achieve glory by their merit yet always in a hurry
- (4) Become critics subsequently

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015764

Option 1 ID : 64635061943

Option 2 ID : 64635061944

Option 3 ID : 64635061945

Option 4 ID : 64635061946

Status : Answered

Chosen Option : 4

Comprehension:

Unquestionably a literary life is for the most part an unhappy life, because if you have genius, you must suffer the penalty of genius; and if you have only talent, there are so many cares and worries incidental to the circumstances of men of letters, as to make life exceedingly miserable. Besides the pangs of composition, and the continuous disappointment which a true artist feels at his inability to reveal himself, there is the ever-recurring difficulty of gaining the public ear. Young writers are buoyed up by the hope and the belief that they have only to throw that poem at the world's feet to get back in return the laurel-crown; that they have only to push as a new light in literature. You can never convince a young author that the editors of magazines and the publishers of books are a practical body of men, who are by no means frantically anxious about placing the best literature before the public. Nay, that for the most part they are mere brokers, who conduct their business on the hardest lines of a profit and loss account. But supposing your book fairly launches, its perils are only beginning. You have to run the gauntlet of the critics. When you are a little older, you will find that criticism is not much more serious than the bye-play of clowns in a circus, when they beat around the ring, the victim with bladders stung at the end of long poles. A time comes in the life of every author when he regards critics as comical rather than formidable, and goes his way unheeding. But there are sensitive souls that yield under the chastisement and, perhaps after suffering much silent torture, abandon the profession of the pen forever.

SubQuestion No : 12

Q.12

Literary life is unhappy because

- (1) One has to carry the load of being a genius while not being one
- (2) The genius can still remain a genius and be amidst misery in the face of adversity
- (3) Talent brings pseudo happiness
- (4) There is a constant desire to outshine others

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015763

Option 1 ID : 64635061939

Option 2 ID : 64635061940

Option 3 ID : 64635061941

Option 4 ID : 64635061942

Status : Answered

Chosen Option : 2

Comprehension:

Unquestionably a literary life is for the most part an unhappy life, because if you have genius, you must suffer the penalty of genius; and if you have only talent, there are so many cares and worries incidental to the circumstances of men of letters, as to make life exceedingly miserable. Besides the pangs of composition, and the continuous disappointment which a true artist feels at his inability to reveal himself, there is the ever-recurring difficulty of gaining the public ear. Young writers are buoyed up by the hope and the belief that they have only to throw that poem at the world's feet to get back in return the laurel-crown; that they have only to push as a new light in literature. You can never convince a young author that the editors of magazines and the publishers of books are a practical body of men, who are by no means frantically anxious about placing the best literature before the public. Nay, that for the most part they are mere brokers, who conduct their business on the hardest lines of a profit and loss account. But supposing your book fairly launches, its perils are only beginning. You have to run the gauntlet of the critics. When you are a little older, you will find that criticism is not much more serious than the bye-play of clowns in a circus, when they beat around the ring, the victim with bladders stung at the end of long poles. A time comes in the life of every author when he regards critics as comical rather than formidable, and goes his way unheeding. But there are sensitive souls that yield under the chastisement and, perhaps after suffering much silent torture, abandon the profession of the pen forever.

SubQuestion No : 13

Q.13 The perception towards the publishers and critics in the above passage is

- (1) That of a scathing attack
- (2) That of sympathy
- (3) That of generosity
- (4) That of cynicism

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015765

Option 1 ID : 64635061947

Option 2 ID : 64635061948

Option 3 ID : 64635061949

Option 4 ID : 64635061950

Status : Answered

Chosen Option : 2

Comprehension:

Unquestionably a literary life is for the most part an unhappy life, because if you have genius, you must suffer the penalty of genius; and if you have only talent, there are so many cares and worries incidental to the circumstances of men of letters, as to make life exceedingly miserable. Besides the pangs of composition, and the continuous disappointment which a true artist feels at his inability to reveal himself, there is the ever-recurring difficulty of gaining the public ear. Young writers are buoyed up by the hope and the belief that they have only to throw that poem at the world's feet to get back in return the laurel-crown; that they have only to push as a new light in literature. You can never convince a young author that the editors of magazines and the publishers of books are a practical body of men, who are by no means frantically anxious about placing the best literature before the public. Nay, that for the most part they are mere brokers, who conduct their business on the hardest lines of a profit and loss account. But supposing your book fairly launches, its perils are only beginning. You have to run the gauntlet of the critics. When you are a little older, you will find that criticism is not much more serious than the bye-play of clowns in a circus, when they beat around the ring, the victim with bladders stung at the end of long poles. A time comes in the life of every author when he regards critics as comical rather than formidable, and goes his way unheeding. But there are sensitive souls that yield under the chastisement and, perhaps after suffering much silent torture, abandon the profession of the pen forever.

SubQuestion No : 14

Q.14 Experience and age of an author

- (1) Makes the author stoic to criticism
- (2) Makes the author angry and lovely
- (3) Turns the author to a buffoon
- (4) Drives the author to cynicism

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015766

Option 1 ID : 64635061951

Option 2 ID : 64635061952

Option 3 ID : 64635061953

Option 4 ID : 64635061954

Status : Answered

Chosen Option : 1

Comprehension:

Unquestionably a literary life is for the most part an unhappy life, because if you have genius, you must suffer the penalty of genius; and if you have only talent, there are so many cares and worries incidental to the circumstances of men of letters, as to make life exceedingly miserable. Besides the pangs of composition, and the continuous disappointment which a true artist feels at his inability to reveal himself, there is the ever-recurring difficulty of gaining the public ear. Young writers are buoyed up by the hope and the belief that they have only to throw that poem at the world's feet to get back in return the laurel-crown; that they have only to push as a new light in literature. You can never convince a young author that the editors of magazines and the publishers of books are a practical body of men, who are by no means frantically anxious about placing the best literature before the public. Nay, that for the most part they are mere brokers, who conduct their business on the hardest lines of a profit and loss account. But supposing your book fairly launches, its perils are only beginning. You have to run the gauntlet of the critics. When you are a little older, you will find that criticism is not much more serious than the bye-play of clowns in a circus, when they beat around the ring, the victim with bladders stung at the end of long poles. A time comes in the life of every author when he regards critics as comical rather than formidable, and goes his way unheeding. But there are sensitive souls that yield under the chastisement and, perhaps after suffering much silent torture, abandon the profession of the pen forever.

SubQuestion No : 15

Q.15

The effective way of tackling criticism is

- (1) To defend oneself through print media
- (2) To be vocal about one's craft
- (3) To become a critic of one's own art and start analysing its merit
- (4) To be gracefully glued to the artistic exercise

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015767

Option 1 ID : 64635061955

Option 2 ID : 64635061956

Option 3 ID : 64635061957

Option 4 ID : 64635061958

Status : Answered

Chosen Option : 4

Q.16

If x and y are two positive numbers and x is 25% greater than y , what is the value of the ratio $\frac{y}{x}$?

(1) 0.75

(2) 0.80

(3) 1.20

(4) 1.25

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015775

Option 1 ID : 64635061987

Option 2 ID : 64635061988

Option 3 ID : 64635061989

Option 4 ID : 64635061990

Status : Answered

Chosen Option : 1

Q.17

The proposition 'All leaves are green' is equivalent to which of the following propositions?

(a) No leaves are green

(b) No leaves are non-green

(c) No leaves are in other color than green

(d) No green is leaf

Select the correct answer from the options given below :

(1) (b), (c) and (d)

(2) (a) and (b)

(3) (b) only

(4) (b) and (c)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015782

Option 1 ID : 64635062015

Option 2 ID : 64635062016

Option 3 ID : 64635062017

Option 4 ID : 64635062018

Status : Answered

Chosen Option : 2

Q.18 If the simple interest on a certain sum for 1 year 3 months at $8\frac{1}{2}\%$ per annum exceeds the simple interest on the same sum for 8 months at $7\frac{1}{2}\%$ per annum by Rs. 45, then the sum is

- (1) Rs. 600 (2) Rs. 800
(3) Rs. 6,000 (4) Rs. 8,000

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015777

Option 1 ID : 64635061995

Option 2 ID : 64635061996

Option 3 ID : 64635061997

Option 4 ID : 64635061998

Status : Answered

Chosen Option : 2

Q.19 Match the following :

Set-I
(Communication elements)

Set-II
(Description of process part)

- | | |
|--------------|----------------------------------|
| (a) Sender | (i) Brain |
| (b) Receiver | (ii) Electro-magnetic impulses |
| (c) Message | (iii) The central nervous system |
| (d) Medium | (iv) Sensory organs |

Choose the correct answer from the options given below :

- | | (a) | (b) | (c) | (d) |
|-----|-------|-------|-------|-------|
| (1) | (i) | (iii) | (ii) | (iv) |
| (2) | (iii) | (i) | (iv) | (ii) |
| (3) | (iv) | (i) | (ii) | (iii) |
| (4) | (ii) | (iv) | (iii) | (i) |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015772

Option 1 ID : 64635061975

Option 2 ID : 64635061976

Option 3 ID : 64635061977

Option 4 ID : 64635061978

Status : Answered

Chosen Option : 1

Q.20 Identify the reasoning in the following argument :

'Writing on paper is similar to writing on the board'.

- (1) Deductive
- (2) Hypothetical
- (3) Analogical
- (4) Inductive

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015781

Option 1 ID : 64635062011

Option 2 ID : 64635062012

Option 3 ID : 64635062013

Option 4 ID : 64635062014

Status : Answered

Chosen Option : 3

Q.21 'Non-content behaviours such as rate of speaking, loudness, tendency to interrupt and pronunciation peculiarities' are referred to as ————— behaviour.

- (1) Extra-personal
- (2) Animated
- (3) Extra-linguistic
- (4) Involuntary

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015769

Option 1 ID : 64635061963

Option 2 ID : 64635061964

Option 3 ID : 64635061965

Option 4 ID : 64635061966

Status : Answered

Chosen Option : 4

Q.22 Choose the missing term out of the given alternatives

TEF, UGH, —————, WKL

- (1) CMN
- (2) UJI
- (3) VIJ
- (4) IJT

Options 1. 1

- 2. 2
- 3. 3

4. 4

Question Type : MCQ

Question ID : 64635015773

Option 1 ID : 64635061979

Option 2 ID : 64635061980

Option 3 ID : 64635061981

Option 4 ID : 64635061982

Status : Answered

Chosen Option : 3

Q.23

In analog communication, contents are considered to be

(1) Convergent

(2) Static

(3) Physical

(4) Ethereal

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015771

Option 1 ID : 64635061971

Option 2 ID : 64635061972

Option 3 ID : 64635061973

Option 4 ID : 64635061974

Status : Answered

Chosen Option : 2

Q.24

Which of the following are barriers to effective communication?

(a) Physical noise

(b) Semantic noise

(c) Psychological noise

(d) Non-semantic noise

Choose the correct answer from the options given below

(1) (a), (b) and (d)

(2) (a), (b) and (c)

(3) (a), (c) and (d)

(4) (a) and (d) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015768

Option 1 ID : 64635061959

Option 2 ID : 64635061960

Option 3 ID : 64635061961

Option 4 ID : 64635061962

Status : Answered

Chosen Option : 2

Q.25

The sum of deviation taken from which of the descriptive statistical measure is always equal to zero?

