



पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

Participant ID	
Participant Name	
Tests Center Name	
Test Date	20/06/2023
Test Time	8:30 AM - 9:30 AM
Subject	Field Supervisor (E&C)

Section : General English

Q.1 Select the most appropriate option to fill in the blank.

We are looking forward \_\_\_\_\_ a progressive top management that is growth oriented.

- Ans ☒ 1. in  
☒ 2. at  
☒ 3. to  
☒ 4. on

Question ID : 630680244853  
Option 1 ID : 630680949731  
Option 2 ID : 630680949734  
Option 3 ID : 630680949733  
Option 4 ID : 630680949732  
Status : Answered  
Chosen Option : 3

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**Q.2** Select the most appropriate synonym of the word in brackets to fill in the blank.

Technology has made learning more interactive and \_\_\_\_\_. (Cooperative)

- Ans ☒ 1. commemorative  
☒ 2. collaborative  
☒ 3. contemplative  
☒ 4. competitive

Question ID : 630680244855

Option 1 ID : 630680949742

Option 2 ID : 630680949739

Option 3 ID : 630680949741

Option 4 ID : 630680949740

Status : Answered

Chosen Option : 2

**Q.3** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. But he always found time for his most fantastic hobby – studying animals and plants.  
B. Jehangir had many battles to fight and many rebellions to suppress.  
C. The accuracy with which Jahangir described various characteristics of animals and birds, would have credited a full-time naturalist.  
D. He was an avid bird watcher, or an ornithologist as he would be called now, and a keen naturalist.

- Ans ☒ 1. BADC  
☒ 2. CBDA  
☒ 3. CADB  
☒ 4. BDCA

Question ID : 630680244857

Option 1 ID : 630680949749

Option 2 ID : 630680949747

Option 3 ID : 630680949750

Option 4 ID : 630680949748

Status : Answered

Chosen Option : 4

Q.4 Select the most appropriate option to fill in the blank.

He made a tremendous effort not to be deterred \_\_\_\_\_ the path of truth.

- Ans
- ☒ 1. out of
  - ☒ 2. for
  - ☒ 3. from
  - ☒ 4. with

Question ID : 630680244854  
Option 1 ID : 630680949738  
Option 2 ID : 630680949735  
Option 3 ID : 630680949736  
Option 4 ID : 630680949737  
Status : Answered  
Chosen Option : 1

Q.5 Select the most appropriate ANTONYM of the word in brackets to fill in the blank.

The \_\_\_\_\_ people are migrating to the cities for better job opportunities. (Urban)

- Ans
- ☒ 1. homeless
  - ☒ 2. illiterate
  - ☒ 3. rural
  - ☒ 4. ignorant

Question ID : 630680244856  
Option 1 ID : 630680949743  
Option 2 ID : 630680949745  
Option 3 ID : 630680949744  
Option 4 ID : 630680949746  
Status : Answered  
Chosen Option : 3

Section : Reasoning

**Q.1** Read the given information carefully and answer the question that follows.

- Ramesh scored more marks than Vinay who did not score as well as Karan scored.
- Sanjay scored more marks than Anupam but less than Vinay.
- Shakti scored more marks than Ramesh but less than Karan.

Who among them scored the second lowest marks?

- Ans**
- ☒ 1. Ramesh
  - ☒ 2. Shakti
  - ☒ 3. Karan
  - ☒ 4. Sanjay

Question ID : 630680244860

Option 1 ID : 630680949759

Option 2 ID : 630680949760

Option 3 ID : 630680949762

Option 4 ID : 630680949761

Status : Answered

Chosen Option : 4

**Q.2** Refer to the given number, symbol series and answer the question that follows.

(Left) 7 \$ # 5 1 # 1 # 3 ^ 8 % 7 \$ & 9 3 # 2 & \* % & @ 2 3 @ % & 2 \$ 5 @ 4 % (Right)

How many such symbols are there (from left to right) that are not immediately preceded by a symbol and also not immediately followed by a number?

- Ans** ☒ 1. 4  
☒ 2. 3  
☒ 3. 2  
☒ 4. 5

Question ID : 630680244858  
 Option 1 ID : 630680949753  
 Option 2 ID : 630680949752  
 Option 3 ID : 630680949751  
 Option 4 ID : 630680949754  
 Status : Answered  
 Chosen Option : 1

**Q.3** Select the number from among the given options that can replace the question mark (?) in the following series.

27, 82, 245, 736, ?

- Ans** ☒ 1. 2207  
☒ 2. 2209  
☒ 3. 2213  
☒ 4. 2206

Question ID : 630680244866  
 Option 1 ID : 630680949786  
 Option 2 ID : 630680949784  
 Option 3 ID : 630680949783  
 Option 4 ID : 630680949785  
 Status : Answered  
 Chosen Option : 1



**Q.4** Select the term from among the given options that can replace the question mark (?) in the following series.

FBA, IYW, LVS, ?, RPK

- Ans**
- ☒ 1. PSO
  - ☒ 2. OSP
  - ☒ 3. OSO
  - ☒ 4. ORO

Question ID : 630680244861

Option 1 ID : 630680949765

Option 2 ID : 630680949763

Option 3 ID : 630680949764

Option 4 ID : 630680949766

Status : Answered

Chosen Option : 3

**Q.5** Select the term from among the given options that can replace the question mark (?) in the following series.

SJU, UDQ, WXN, ?, ALK

- Ans**
- ☒ 1. YRM
  - ☒ 2. YSL
  - ☒ 3. YRL
  - ☒ 4. ZRL

Question ID : 630680244862

Option 1 ID : 630680949768

Option 2 ID : 630680949769

Option 3 ID : 630680949767





Option 4 ID : 630680949770

Status : Answered

Chosen Option : 3

**Q.6** Select the pair that best represents a similar relationship to the one expressed in the pair of terms given below.

LOSER : 9-22