- (1) Mean
- (2) Median
- (3) Mode
- (4) Percentile

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015774

Option 1 ID : 64635061983

Option 2 ID : 64635061984

Option 3 ID : 64635061985

Option 4 ID : 64635061986

Status : Answered

Chosen Option : 3

Q.26 5% of the inhabitants of a village having died of malaria, a panic set in. During this, 20% of the remaining inhabitants left the village. The population is then reduced to 4750. Find the number of original inhabitants

- | | |
|----------|----------|
| (1) 5000 | (2) 5250 |
| (3) 6250 | (4) 7500 |

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015776

Option 1 ID : 64635061991

Option 2 ID : 64635061992

Option 3 ID : 64635061993

Option 4 ID : 64635061994

Status : Answered

Chosen Option : 2

Q.27 If proposition 'All pens are not pencils' is taken to be True then which of the following propositions can be False?

- | | |
|--------------------------|---------------------------|
| (1) All pens are pencils | (2) Some pencils are pens |
| (3) No pen is pencil | (4) Some pens are pencils |

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015778

Option 1 ID : 64635061999

Option 2 ID : 64635062000

Option 3 ID : 64635062001

Option 4 ID : 64635062002

Status : Answered

Chosen Option : 4

Q.28

When subject and predicate of both the premises is same but they differ only in quantity, it is known as

- (1) Subaltern
- (2) Contraries
- (3) Subcontraries
- (4) Contradictories

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015780

Option 1 ID : 64635062007

Option 2 ID : 64635062008

Option 3 ID : 64635062009

Option 4 ID : 64635062010

Status : Answered

Chosen Option : 3

Q.29 Given below are two premises with four conclusions drawn from them. Which of the following conclusions could be validly drawn from the premises?

Premises :

- (i) All fans are tubes
- (ii) Bulbs are not tubes

Conclusions :

- (a) Fans are not bulbs
- (b) All tubes are fans
- (c) Fans are bulbs
- (d) No tube is bulb

Select the correct answer from the options given below :

- (1) (a), (b), (c)
- (2) (a) and (d)
- (3) (a) only
- (4) (b), (c) and (d)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015779

Option 1 ID : 64635062003

Option 2 ID : 64635062004

Option 3 ID : 64635062005

Option 4 ID : 64635062006

Status : Answered

Chosen Option : 3

Q.30 In a classroom, delayed feedback can happen due to

- (1) Use of technology
- (2) Expanded communication
- (3) Semantic noise
- (4) Participatory environment

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015770

Option 1 ID : 64635061967

Option 2 ID : **64635061968**
 Option 3 ID : **64635061969**
 Option 4 ID : **64635061970**
 Status : **Answered**
 Chosen Option : **3**

Comprehension:

Consider the following table that shows the total number of tickets sold of five movies P, Q, R, S and T, across two cinema houses A and B on a particular day. In accordance with the table, answer the questions that follow (Question 31-35) :

Sale of Movie Tickets Cinema house wise		
Movies	Cinema	
	A	B
P	200	300
Q	350	400
R	250	350
S	300	350
T	400	250

SubQuestion No : 31

Q.31 What is the average number of tickets sold at Cinema B for movies T and S together?

- (1) 360 (2) 320
 (3) 300 (4) 340

Options 1. 1

2. 2
 3. 3
 4. 4

Question Type : **MCQ**
 Question ID : **64635015788**
 Option 1 ID : **64635062035**
 Option 2 ID : **64635062036**
 Option 3 ID : **64635062037**
 Option 4 ID : **64635062038**
 Status : **Answered**
 Chosen Option : **3**

Comprehension:

Consider the following table that shows the total number of tickets sold of five movies P, Q, R, S and T, across two cinema houses A and B on a particular day. In accordance with the table, answer the questions that follow (Question 31-35) :

Sale of Movie Tickets Cinema house wise		
Movies	Cinema	
	A	B
P	200	300
Q	350	400
R	250	350
S	300	350
T	400	250

SubQuestion No : 32

Q.32 The number of tickets sold of movie T at Cinema house A is what percent of the number of tickets of movie P sold at Cinema A?

- (1) 220% (2) 200%
 (3) 210% (4) 190%

Options 1. 1

2. 2
 3. 3

4. 4

Question Type : MCQ

Question ID : 64635015784

Option 1 ID : 64635062019

Option 2 ID : 64635062020

Option 3 ID : 64635062021

Option 4 ID : 64635062022

Status : Answered

Chosen Option : 2

Comprehension:

Consider the following table that shows the total number of tickets sold of five movies P, Q, R, S and T, across two cinema houses A and B on a particular day. In accordance with the table, answer the questions that follow (Question 31-35) :

Sale of Movie Tickets Cinema house wise		
Movies	Cinema	
	A	B
P	200	300
Q	350	400
R	250	350
S	300	350
T	400	250

SubQuestion No : 33

Q.33 What is the ratio of the number of tickets sold of movie P at Cinema B to the number of tickets sold of movie Q at Cinema B?

- (1) 2 : 3
- (2) 3 : 4
- (3) 1 : 2
- (4) 3 : 5

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015786

Option 1 ID : 64635062027

Option 2 ID : 64635062028

Option 3 ID : 64635062029

Option 4 ID : 64635062030

Status : Answered

Chosen Option : 2

Comprehension:

Consider the following table that shows the total number of tickets sold of five movies P, Q, R, S and T, across two cinema houses A and B on a particular day. In accordance with the table, answer the questions that follow (Question 31-35) :

Sale of Movie Tickets Cinema house wise		
Movies	Cinema	
	A	B
P	200	300
Q	350	400
R	250	350
S	300	350
T	400	250

SubQuestion No : 34

Q.34 What is the total number of tickets sold of movies Q and R together at both the Cinemas A and B together?

- (1) 1050
 (2) 1200
 (3) 1250
 (4) 1350

Options 1. 1

2. 2
 3. 3
 4. 4

Question Type : **MCQ**

Question ID : **64635015785**

Option 1 ID : **64635062023**

Option 2 ID : **64635062024**

Option 3 ID : **64635062025**

Option 4 ID : **64635062026**

Status : **Answered**

Chosen Option : **1**

Comprehension:

Consider the following table that shows the total number of tickets sold of five movies P, Q, R, S and T, across two cinema houses A and B on a particular day. In accordance with the table, answer the questions that follow (Question 31-35) :

Sale of Movie Tickets Cinema house wise		
Movies	Cinema	
	A	B
P	200	300
Q	350	400
R	250	350
S	300	350
T	400	250

SubQuestion No : 35

Q.35 What is the difference between the total number of tickets sold of all movies together at Cinema A and the total number of tickets sold of all movies together at Cinema B?

- (1) 180 (2) 170
 (3) 150 (4) 160

Options 1. 1

2. 2
 3. 3
 4. 4

Question Type : **MCQ**

Question ID : **64635015787**

Option 1 ID : **64635062031**

Option 2 ID : **64635062032**

Option 3 ID : **64635062033**

Option 4 ID : **64635062034**

Status : **Answered**

Chosen Option : **3**

Q.36

Which of the following statement(s) is/are True in respect to ICT?

P : ICT is an acronym that stands for information and competitive technology.

Q : The effective use of ICT to support learning in the inclusive education exemplifies good teaching for all learners.

- | | |
|------------------|---------------------|
| (1) P only | (2) Q only |
| (3) Both P and Q | (4) Neither P nor Q |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015789

Option 1 ID : 64635062039

Option 2 ID : 64635062040

Option 3 ID : 64635062041

Option 4 ID : 64635062042

Status : Answered

Chosen Option : 3

Q.37 Statement I : The Millennium Development Goals were adopted in the United Nations in the year 2010

Statement II : Developing a global partnership for development was one of the Millennium Development Goals.

Which of the above statements is/are correct?

- | |
|----------------------|
| (1) Only I |
| (2) Only II |
| (3) Both I and II |
| (4) Neither I nor II |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015795

Option 1 ID : 64635062063

Option 2 ID : 64635062064

Option 3 ID : 64635062065

Option 4 ID : 64635062066

Status : Answered

Chosen Option : 1

Q.38 Which one of the following five year plans of India has given special emphasis on "Education and Manpower"?

- | | |
|---------------------------|---------------------------|
| (1) Third Five Year Plan | (2) Fourth Five Year Plan |
| (3) Second Five Year Plan | (4) Fifth Five Year Plan |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015801

Option 1 ID : 64635062087

Option 2 ID : 64635062088

Option 3 ID : 64635062089

Option 4 ID : 64635062090

Status : Answered

Chosen Option : 1

Q.39 Which one of the following forms a necessary component of Conventional Education System in India?

- | | |
|----------------------------|---|
| (1) Learning from books | (2) Learning from the teacher |
| (3) Learning from thinking | (4) Learning through instructional material |

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **64635015800**

Option 1 ID : **64635062083**

Option 2 ID : **64635062084**

Option 3 ID : **64635062085**

Option 4 ID : **64635062086**

Status : **Answered**

Chosen Option : **1**

Q.40 Which of the following belongs to the category of geophysical hazards?

- | | |
|----------------------|----------------|
| (1) Infestation | (2) Avalanches |
| (3) Invasive species | (4) Diseases |

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **64635015798**

Option 1 ID : **64635062075**

Option 2 ID : **64635062076**

Option 3 ID : **64635062077**

Option 4 ID : **64635062078**

Status : **Answered**

Chosen Option : **4**

Q.41 Which of the following best describes a wiki?

- (1) A system that allows users to add information onto a website but does not change any pre-existing information
- (2) A system that allows collaborative modification of its content and structure directly from the web browser
- (3) A system that serves as a publically accessible personal journal for an individual
- (4) A system that monitors the modification of content within a blog

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **64635015791**

Option 1 ID : **64635062047**

Option 2 ID : **64635062048**

Option 3 ID : **64635062049**

Option 4 ID : **64635062050**

Status : **Answered**

Chosen Option : **4**

Q.42

Brain drain problem which was dominant in the middle of 20th Century in India is indicative of which one of the following aspects?

- (i) Lack of adequate facilities for advanced study and research in India
- (ii) The capacity of the developed nations to buy the talent at a price beyond the means of the developing nations
- (iii) Increase of population and under utilization of human research

Choose the correct option from below :

- (1) Only (i) and (iii)
- (2) Only (ii) and (iii)
- (3) Only (iii)
- (4) Only (i) and (ii)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015802

Option 1 ID : 64635062091

Option 2 ID : 64635062092

Option 3 ID : 64635062093

Option 4 ID : 64635062094

Status : Answered

Chosen Option : 1

Q.43

What is the decimal equivalent of binary number 1100110?

- (1) 102
- (2) 204
- (3) 153
- (4) 51

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015793

Option 1 ID : 64635062055

Option 2 ID : 64635062056

Option 3 ID : 64635062057

Option 4 ID : 64635062058

Status : Answered

Chosen Option : 1

Q.44

GIAN (Global Initiative of Academic Networks) has been launched by Government of India in order to

- (1) Encourage Indian Scholars to learn abroad
- (2) Discourage Indian Scholars from researching in India
- (3) Encourage global scholars engage with their counter parts in India
- (4) Encourage global scholars to engage with Indian Scholars abroad

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015799

Option 1 ID : **64635062079**
Option 2 ID : **64635062080**
Option 3 ID : **64635062081**
Option 4 ID : **64635062082**
Status : **Answered**
Chosen Option : **1**

Q.45 Which one of the following conferences/summit is also known as UN Conference on Sustainable Development (UNCSD)?

- (1) The Stockholm Conference, 1972
- (2) The Rio de Janerio Conference, 1992
- (3) The Johannesburg Summit, 2002
- (4) The Rio + 20 Conference, 2012

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **64635015796**
Option 1 ID : **64635062067**
Option 2 ID : **64635062068**
Option 3 ID : **64635062069**
Option 4 ID : **64635062070**
Status : **Answered**
Chosen Option : **3**

Q.46 In the formation of surface Ozone, which of the following do play an important role?

- (a) Oxides of nitrogen
- (b) Oxides of sulphur
- (c) Sunlight
- (d) Carbon monoxide

Choose the correct answer from the code given below :

- (1) (a), (b), (c)
- (2) (b), (c), (d)
- (3) (a), (c), (d)
- (4) (a), (b), (d)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**
Question ID : **64635015797**
Option 1 ID : **64635062071**
Option 2 ID : **64635062072**
Option 3 ID : **64635062073**
Option 4 ID : **64635062074**
Status : **Answered**
Chosen Option : **2**

Q.47

What is spyware in respect of computer software?

- (1) Software that aims to gather information about a person without his/her knowledge, and that may send such information to another entity
- (2) Legitimate software that allows companies to monitor and supervise the computers of their employees from a central location
- (3) Software used to disrupt computer operation or gain access to private computer systems
- (4) A computer program hidden within another seemingly harmless program that produces copies of itself and inserts them into another programs or files

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015790

Option 1 ID : 64635062043

Option 2 ID : 64635062044

Option 3 ID : 64635062045

Option 4 ID : 64635062046

Status : Answered

Chosen Option : 3

Q.48 Which are the examples of potential kinetic energy? Select your answer from the options given below :

- (i) Water that is behind a dam
- (ii) Radio signals
- (iii) An airplane idling on the runway
- (iv) A satellite before it is launched
- (v) A coiled spring
- (vi) Heat harnessed from the oceans

Options :

- (1) (i), (iii), (iv) and (v)
- (2) (i), (ii), (iii) and (vi)
- (3) (ii), (iii), (iv) and (v)
- (4) (ii), (iv), (v) and (vi)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015794

Option 1 ID : 64635062059

Option 2 ID : 64635062060

Option 3 ID : 64635062061

Option 4 ID : 64635062062

Status : Answered

Chosen Option : 1

Q.49 Anjali's teacher uses VLE, a software tool designed to deliver courses online. The acronym VLE stands for

- (1) Video Learning Environment
- (2) Visual Learning Environment
- (3) Virtual Learning Environment
- (4) Visual Local Environment

Options 1. 1

2. 2
3. 3

4. 4

Question Type : MCQ

Question ID : 64635015792

Option 1 ID : 64635062051

Option 2 ID : 64635062052

Option 3 ID : 64635062053

Option 4 ID : 64635062054

Status : Answered

Chosen Option : 2

Q.50 The premier organisation established in India to deal with capacity building and research in planning and management of education in India and South Asia is

- | | |
|-----------|------------------------|
| (1) AIU | (2) SAARC University |
| (3) NUEPA | (4) Nalanda University |

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015803

Option 1 ID : 64635062095

Option 2 ID : 64635062096

Option 3 ID : 64635062097

Option 4 ID : 64635062098

Status : Answered

Chosen Option : 2

Section : PART II Electronic Science

Q.1 Deal and Grove model is applicable in

1. diffusion
2. implantation
3. oxidation
4. epitaxy

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015812

Option 1 ID : 64635062131

Option 2 ID : 64635062132

Option 3 ID : 64635062133

Option 4 ID : 64635062134

Status : Answered

Chosen Option : 2

Q.2

Some analog devices are listed below :

- (a) Transistor in CE configuration
- (b) Transistor in CB configuration
- (c) Transistor in CC configuration
- (d) OP-Amp

Select the right option about the current gain of these devices in descending order :

- 1. (a), (b), (c), (d)
- 2. (d), (c), (b), (a)
- 3. (d), (a), (b), (c)
- 4. (d), (c), (a), (b)

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015885

Option 1 ID : 64635062423

Option 2 ID : 64635062424

Option 3 ID : 64635062425

Option 4 ID : 64635062426

Status : Answered

Chosen Option : 1

Q.3 A sinusoidal voltage is measured by CRO. Vertical distance between the positive and negative peaks is 8 cm. If the scale of the CRO is set at 5 mV/cm, then peak value of voltage will be

- 1. 20 mV
- 2. 40 mV
- 3. 5 mV
- 4. 10 mV

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015852

Option 1 ID : 64635062291

Option 2 ID : 64635062292

Option 3 ID : 64635062293

Option 4 ID : 64635062294

Status : Answered

Chosen Option : 2

Q.4

Assertion (A) : If the frequencies are in microwave range, H, Y and Z parameters can not be measured.

Reason (R) : Short and open circuits are difficult to achieve over a broad band of frequencies and active devices such as power transistors and tunnel diodes, frequently will not have stability for a short or open circuit.

Choose the correct answer :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015893

Option 1 ID : 64635062455

Option 2 ID : 64635062456

Option 3 ID : 64635062457

Option 4 ID : 64635062458

Status : Answered

Chosen Option : 1

Q.5 The figure of merit of a logic family is given by the product of

1. gain and bandwidth
2. propagation delay time and power dissipation
3. fan out and propagation delay
4. noise margin and power dissipation

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015824

Option 1 ID : 64635062179

Option 2 ID : 64635062180

Option 3 ID : 64635062181

Option 4 ID : 64635062182

Status : Answered

Chosen Option : 1

Q.6 The purpose of using a Bleeder resistor across the filter, when designing a d.c. power supply is

1. to maintain maximum current for the optimum operation of inductor
2. to improve voltage regulation of the supply only
3. to provide safety to the person handling the equipment only
4. both to improve regulation of supply and to provide safety to the person handling the equipment

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015820

Option 1 ID : 64635062163

Option 2 ID : 64635062164

Option 3 ID : 64635062165

Option 4 ID : 64635062166

Status : Answered

Chosen Option : 3

Q.7 Match List-I with List-II :

List-I	List-II
(a) Ripple factor	(i) $\frac{1}{3\sqrt{2}} \frac{R_L}{\omega L}$
(b) Ripple factor of L-section filter	(ii) $\sqrt{\left(\frac{I_{L\max}}{I_{dc}}\right)^2 - 1}$
(c) Ripple factor of inductor filter	(iii) $\frac{\sqrt{2}}{3} \frac{1}{2\omega C} \frac{1}{2\omega L}$
(d) Percentage of regulation	(iv) $\frac{R_L}{R_L} \times 100\%$

Choose the correct option from those given below :

- (a)–(i); (b)–(ii); (c)–(iv); (d)–(iii)
- (a)–(ii); (b)–(iii); (c)–(i); (d)–(iv)
- (a)–(iii); (b)–(iv); (c)–(ii); (d)–(i)
- (a)–(iv); (b)–(i); (c)–(iii); (d)–(ii)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015874

Option 1 ID : 64635062379

Option 2 ID : 64635062380

Option 3 ID : 64635062381

Option 4 ID : 64635062382

Status : Answered

Chosen Option : 2

Q.8 Read the following statements regarding antennas :

- The rhombic antenna is a non-resonant antenna
- Marconi antenna is not wideband antenna
- Horn antenna is best excited from a waveguide

Choose the correct answer from the codes given below :

- (a) and (b) are correct but (c) is false
- (a), (b) and (c) are correct
- (a) is false but (b) and (c) are correct
- (a) and (c) are correct but (b) is false

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015867

Option 1 ID : 64635062351

Option 2 ID : 64635062352

Option 3 ID : 64635062353

Option 4 ID : 64635062354

Status : Answered

Chosen Option : 2

Q.9 The number of directed arcs terminating on any state of a state diagram is

1. 2^n where n is the number of inputs
2. 2^n where n is the number of flipflops in the circuit
3. independent of the number of inputs
4. dependent on the number of outputs

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015828

Option 1 ID : 64635062195

Option 2 ID : 64635062196

Option 3 ID : 64635062197

Option 4 ID : 64635062198

Status : Answered

Chosen Option : 1

Q.10 Assertion (A) : In satellite communication, uplink and downlink frequencies are kept different.

Reason (R) : The uplink frequency is chosen to be of lower value than the downlink frequency.

Choose the correct answer :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015892

Option 1 ID : 64635062451

Option 2 ID : 64635062452

Option 3 ID : 64635062453

Option 4 ID : 64635062454

Status : Answered

Chosen Option : 1

Q.11

Match List-I with List-II :

List-I	List-II
(a) $\sin \omega t$	(i) $\frac{\omega}{s^2 + \omega^2}$
(b) $\cos \omega t$	(ii) $\frac{s}{s^2 + \omega^2}$
(c) $\sinh bt$	(iii) $\frac{s}{s^2 - b^2}$
(d) $\cosh bt$	(iv) $\frac{b}{s^2 - b^2}$

Choose the correct option from those given below :

- (a)-(i); (b)-(ii); (c)-(iii); (d)-(iv)
- (a)-(ii); (b)-(i); (c)-(iv); (d)-(iii)
- (a)-(i); (b)-(ii); (c)-(iv); (d)-(iii)
- (a)-(ii); (b)-(i); (c)-(iii); (d)-(iv)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015876

Option 1 ID : 64635062387

Option 2 ID : 64635062388

Option 3 ID : 64635062389

Option 4 ID : 64635062390

Status : Answered

Chosen Option : 4

Q.12 Incidence matrix of a graph is given below :

$$A = \begin{bmatrix} -1 & 0 & 1 & 1 & -1 & 0 \\ 1 & -1 & 0 & 0 & 0 & -1 \\ 0 & 1 & -1 & -1 & 1 & 1 \end{bmatrix}$$

Number of possible trees are

- 12
- 11
- 8
- 14

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015817

Option 1 ID : 64635062151

Option 2 ID : 64635062152

Option 3 ID : 64635062153

Option 4 ID : 64635062154

Status : Answered

Chosen Option : 1

Q.13

What is the speed of satellite moving in an elliptical orbit at perigee and apogee?

1. Constant at both positions
2. Highest at perigee and lowest at apogee
3. Lowest at perigee and highest at apogee
4. Highest at both positions

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015840

Option 1 ID : 64635062243

Option 2 ID : 64635062244

Option 3 ID : 64635062245

Option 4 ID : 64635062246

Status : Answered

Chosen Option : 4

Q.14 In ion implantation for Gaussian distribution profile, with standard deviation σ_p , if the total dose is ϕ , then the peak concentration can be expressed as

1. $\phi\sigma_p$
2. $\frac{0.4\phi}{\sigma_p}$
3. $\frac{\sigma_p}{\phi}$
4. $\frac{\phi\sigma_p}{0.4}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015811

Option 1 ID : 64635062127

Option 2 ID : 64635062128

Option 3 ID : 64635062129

Option 4 ID : 64635062130

Status : Answered

Chosen Option : 3

Q.15 Which bit address is assigned to PCON register?

1. B8H
2. 78H
3. 80H
4. 87H

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015833

Option 1 ID : 64635062215

Option 2 ID : 64635062216

Option 3 ID : **64635062217**
Option 4 ID : **64635062218**
Status : **Answered**
Chosen Option : **3**

Q.16 Velocity factor of transmission line

1. is directly proportional to the dielectric constant of insulation between conductors
2. is inversely proportional to the dielectric constant of insulation between conductors
3. is inversely proportional to the square root of dielectric constant of insulation between conductors
4. does not depend on dielectric constant of insulation between conductors

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **64635015834**
Option 1 ID : **64635062219**
Option 2 ID : **64635062220**
Option 3 ID : **64635062221**
Option 4 ID : **64635062222**
Status : **Answered**
Chosen Option : **1**

Q.17 Which of the following parameters correctly describes a good current buffer?

1. High input impedance and high output impedance
2. High input impedance and low output impedance
3. Low input impedance and high output impedance
4. Low input impedance and low output impedance

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **64635015822**
Option 1 ID : **64635062171**
Option 2 ID : **64635062172**
Option 3 ID : **64635062173**
Option 4 ID : **64635062174**
Status : **Answered**
Chosen Option : **1**

Q.18

The field effect transistor has

- (a) very high input resistance
- (b) high electrical noise
- (c) low input resistance
- (d) low electrical noise

Choose the correct option :

- 1. (a) and (d) are correct
- 2. (b) and (c) are correct
- 3. (c) and (d) are correct
- 4. (a) and (b) are correct

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015855

Option 1 ID : 64635062303

Option 2 ID : 64635062304

Option 3 ID : 64635062305

Option 4 ID : 64635062306

Status : Answered

Chosen Option : 4

Q.19 At certain loading condition, back e.m.f. in DC motor was found half of the supply voltage. Then power delivered by DC motor is

- 1. half of the rated power
- 2. maximum
- 3. minimum
- 4. double of the rated power

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015846

Option 1 ID : 64635062267

Option 2 ID : 64635062268

Option 3 ID : 64635062269

Option 4 ID : 64635062270

Status : Answered

Chosen Option : 3

Q.20 In forward blocking region of SCR which of the following statements is correct?

- 1. Outer junction J_1 and J_3 are in reversed biased while middle junction J_2 is forward biased
- 2. Outer junctions J_1 and J_3 are in forward biased while J_2 is in reversed biased
- 3. Junctions J_1 and J_2 are in forward biased while junction J_3 is in reversed biased
- 4. All the three junctions J_1 , J_2 and J_3 are in forward biased

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
 Question ID : 64635015848
 Option 1 ID : 64635062275
 Option 2 ID : 64635062276
 Option 3 ID : 64635062277
 Option 4 ID : 64635062278
 Status : Answered
 Chosen Option : 4

Q.21 For TE₁₀ mode of propagation in a rectangular waveguide filled with air, the broader dimension is 2 cm. The cut-off frequency is

- 1. 7.5 GHz
- 2. 7.5 MHz
- 3. 750 GHz
- 4. 0.75 GHz

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
 Question ID : 64635015838
 Option 1 ID : 64635062235
 Option 2 ID : 64635062236
 Option 3 ID : 64635062237
 Option 4 ID : 64635062238
 Status : Answered
 Chosen Option : 4

Q.22 Which of the following is hybrid parameter h_{22} of a two-port network?

- 1. $\left. \frac{I_2}{V_2} \right|_{I_1=0}$
- 2. $\left. \frac{V_2}{I_2} \right|_{V_1=0}$
- 3. $\left. \frac{V_2}{V_1} \right|_{I_2=0}$
- 4. $\left. \frac{I_2}{I_1} \right|_{V_2=0}$

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
 Question ID : 64635015818
 Option 1 ID : 64635062155
 Option 2 ID : 64635062156
 Option 3 ID : 64635062157
 Option 4 ID : 64635062158
 Status : Answered
 Chosen Option : 1

Q.23

Which of the following is 16 bit register of 8051 microcontroller?

1. DPL
2. SBUF
3. SP
4. TCON

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015830

Option 1 ID : 64635062203

Option 2 ID : 64635062204

Option 3 ID : 64635062205

Option 4 ID : 64635062206

Status : Answered

Chosen Option : 2

Q.24 The equation for $f(E)$ is the Fermi-Dirac probability function and is

1. $\frac{1}{1 + \exp[(E - E_F) / kT]}$
2. $\frac{1}{1 - \exp[(E - E_F) / kT]}$
3. $\frac{1}{1 + \exp[(E_F - E) / kT]}$
4. $\frac{1}{1 - \exp[(E_F - E) / kT]}$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015805

Option 1 ID : 64635062103

Option 2 ID : 64635062104

Option 3 ID : 64635062105

Option 4 ID : 64635062106

Status : Answered

Chosen Option : 1

Q.25 In an open circuited p - n junction, the contact difference of potential is

1. $\frac{kT}{q}$
2. $\frac{kT}{q} \ln \frac{N_A N_D}{n_i^2}$
3. $\frac{kT}{q} \ln \frac{N_D}{n_i}$
4. $\frac{kT}{q} \ln \frac{N_A}{N_D, n_i^2}$

Options 1. 1

2. 2
3. 3

4. 4

Question Type : MCQ

Question ID : 64635015804

Option 1 ID : 64635062099

Option 2 ID : 64635062100

Option 3 ID : 64635062101

Option 4 ID : 64635062102

Status : Answered

Chosen Option : 4

Q.26 The preference for NMOS, when compared to other logic families arises

- (a) as it uses more silicon area
- (b) as it consumes less static power
- (c) as it utilizes smaller silicon area
- (d) as it has higher input impedance

Which of the following options is correct?

- 1. Both (a) and (b) are correct
- 2. Both (c) and (b) are correct
- 3. (c) is correct but (d) is wrong
- 4. (b) is correct but (a) is wrong

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015862

Option 1 ID : 64635062331

Option 2 ID : 64635062332

Option 3 ID : 64635062333

Option 4 ID : 64635062334

Status : Answered

Chosen Option : 1

Q.27 For a two-port network $A = x_1$, $B = x_2$, $C = 1/x_2$. For the network to be reciprocal, D is equal to

- 1. $1/x_1$
- 2. 0
- 3. $2/x_1$
- 4. $2/x_2$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015815

Option 1 ID : 64635062143

Option 2 ID : 64635062144

Option 3 ID : 64635062145

Option 4 ID : 64635062146

Status : Answered

Chosen Option : 1

Q.28

Which of the following components are used for bias compensation in transistor circuits?

1. Thermistors only
2. Rectifying diodes only
3. Both thermistors and rectifying diodes
4. A combination of resistors

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015823

Option 1 ID : 64635062175

Option 2 ID : 64635062176

Option 3 ID : 64635062177

Option 4 ID : 64635062178

Status : Answered

Chosen Option : 3

Q.29 In a $p-n$ junction solar cell under low injection condition, the one-dimensional continuity equations are

$$(a) \quad G_n - \frac{n_p - n_{p0}}{\tau_n} + \frac{1}{q} \frac{dJ_n}{dn} = 0$$

$$(b) \quad G_n + \frac{n_p - n_{p0}}{\tau_n} - \frac{1}{q} \frac{dJ_n}{dn} = 0$$

$$(c) \quad G_p - \frac{P_n - P_{n0}}{\tau_p} - \frac{1}{q} \frac{dJ_p}{dn} = 0$$

$$(d) \quad G_p + \frac{P_n - P_{n0}}{\tau_p} - \frac{1}{q} \frac{dJ_p}{dn} = 0$$

Choose the correct option :

1. (a) and (b) are correct
2. (c) and (d) are correct
3. (a) and (c) are correct
4. (b) and (d) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015857

Option 1 ID : 64635062311

Option 2 ID : 64635062312

Option 3 ID : 64635062313

Option 4 ID : 64635062314

Status : Answered

Chosen Option : 3

Q.30

Match List-I with List-II in case of 8086 microprocessor :

List-I	List-II
(a) BIU	(i) FIFO buffer that can store up to six bytes of instruction code
(b) EU	(ii) Responsible for performing all external bus operations
(c) IP	(iii) Responsible for decoding and execution of all instructions
(d) Queue	(iv) Contains the offset or logical address of the next byte to be read from the CS

Choose the correct option from those given below :

- (a)-(iii); (b)-(iv); (c)-(i); (d)-(ii)
- (a)-(iii); (b)-(ii); (c)-(iv); (d)-(i)
- (a)-(ii); (b)-(iii); (c)-(i); (d)-(iv)
- (a)-(ii); (b)-(iii); (c)-(iv); (d)-(i)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015879

Option 1 ID : 64635062399

Option 2 ID : 64635062400

Option 3 ID : 64635062401

Option 4 ID : 64635062402

Status : Answered

Chosen Option : 4

Q.31 Match List-I with List-II :

List-I	List-II
(a) Baudot code	(i) Permits the correction of errors by receiver without retransmission
(b) Hamming code	(ii) Provides no error detection at all
(c) Error detecting code	(iii) Permits the detection of two errors or correction of only one error
(d) Forward error correcting code	(iv) Uses an extra parity bit at the end of each word to detect errors in received data

Choose the correct option from those given below :

- (a)-(ii); (b)-(iii); (c)-(iv); (d)-(i)
- (a)-(iii); (b)-(ii); (c)-(i); (d)-(iv)
- (a)-(iv); (b)-(ii); (c)-(i); (d)-(iii)
- (a)-(ii); (b)-(iii); (c)-(i); (d)-(iv)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015881

Option 1 ID : 64635062407

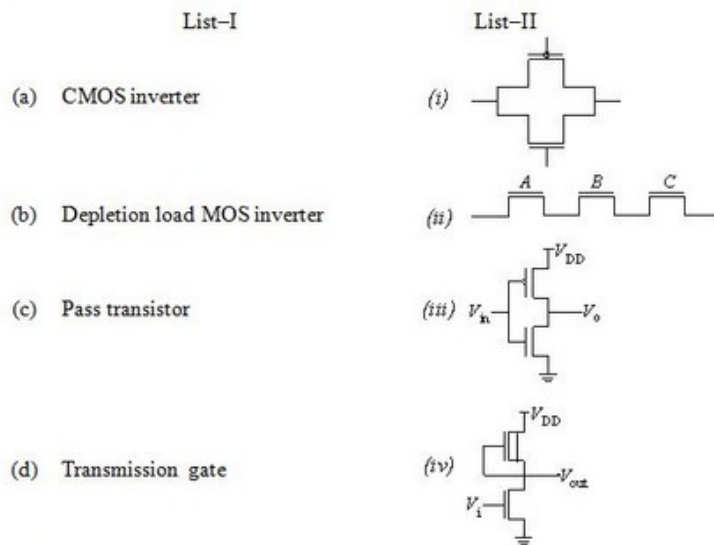
Option 2 ID : 64635062408

Option 3 ID : 64635062409

Option 4 ID : 64635062410

Status : **Answered**
Chosen Option : 1

Q.32 Match List-I with List-II :



Choose the correct option from those given below :

1. (a)-(iii); (b)-(iv); (c)-(ii); (d)-(i)
2. (a)-(iv); (b)-(i); (c)-(iii); (d)-(ii)
3. (a)-(i); (b)-(ii); (c)-(iv); (d)-(iii)
4. (a)-(ii); (b)-(iii); (c)-(i); (d)-(iv)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635015875**

Option 1 ID : **64635062383**

Option 2 ID : **64635062384**

Option 3 ID : **64635062385**

Option 4 ID : **64635062386**

Status : **Answered**

Chosen Option : 3

Q.33 If the desired transmission bit rate for a coherent binary FSK system is 4 Kbits/sec, the best possible interval between the carriers is

1. 0.25 mS
2. 0.5 mS
3. 1 mS
4. 5 mS

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635015841**

Option 1 ID : **64635062247**

Option 2 ID : **64635062248**

Option 3 ID : **64635062249**

Option 4 ID : **64635062250**

Status : **Answered**
Chosen Option : **2**

Q.34 If the forward bias is applied to the diode, holes are injected from p side to n side, the concentration P_n of holes in the n side above its thermal equilibrium value $P_{n(0)}$ is given by

1. $P_{n0} - P_{n(0)} \exp(-x/L_p)$
2. $P_{n0} + P_{n(0)} \exp(+x/L_p)$
3. $P_{n0} + P_{n(0)} \exp(-x/L_p)$
4. $P_{n0} - P_{n(0)} \exp(+x/L_p)$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635015806**
Option 1 ID : **64635062107**
Option 2 ID : **64635062108**
Option 3 ID : **64635062109**
Option 4 ID : **64635062110**
Status : **Answered**
Chosen Option : **2**

Q.35 In X-ray lithography if S is the size of the X-ray source, g is the gap between wafer and mask and D is the distance between the source and the mask, then the blur is

1. $\frac{D}{gS}$
2. $\frac{gS}{D}$
3. $D - gS$
4. $\frac{g - D}{S}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635015810**
Option 1 ID : **64635062123**
Option 2 ID : **64635062124**
Option 3 ID : **64635062125**
Option 4 ID : **64635062126**
Status : **Answered**
Chosen Option : **1**

Q.36

The following statements are given about programmable logic array PLA :

- (a) It is easier to manufacture and program than a PROM and a PAL
- (b) It combines the characteristics of a PROM and a PAL by providing both a programmable AND array and a programmable OR array
- (c) In a PLA, both AND gates and OR gates have fusible links at the inputs

Choose the correct option :

- 1. (a) is true but both (b) and (c) are false
- 2. (a) and (b) are true but (c) is false
- 3. (a) and (c) are false but (b) is true
- 4. (a) is false but both (b) and (c) are true

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015863

Option 1 ID : 64635062335

Option 2 ID : 64635062336

Option 3 ID : 64635062337

Option 4 ID : 64635062338

Status : Answered

Chosen Option : 4

Q.37 The MOSFET will have higher cut-off frequency, if

- 1. g_m is large and c_{gs} is small
- 2. g_m and c_{gs} both are large
- 3. g_m and c_{gs} both are small
- 4. g_m is small but c_{gs} is large

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015813

Option 1 ID : 64635062135

Option 2 ID : 64635062136

Option 3 ID : 64635062137

Option 4 ID : 64635062138

Status : Answered

Chosen Option : 4

Q.38 A platinum RTD has a resistance of 100 ohm at $^{\circ}\text{C}$. If temperature coefficient is $0.004/^{\circ}\text{C}$, what would be the change in resistance if temperature rise is 50°C ?

- 1. 10 Ω
- 2. 15 Ω
- 3. 20 Ω
- 4. 25 Ω

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ

Question ID : 64635015850

Option 1 ID : 64635062283

Option 2 ID : 64635062284

Option 3 ID : 64635062285

Option 4 ID : 64635062286

Status : Answered

Chosen Option : 3

Q.39 Match List-I with List-II :

List-I (Characteristics)	List-II (Logic Family)
(a) Improved noise immunity/ increased complexity	(i) TTL
(b) Fastest of all logic families/ Greater power consumption	(ii) ECL
(c) Most popular logic family/ Moderate packing density	(iii) MOS
(d) Simplest to fabricate/Susceptible to static charge dosage	(iv) CMOS

Choose the correct option from those given below :

- (a)-(iv); (b)-(ii); (c)-(i); (d)-(iii)
- (a)-(ii); (b)-(iii); (c)-(i); (d)-(iv)
- (a)-(ii); (b)-(iii); (c)-(iv); (d)-(i)
- (a)-(i); (b)-(iv); (c)-(ii); (d)-(iii)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015878

Option 1 ID : 64635062395

Option 2 ID : 64635062396

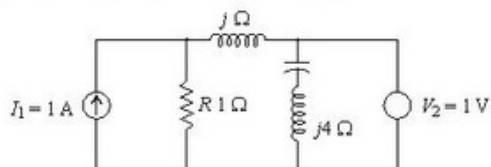
Option 3 ID : 64635062397

Option 4 ID : 64635062398

Status : Answered

Chosen Option : 1

Q.40 By applying principle of superposition to the circuit

voltage V across resistance R is

- 5 V
- 4 V
- 2 V
- 1 V

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015816

Option 1 ID : 64635062147

Option 2 ID : 64635062148

Option 3 ID : 64635062149

Option 4 ID : 64635062150

Status : Answered

Chosen Option : 1

Q.41 Which of the following are control flags of 8086 microprocessor?

- (a) Carry flag
- (b) Zero flag
- (c) Trap flag
- (d) Direction flag

Choose the correct answer :

- 1. (a) and (b)
- 2. (c) and (d)
- 3. (a) and (c)
- 4. (b) and (d)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015868

Option 1 ID : 64635062355

Option 2 ID : 64635062356

Option 3 ID : 64635062357

Option 4 ID : 64635062358

Status : Answered

Chosen Option : 1

Q.42 Which of the following are advantages of LASER over LED?

- (a) Higher bandwidth and higher data rate
- (b) Higher output power
- (c) Longer lifetime
- (d) Cheap

Select the correct answer :

- 1. (c) and (d)
- 2. (a) and (b)
- 3. (a), (b) and (c)
- 4. (b), (c) and (d)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015869

Option 1 ID : 64635062359

Option 2 ID : 64635062360

Option 3 ID : 64635062361

Option 4 ID : 64635062362

Status : Answered

Chosen Option : 4

Q.43 Assertion (A) : 8086 microprocessor is a true 16-bit microprocessor.

Reason (R) : It consists of two main sections, bus interface unit (BIU) and execution unit (EU).

Choose the correct answer :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015891

Option 1 ID : 64635062447

Option 2 ID : 64635062448

Option 3 ID : 64635062449

Option 4 ID : 64635062450

Status : Answered

Chosen Option : 1

Q.44 Nodal method of circuit analysis is based on

- (a) KVL and Ohm's law
- (b) KVL, KCL and Ohm's law
- (c) KCL and KVL
- (d) KCL and Ohm's law

Which of the following options is correct?

1. (a) and (b) are correct
2. (c) and (d) are correct
3. (d) is wrong but (a) is correct
4. (d) is correct but (b) is wrong

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015859

Option 1 ID : 64635062319

Option 2 ID : 64635062320

Option 3 ID : 64635062321

Option 4 ID : 64635062322

Status : Answered

Chosen Option : 3

Q.45

Assertion (A) : A code converter is a logic circuit whose inputs are bit patterns representing numbers in one code and whose outputs are the corresponding representations in a different code.

Reason (R) : A sequential circuit performs this transformation by means of logic gates.

Choose the correct answer :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015890

Option 1 ID : 64635062443

Option 2 ID : 64635062444

Option 3 ID : 64635062445

Option 4 ID : 64635062446

Status : Answered

Chosen Option : 1

Q.46 A capacitance transducer can be used for the measurement of

1. moisture
2. thickness
3. displacement
4. All of the above

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015849

Option 1 ID : 64635062279

Option 2 ID : 64635062280

Option 3 ID : 64635062281

Option 4 ID : 64635062282

Status : Answered

Chosen Option : 4

Q.47 There is a spectrum analyzer with a third-order intercept point of +30 dB and noise level of -95 dB. Dynamic range of the spectrum analyzer is approximately

1. 83 dB
2. 73 dB
3. 187 dB
4. 41 dB

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015851

Option 1 ID : **64635062287**
Option 2 ID : **64635062288**
Option 3 ID : **64635062289**
Option 4 ID : **64635062290**
Status : **Answered**
Chosen Option : **2**

Q.48 Which type of optical fiber is used to eliminate modal dispersion during optical communication?

1. Single mode step index fiber
2. Multimode step index fiber
3. Multimode graded index fiber
4. Does not depend on type of fiber

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635015839**
Option 1 ID : **64635062239**
Option 2 ID : **64635062240**
Option 3 ID : **64635062241**
Option 4 ID : **64635062242**
Status : **Answered**
Chosen Option : **2**

Q.49 Arrange the following in terms of decreasing order of their propagation delay :

- (a) RTL
- (b) ECL
- (c) TTL
- (d) CMOS

The correct sequence of decreasing order of propagation delay is

1. (a), (d), (c), (b)
2. (a), (b), (d), (c)
3. (d), (a), (c), (b)
4. (b), (d), (c), (a)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635015886**
Option 1 ID : **64635062427**
Option 2 ID : **64635062428**
Option 3 ID : **64635062429**
Option 4 ID : **64635062430**
Status : **Answered**
Chosen Option : **3**

Q.50

The pin signals of 8051 microcontroller are as follows :

- (a) $\overline{\text{PSEN}}$
- (b) $\overline{\text{RD}}$
- (c) $\overline{\text{R}\times\text{D}}$
- (d) $\overline{\text{EA}}$

Arrange them in ascending order of their pin numbers. Choose the correct option :

1. (c), (b), (a), (d)
2. (b), (c), (d), (a)
3. (d), (a), (b), (c)
4. (a), (b), (d), (c)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015887

Option 1 ID : 64635062431

Option 2 ID : 64635062432

Option 3 ID : 64635062433

Option 4 ID : 64635062434

Status : Answered

Chosen Option : 2

Q.51

The evaporating rate R from a clean surface is related to the equilibrium vapour pressure P_s (in pascal) of the evaporating species (M is the molecular weight in gm) by a relation

- (a) $R = 4.43 \times 10^{-4} \left(\frac{M}{T} \right)^{1/2} P_s$
- (b) $R = 4.43 \times 10^{-4} \left(\frac{M}{T} \right) P_s$
- (c) $R = 4.43 \times 10^{-4} \left(\frac{M}{kT} \right)^{1/2} P_s$
- (d) $R = 4.43 \times 10^{-4} \left(\frac{M}{T} \right)^{3/2} P_s$

Choose the correct option :

1. (a) is correct but (c) is wrong
2. (a) is wrong but (d) is correct
3. Both (a) and (b) are correct
4. (a), (b) and (d) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015856

Option 1 ID : 64635062307

Option 2 ID : 64635062308

Option 3 ID : 64635062309

Option 4 ID : 64635062310

Status : Answered

Chosen Option : 1

Q.52 Match List-I with List-II :

List-I	List-II
(a) LVDT	(i) Gas flow
(b) Dielectric gauge	(ii) Displacement
(c) Pirani gauge	(iii) Liquid level
(d) Piezo-electric	(iv) Acceleration

Choose the correct option from those given below :

- (a)–(ii); (b)–(iii); (c)–(i); (d)–(iv)
- (a)–(i); (b)–(iv); (c)–(ii); (d)–(iii)
- (a)–(i); (b)–(iv); (c)–(iii); (d)–(ii)
- (a)–(ii); (b)–(iii); (c)–(iv); (d)–(i)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015883

Option 1 ID : 64635062415

Option 2 ID : 64635062416

Option 3 ID : 64635062417

Option 4 ID : 64635062418

Status : Answered

Chosen Option : 4

Q.53 Which one of the following is equivalent to the Boolean expression $Y = AB + BC + CA$?

- $\overline{AB + BC + CA}$
- $(\overline{A} + \overline{B})(\overline{B} + \overline{C})(\overline{C} + \overline{A})$
- $(\overline{A} + \overline{B})(\overline{B} + \overline{C})(\overline{C} + \overline{A})$
- $\overline{(\overline{A} + \overline{B})(\overline{B} + \overline{C})(\overline{C} + \overline{A})}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015827

Option 1 ID : 64635062191

Option 2 ID : 64635062192

Option 3 ID : 64635062193

Option 4 ID : 64635062194

Status : Answered

Chosen Option : 2

Q.54

Match List-I with List-II :

- | List-I | List-II |
|---|--------------------|
| (a) $\nabla \cdot \vec{D} = \rho$ | (i) Ampere's law |
| (b) $\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$ | (ii) Faraday's law |
| (c) $\nabla \times \vec{H} = \vec{J} + \frac{\partial \vec{D}}{\partial t}$ | (iii) Gauss's Law |

Choose the correct option from those given below :

1. (a)–(i); (b)–(ii); (c)–(iii)
2. (a)–(ii); (b)–(i); (c)–(iii)
3. (a)–(i); (b)–(iii); (c)–(ii)
4. (a)–(iii); (b)–(ii); (c)–(i)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015880

Option 1 ID : 64635062403

Option 2 ID : 64635062404

Option 3 ID : 64635062405

Option 4 ID : 64635062406

Status : Answered

Chosen Option : 3

Q.55 Important elements of cathode ray tube are given below :

- (a) Pre-accelerating anode
- (b) Accelerating anode
- (c) Focusing anode
- (d) Heated cathode

Correct sequence of the above elements in a CRT in the direction of electron beam is

1. (a), (b), (c), (d)
2. (a), (c), (b), (d)
3. (d), (a), (c), (b)
4. (d), (c), (a), (b)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015888

Option 1 ID : 64635062435

Option 2 ID : 64635062436

Option 3 ID : 64635062437

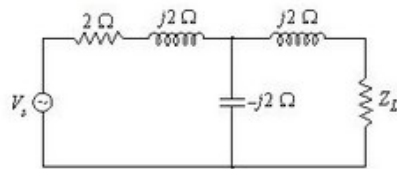
Option 4 ID : 64635062438

Status : Answered

Chosen Option : 1

Q.56

In the figure below, impedance value of load Z_L which will cause maximum power to be transferred to the load, is



1. $(2 + j2)\Omega$
2. $-j2\Omega$
3. 2Ω
4. $(2j - 2)\Omega$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015814

Option 1 ID : 64635062139

Option 2 ID : 64635062140

Option 3 ID : 64635062141

Option 4 ID : 64635062142

Status : Answered

Chosen Option : 1

Q.57 In a Schering bridge, dial of variable capacitor is calibrated directly in terms of dissipation factor of unknown arm. At 50 Hz frequency the value of dissipation factor of unknown capacitor was found to be D . What would be the value of dissipation factor at 60 Hz?

1. $6D$
2. $1/6D$
3. $5/6D$
4. $6/5D$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015853

Option 1 ID : 64635062295

Option 2 ID : 64635062296

Option 3 ID : 64635062297

Option 4 ID : 64635062298

Status : Answered

Chosen Option : 4

Q.58

Thermal runaway in a transistor biased in the active region is primarily due to

- (a) heating of the transistor
- (b) changes in β , which increases with temperature
- (c) base emitter voltage V_{BE} which decreases with rise in temperature
- (d) change in reverse saturation current due to rise in temperature

Which of the following options is correct?

- 1. (a) and (b) are correct
- 2. (c) and (b) are correct
- 3. (c) is correct and (d) is wrong
- 4. (c) is wrong and (d) is correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015860

Option 1 ID : 64635062323

Option 2 ID : 64635062324

Option 3 ID : 64635062325

Option 4 ID : 64635062326

Status : Answered

Chosen Option : 2

Q.59 If the contents of register AX is 4C26H, which of the following instructions clear the contents of accumulator (AX) in case of 8086 microprocessor?

- (a) NOT AX
- (b) XOR AX, AX
- (c) SUB AX, AX
- (d) NEG AX

Choose the correct answer :

- 1. (a) and (c)
- 2. (b) and (c)
- 3. (b), (c) and (d)
- 4. (a) and (b)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015865

Option 1 ID : 64635062343

Option 2 ID : 64635062344

Option 3 ID : 64635062345

Option 4 ID : 64635062346

Status : Answered

Chosen Option : 3

Q.60

Following statements are given for electro-dynamometer-type instruments :

- (a) It is used for a.c. quantities only
- (b) It is used for both a.c. and d.c. quantities
- (c) It can be used to measure power and frequency
- (d) It has only one coil

Out of the above statements, which are correct?

- 1. (a) and (b) are correct
- 2. (b) and (c) are correct
- 3. (c) and (d) are correct
- 4. (d) and (a) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015873

Option 1 ID : 64635062375

Option 2 ID : 64635062376

Option 3 ID : 64635062377

Option 4 ID : 64635062378

Status : Answered

Chosen Option : 2

Q.61 For an RC phase shift oscillator, the following statements are cited :

- (a) Amplifier gain is negative
- (b) Phase shift introduced by feedback circuit is either 0 or 360°
- (c) Amplifier gain is positive
- (d) Phase shift introduced by feedback circuit is 180°

Which of the following options is correct?

- 1. Only (a) is correct and rest are incorrect
- 2. Only (c) is correct and rest are incorrect
- 3. Both (a) and (d) are correct
- 4. Both (b) and (c) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015861

Option 1 ID : 64635062327

Option 2 ID : 64635062328

Option 3 ID : 64635062329

Option 4 ID : 64635062330

Status : Answered

Chosen Option : 2

Q.62

List of transducers are given below :

- (a) Photoconductive cell
- (b) Photovoltaic cell
- (c) Piezoelectric
- (d) Thermistor

Which of the above are active transducers?

- 1. (a) and (b)
- 2. (b) and (c)
- 3. (c) and (d)
- 4. (a), (b) and (c)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015872

Option 1 ID : 64635062371

Option 2 ID : 64635062372

Option 3 ID : 64635062373

Option 4 ID : 64635062374

Status : Answered

Chosen Option : 4

Q.63 Match List-I with List-II :

List-I (Analog Devices)	List-II (I/P impedances)
(a) BJT	(i) $> 10^{12} \Omega$
(b) MOSFET	(ii) $> 10^{10} \Omega$
(c) JFET	(iii) $> 10^8 \Omega$
(d) MESFET	(iv) $< 10^4 \Omega$

Choose the correct option from those given below :

- 1. (a)–(iv); (b)–(iii); (c)–(i); (d)–(ii)
- 2. (a)–(i); (b)–(ii); (c)–(iii); (d)–(iv)
- 3. (a)–(iii); (b)–(i); (c)–(ii); (d)–(iv)
- 4. (a)–(iv); (b)–(ii); (c)–(iii); (d)–(i)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015877

Option 1 ID : 64635062391

Option 2 ID : 64635062392

Option 3 ID : 64635062393

Option 4 ID : 64635062394

Status : Answered

Chosen Option : 4

Q.64

An SCR is connected across 200 V battery through 0.2 H inductance. If the latching current in the circuit is 3 mA, what is the minimum width of the gating pulse required to properly turn on the SCR?

1. 1 μ S
2. 2 μ S
3. 3 μ S
4. 4 μ S

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015847

Option 1 ID : 64635062271

Option 2 ID : 64635062272

Option 3 ID : 64635062273

Option 4 ID : 64635062274

Status : Answered

Chosen Option : 1

Q.65 Which of the following statements is not correct about a universal shift register?

1. Universal shift register is a bidirectional register whose inputs can be either in serial form or in parallel form
2. Universal shift register generates internal clock to synchronize the operations
3. We need 'N' number of D flipflops and 'N' number of MUX to design N-bit universal shift register
4. Universal shift register has a clear control that clears the contents of register to 0

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015825

Option 1 ID : 64635062183

Option 2 ID : 64635062184

Option 3 ID : 64635062185

Option 4 ID : 64635062186

Status : Answered

Chosen Option : 4

Q.66 Transfer function of an electrical low pass RC network are

- (a) $RCs / (1 + RCs)$
- (b) $RC / (1 + RCs)$
- (c) $1 / (1 + RCs)$
- (d) $s / (1 + RCs)$

Choose the correct option :

1. (a) and (b) both are correct
2. (c) and (d) both are correct
3. (b) is correct but (d) is not correct
4. (a) is correct but (b) is not correct

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 64635015858
Option 1 ID : 64635062315
Option 2 ID : 64635062316
Option 3 ID : 64635062317
Option 4 ID : 64635062318
Status : Answered
Chosen Option : 2

Q.67 If 8051 microcontroller is rated at 25 MHz, what is the maximum frequency that can be connected to it?

- 1. 12.5 MHz
- 2. 25 MHz
- 3. 50 MHz
- 4. 30 MHz

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 64635015832
Option 1 ID : 64635062211
Option 2 ID : 64635062212
Option 3 ID : 64635062213
Option 4 ID : 64635062214
Status : Answered
Chosen Option : 3

Q.68 A 250 MHz electromagnetic wave is propagating through a perfect non-magnetic dielectric with $\epsilon_r = 6$. Its wavelength will be equal to

- 1. 0.245 m
- 2. 0.490 m
- 3. 49 m
- 4. 4.9 m

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : MCQ
Question ID : 64635015837
Option 1 ID : 64635062231
Option 2 ID : 64635062232
Option 3 ID : 64635062233
Option 4 ID : 64635062234
Status : Answered
Chosen Option : 1

Q.69

In a Zener diode shunt voltage regulator, the diode regulates so long as is kept in

- (a) forward condition
- (b) reverse condition
- (c) loaded condition
- (d) unloaded condition

Choose the correct option :

- 1. (a) is correct but (b) is wrong
- 2. (b) is correct but (d) is wrong
- 3. (c) is correct but (d) is wrong
- 4. (a) and (d) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015854

Option 1 ID : 64635062299

Option 2 ID : 64635062300

Option 3 ID : 64635062301

Option 4 ID : 64635062302

Status : Answered

Chosen Option : 1

Q.70 Which of the following uses slow wave structure?

- 1. Reflex klystron
- 2. Travelling wave tube
- 3. Magnetron
- 4. Gunn diode

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015835

Option 1 ID : 64635062223

Option 2 ID : 64635062224

Option 3 ID : 64635062225

Option 4 ID : 64635062226

Status : Answered

Chosen Option : 1

Q.71 What is the relation between bandwidth B of BPSK signal and the bandwidth B_m of M-ary PSK signal, for a given data rate?

- 1. $B_m = MB$
- 2. $B_m = B \log_2 M$
- 3. $B = B_m \log_2 M$
- 4. $B = M \cdot B_m$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635015843
Option 1 ID : 64635062255
Option 2 ID : 64635062256
Option 3 ID : 64635062257
Option 4 ID : 64635062258
Status : Answered
Chosen Option : 3

Q.72 Which is invalid 8051 microcontroller instruction?

1. MOVX @DPTR, A
2. RA A
3. MOV DPTR, # 2500
4. DA B

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635015831
Option 1 ID : 64635062207
Option 2 ID : 64635062208
Option 3 ID : 64635062209
Option 4 ID : 64635062210
Status : Answered
Chosen Option : 4

Q.73 Contents of which memory location is transferred to register AL after execution of the following 8086 program?

```
MOV CX, 2050H
MOV DS, CX
MOV AL, [F025]
```

1. 0F025
2. F0250
3. 2F525
4. 20500

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635015829
Option 1 ID : 64635062199
Option 2 ID : 64635062200
Option 3 ID : 64635062201
Option 4 ID : 64635062202
Status : Answered
Chosen Option : 2

Q.74

The correct combination of characteristic equation Q_{n+1} of S-R flipflop and J-K flipflop respectively is

1. $Q_n R + \bar{S}$ and $JQ_n + \bar{K}Q_n$
2. $\bar{Q}_n R + S$ and $JQ_n + \bar{K}Q_n$
3. $Q_n \bar{R} + S$ and $JQ_n + \bar{K}\bar{Q}_n$
4. $Q_n \bar{R} + S$ and $J\bar{Q}_n + \bar{K}Q_n$

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015826

Option 1 ID : 64635062187

Option 2 ID : 64635062188

Option 3 ID : 64635062189

Option 4 ID : 64635062190

Status : Answered

Chosen Option : 2

Q.75 For constant load and supply voltage, two DC series motors will develop maximum torque when both are connected in

1. series
2. parallel
3. series or parallel
4. None of the above

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015845

Option 1 ID : 64635062263

Option 2 ID : 64635062264

Option 3 ID : 64635062265

Option 4 ID : 64635062266

Status : Answered

Chosen Option : 2

Q.76 In a 10-bit PCM system, a message signal having maximum frequency of 4 KHz is to be transmitted. If the bit rate of this PCM system is 60 Kbits/sec, the appropriate sampling frequency is

1. 6 KHz
2. 7 KHz
3. 8 KHz
4. 9 KHz

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015842

Option 1 ID : 64635062251

Option 2 ID : 64635062252

Option 3 ID : **64635062253**
Option 4 ID : **64635062254**
Status : **Answered**
Chosen Option : **4**

Q.77 dV/dt protection is provided to thyristor circuit by using

1. triggering circuits
2. phase shifting circuits
3. commutation circuits
4. snubber circuits

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635015844**
Option 1 ID : **64635062259**
Option 2 ID : **64635062260**
Option 3 ID : **64635062261**
Option 4 ID : **64635062262**
Status : **Answered**
Chosen Option : **1**

Q.78 In a plane travelling wave

- (a) electric and magnetic energy densities are equal
- (b) electric energy density is more than magnetic energy density
- (c) magnetic energy density is zero
- (d) electric energy density is less than magnetic energy density

Choose the correct answer :

1. (a) is correct but (b) is wrong
2. (b) is correct but (c) is wrong
3. Both (a) and (b) are correct
4. Both (c) and (d) are correct

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **64635015866**
Option 1 ID : **64635062347**
Option 2 ID : **64635062348**
Option 3 ID : **64635062349**
Option 4 ID : **64635062350**
Status : **Answered**
Chosen Option : **1**

Q.79

Match List-I with List-II :

List-I (Bridges)	List-II (Applications)
(a) Hay Bridge	(i) Capacitance
(b) Maxwell Bridge	(ii) Frequency
(c) Schering Bridge	(iii) High Q-coils
(d) Wein Bridge	(iv) Medium Q-coils

Choose the correct option from those given below :

- (a)–(iv); (b)–(ii); (c)–(iii); (d)–(i)
- (a)–(iii); (b)–(iv); (c)–(ii); (d)–(i)
- (a)–(iv); (b)–(ii); (c)–(i); (d)–(iii)
- (a)–(iii); (b)–(iv); (c)–(i); (d)–(ii)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015882

Option 1 ID : 64635062411

Option 2 ID : 64635062412

Option 3 ID : 64635062413

Option 4 ID : 64635062414

Status : Answered

Chosen Option : 2

Q.80 Following statements are given for control systems :

- Transfer function is a ratio of Laplace transform of output to input considering initial conditions are zero.
- Transfer function is a ratio of Laplace transform of output to input irrespective of initial conditions.
- Error signal is a difference of reference signal and feedback signal.
- In signal flow graph the input is divided by transmittance to obtain the output signal.

Which of the following is correct?

- (a) and (c) are correct
- (b) and (c) are correct
- (a) and (d) are correct
- (b) and (d) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015871

Option 1 ID : 64635062367

Option 2 ID : 64635062368

Option 3 ID : 64635062369

Option 4 ID : 64635062370

Status : Answered

Chosen Option : 4

Q.81

In DC generators, wave windings are preferred for

- (a) high current, low voltage
- (b) high current, high voltage
- (c) low current, high voltage
- (d) low current, low voltage

Which of the following is correct?

- 1. Both (a) and (b) are correct
- 2. Both (c) and (d) are correct
- 3. (c) is correct but (a) is incorrect
- 4. (a) is correct but (d) is incorrect

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015870

Option 1 ID : 64635062363

Option 2 ID : 64635062364

Option 3 ID : 64635062365

Option 4 ID : 64635062366

Status : Answered

Chosen Option : 3

Q.82 The Ebers-Moll equation for the emitter current is

- 1. $a_{11} \left[\exp \left(\frac{V_E}{V_T} \right) - 1 \right] + a_{12} \left[\exp \left(\frac{V_C}{V_T} \right) - 1 \right]$
- 2. $a_{11} \left[\exp \left(\frac{V_C}{V_T} \right) - 1 \right] + a_{12} \left[\exp \left(\frac{V_E}{V_T} \right) - 1 \right]$
- 3. $a_{11} \left[\exp \left(\frac{V_E}{V_T} \right) + 1 \right] + a_{12} \left[\exp \left(\frac{V_C}{V_T} \right) + 1 \right]$
- 4. $a_{11} \left[\exp \left(\frac{V_C}{V_T} \right) + 1 \right] + a_{12} \left[\exp \left(\frac{V_E}{V_T} \right) + 1 \right]$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015807

Option 1 ID : 64635062111

Option 2 ID : 64635062112

Option 3 ID : 64635062113

Option 4 ID : 64635062114

Status : Answered

Chosen Option : 4

Q.83

In which of the following configurations, Miller effect capacitance is not a contributing concern for high-frequency applications?

1. Common emitter configuration only
2. Common base configuration only
3. Emitter follower configuration only
4. Both common base and emitter follower configurations

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015821

Option 1 ID : 64635062167

Option 2 ID : 64635062168

Option 3 ID : 64635062169

Option 4 ID : 64635062170

Status : Answered

Chosen Option : 3

Q.84 Arrange in order of the increasing vacuum work function for the below mentioned metals :

- (a) Au
- (b) Ni
- (c) Ag
- (d) Al

Which of the following options is correct?

1. (d), (c), (b), (a)
2. (c), (d), (a), (b)
3. (b), (a), (c), (d)
4. (a), (b), (d), (c)

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015884

Option 1 ID : 64635062419

Option 2 ID : 64635062420

Option 3 ID : 64635062421

Option 4 ID : 64635062422

Status : Answered

Chosen Option : 4

Q.85

The resistivity measurements are made on the flat ends of the crystal by the four point probe technique. The current I is passed through the outer probes and voltage is measured between the inner probes. If S is the probe spacing in centimetre, the measure resistance is converted to resistivity using the formula

1. $\left(\frac{V}{I}\right)S$
2. $\left(\frac{V}{I}\right)2\pi S$
3. $\left(\frac{I}{V}\right)2\pi S$
4. $\left(\frac{I}{V}\right)2\pi$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015809

Option 1 ID : 64635062119

Option 2 ID : 64635062120

Option 3 ID : 64635062121

Option 4 ID : 64635062122

Status : Answered

Chosen Option : 3

Q.86 The device which is used for detecting light intensity is

1. LED
2. LCD
3. photodiode
4. P-I-N diode

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015808

Option 1 ID : 64635062115

Option 2 ID : 64635062116

Option 3 ID : 64635062117

Option 4 ID : 64635062118

Status : Answered

Chosen Option : 3

Q.87

Following are few statements regarding noise in communication system :

- (a) Atmospheric noise, shot noise, solar noise are examples of external noise sources
- (b) Noise temperature is useful in dealing with UHF noise
- (c) Thermal agitation is the only source of noise in receiver

Choose the correct answer :

- 1. Only (b)
- 2. (a) and (b)
- 3. (b) and (c)
- 4. (a) and (c)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015864

Option 1 ID : 64635062339

Option 2 ID : 64635062340

Option 3 ID : 64635062341

Option 4 ID : 64635062342

Status : Answered

Chosen Option : 4

Q.88 Which of the following equations is electromagnetic wave equation?

- 1. $\nabla^2 \vec{E} - \frac{\sigma}{\mu} \frac{\partial \vec{E}}{\partial t} - \frac{\mu}{\epsilon} \frac{\partial^2 \vec{E}}{\partial t^2} = 0$
- 2. $\nabla^2 \vec{E} - \sigma \epsilon \frac{\partial \vec{E}}{\partial t} - \mu \sigma \frac{\partial^2 \vec{E}}{\partial t^2} = 0$
- 3. $\nabla^2 \vec{E} - \mu \epsilon \frac{\partial \vec{E}}{\partial t} - \mu \sigma \frac{\partial^2 \vec{E}}{\partial t^2} = 0$
- 4. $\nabla^2 \vec{E} - \mu \sigma \frac{\partial \vec{E}}{\partial t} - \mu \epsilon \frac{\partial^2 \vec{E}}{\partial t^2} = 0$

Given that $\vec{E}$ is time and space dependent electric field intensity vector and μ , σ and ϵ are permeability, conductivity and permittivity respectively of the medium.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015836

Option 1 ID : 64635062227

Option 2 ID : 64635062228

Option 3 ID : 64635062229

Option 4 ID : 64635062230

Status : Answered

Chosen Option : 4

Q.89

Assertion (A) : A transmission gate is a bidirectional switch.

Reason (R) : A transmission gate consists of two *n*-channel enhancement mode transistors.

Choose the correct answer :

1. Both (A) and (R) are true and (R) is the correct explanation of (A)
2. Both (A) and (R) are true, but (R) is not the correct explanation of (A)
3. (A) is true, but (R) is false
4. (A) is false, but (R) is true

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015889

Option 1 ID : 64635062439

Option 2 ID : 64635062440

Option 3 ID : 64635062441

Option 4 ID : 64635062442

Status : Answered

Chosen Option : 1

Q.90 In case of a monolithic phase-locked loop, the equation of free running frequency of the voltage controlled oscillator is

1. $f_{out} \cong \frac{4}{1.2R_1C_1} \text{ Hz}$

2. $f_{out} \cong \frac{1.2R_1C_1}{4} \text{ Hz}$

3. $f_{out} \cong \frac{1.2}{R_1C_1} \text{ Hz}$

4. $f_{out} \cong \frac{1.2}{4R_1C_1} \text{ Hz}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015819

Option 1 ID : 64635062159

Option 2 ID : 64635062160

Option 3 ID : 64635062161

Option 4 ID : 64635062162

Status : Answered

Chosen Option : 4

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 91 to 95) that follow :

Supply voltages changes because of poor regulation and filtering. For any given op-amp any change in the value of supply voltages results in a change in the input offset voltage, which in turn causes a change in the output offset voltage. The change in an op-amp's input offset voltage caused by variations in the supply voltage is specified on data sheets by a variety of terms : Input offset voltage sensitivity, power supply rejection ratio and supply power rejection ratio are some of them. All these terms are equivalent since they convey the same information.

Op-amp can work as difference amplifier and can be effectively used with feedback for many applications. Based on this paragraph, answer the next 5 questions.

SubQuestion No : 91

Q.91 The ideal value of supply voltage rejection ratio (SVRR) of an op-amp is

1. zero
2. infinity
3. >100 db
4. <100 db

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015895

Option 1 ID : 64635062459

Option 2 ID : 64635062460

Option 3 ID : 64635062461

Option 4 ID : 64635062462

Status : Answered

Chosen Option : 3

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 91 to 95) that follow :

Supply voltages changes because of poor regulation and filtering. For any given op-amp any change in the value of supply voltages results in a change in the input offset voltage, which in turn causes a change in the output offset voltage. The change in an op-amp's input offset voltage caused by variations in the supply voltage is specified on data sheets by a variety of terms : Input offset voltage sensitivity, power supply rejection ratio and supply power rejection ratio are some of them. All these terms are equivalent since they convey the same information.

Op-amp can work as difference amplifier and can be effectively used with feedback for many applications. Based on this paragraph, answer the next 5 questions.

SubQuestion No : 92

Q.92 The open-loop voltage gain of an operation amplifier is 2000. The noise level in the output without feedback is 102 mV. If negative feedback with $\beta = \frac{1}{40}$ is used, what will be the noise level in output?

1. 4 mV
2. 2 mV
3. 2.66 mV
4. 1.33 mV

Options 1. 1

2. 2
3. 3
4. 4

Question Type : MCQ

Question ID : 64635015898

Option 1 ID : 64635062471

Option 2 ID : 64635062472

Option 3 ID : 64635062473

Option 4 ID : 64635062474

Status : Answered

Chosen Option : 3

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 91 to 95) that follow :

Supply voltages changes because of poor regulation and filtering. For any given op-amp any change in the value of supply voltages results in a change in the input offset voltage, which in turn causes a change in the output offset voltage. The change in an op-amp's input offset voltage caused by variations in the supply voltage is specified on data sheets by a variety of terms : Input offset voltage sensitivity, power supply rejection ratio and supply power rejection ratio are some of them. All these terms are equivalent since they convey the same information.

Op-amp can work as difference amplifier and can be effectively used with feedback for many applications. Based on this paragraph, answer the next 5 questions.

SubQuestion No : 93

Q.93 Some of the salient features of a 741 op-amp are listed below :

- (a) High power consumption
- (b) External frequency compensation
- (c) No latch-up
- (d) Offset null capability

Choose the correct option :

1. Only (a) is wrong and (b), (c) and (d) are correct
2. Both (a) and (b) are wrong while (c) and (d) are correct
3. Both (a) and (b) are correct while (c) and (d) are wrong
4. Both (a) and (c) are wrong while (b) and (d) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015896

Option 1 ID : 64635062463

Option 2 ID : 64635062464

Option 3 ID : 64635062465

Option 4 ID : 64635062466

Status : Answered

Chosen Option : 3

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 91 to 95) that follow :

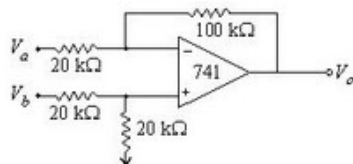
Supply voltages changes because of poor regulation and filtering. For any given op-amp any change in the value of supply voltages results in a change in the input offset voltage, which in turn causes a change in the output offset voltage. The change in an op-amp's input offset voltage caused by variations in the supply voltage is specified on data sheets by a variety of terms : Input offset voltage sensitivity, power supply rejection ratio and supply power rejection ratio are some of them. All these terms are equivalent since they convey the same information.

Op-amp can work as difference amplifier and can be effectively used with feedback for many applications. Based on this paragraph, answer the next 5 questions.

SubQuestion No : 94

Q.94

What is the output voltage V_o of the following circuit?



1. $-5 V_a + 2.5 V_b$
2. $-5 V_a + 6 V_b$
3. $-6 V_a + 3 V_b$
4. $-5 V_a + 3 V_b$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015897

Option 1 ID : 64635062467

Option 2 ID : 64635062468

Option 3 ID : 64635062469

Option 4 ID : 64635062470

Status : Answered

Chosen Option : 2

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 91 to 95) that follow :

Supply voltages changes because of poor regulation and filtering. For any given op-amp any change in the value of supply voltages results in a change in the input offset voltage, which in turn causes a change in the output offset voltage. The change in an op-amp's input offset voltage caused by variations in the supply voltage is specified on data sheets by a variety of terms : Input offset voltage sensitivity, power supply rejection ratio and supply power rejection ratio are some of them. All these terms are equivalent since they convey the same information.

Op-amp can work as difference amplifier and can be effectively used with feedback for many applications. Based on this paragraph, answer the next 5 questions.

SubQuestion No : 95

Q.95 Which of the following factors affect the values of input offset voltage, input bias current and input offset current?

1. Change in input impedance
2. Change in temperature
3. Change in supply voltages $+V_{CC}$ and $-V_{EE}$
4. Change in both temperature and supply voltage $+V_{CC}$ and $-V_{EE}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ

Question ID : 64635015899

Option 1 ID : 64635062475

Option 2 ID : 64635062476

Option 3 ID : 64635062477

Option 4 ID : 64635062478

Status : Answered

Chosen Option : 3

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 96 to 100) that follow :

Man is driving car on the road. The route, speed and acceleration of the car is determined and controlled by driver by observing traffic and road conditions. Driver has to manipulate the accelerator, clutch, gear-lever, brakes and steering wheel etc. to control the car. Speedometer is provided on the panel to display actual speed. Junctions of routes (roads) are having light (red and green) signal system for traffic control. Duration of red and green signals are pre-set.

SubQuestion No : 96

Q.96 Following statements are given regarding the above passage :

- (a) Automobile driving system is an open-loop control system.
- (b) Automobile driving system is a closed-loop control system.
- (c) Traffic signal system is a closed-loop control system.
- (d) Traffic signal system is an open-loop control system.

Out of the above statements, which are correct?

- 1. (a) and (d) are correct
- 2. (b) and (c) are correct
- 3. (a) and (c) are correct
- 4. (b) and (d) are correct

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635015901**

Option 1 ID : **64635062479**

Option 2 ID : **64635062480**

Option 3 ID : **64635062481**

Option 4 ID : **64635062482**

Status : **Answered**

Chosen Option : **1**

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 96 to 100) that follow :

Man is driving car on the road. The route, speed and acceleration of the car is determined and controlled by driver by observing traffic and road conditions. Driver has to manipulate the accelerator, clutch, gear-lever, brakes and steering wheel etc. to control the car. Speedometer is provided on the panel to display actual speed. Junctions of routes (roads) are having light (red and green) signal system for traffic control. Duration of red and green signals are pre-set.

SubQuestion No : 97

Q.97 In an automobile driving system, brain of the driver acts as

- 1. error detector
- 2. integrating block
- 3. summing block
- 4. actuator

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635015904**

Option 1 ID : **64635062491**

Option 2 ID : **64635062492**

Option 3 ID : **64635062493**

Option 4 ID : 64635062494
Status : Answered
Chosen Option : 4

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 96 to 100) that follow :

Man is driving car on the road. The route, speed and acceleration of the car is determined and controlled by driver by observing traffic and road conditions. Driver has to manipulate the accelerator, clutch, gear-lever, brakes and steering wheel etc. to control the car. Speedometer is provided on the panel to display actual speed. Junctions of routes (roads) are having light (red and green) signal system for traffic control. Duration of red and green signals are pre-set.

SubQuestion No : 98

Q.98 In an automobile driving system, function of actuator is being performed by

1. accelerator only
2. brakes only
3. both accelerator and brakes
4. wheels only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635015905
Option 1 ID : 64635062495
Option 2 ID : 64635062496
Option 3 ID : 64635062497
Option 4 ID : 64635062498
Status : Answered
Chosen Option : 3

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 96 to 100) that follow :

Man is driving car on the road. The route, speed and acceleration of the car is determined and controlled by driver by observing traffic and road conditions. Driver has to manipulate the accelerator, clutch, gear-lever, brakes and steering wheel etc. to control the car. Speedometer is provided on the panel to display actual speed. Junctions of routes (roads) are having light (red and green) signal system for traffic control. Duration of red and green signals are pre-set.

SubQuestion No : 99

Q.99 In an automobile driving system, eyes of the driver act as

1. error detector
2. summing block
3. visual link to feedback loop
4. feedback gain

Options 1. 1

2. 2

3. 3

4. 4

Question Type : MCQ
Question ID : 64635015903
Option 1 ID : 64635062487
Option 2 ID : 64635062488
Option 3 ID : 64635062489
Option 4 ID : 64635062490
Status : Answered

Chosen Option : 3

Comprehension:

Direction : Read the passage given below and answer the questions (Q. Nos. 96 to 100) that follow :

Man is driving car on the road. The route, speed and acceleration of the car is determined and controlled by driver by observing traffic and road conditions. Driver has to manipulate the accelerator, clutch, gear-lever, brakes and steering wheel etc. to control the car. Speedometer is provided on the panel to display actual speed. Junctions of routes (roads) are having light (red and green) signal system for traffic control. Duration of red and green signals are pre-set.

SubQuestion No : 100

Q.100 Traffic signal system is a

1. proportional and ON/OFF control system
2. proportional and derivative control system
3. proportional, integral and derivative control system
4. ON/OFF control system

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **64635015902**

Option 1 ID : **64635062483**

Option 2 ID : **64635062484**

Option 3 ID : **64635062485**

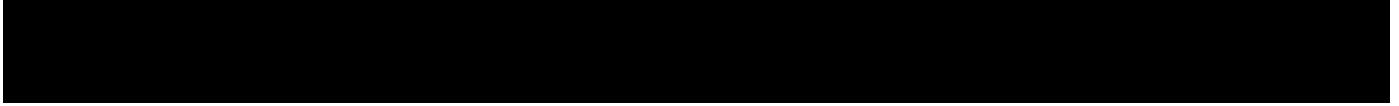
Option 4 ID : **64635062486**

Status : **Answered**

Chosen Option : **4**


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Candidate Details



Challenge/s regarding Answer Key

Remark	QuestionID	Correct Option(s)	ID Options claimed			
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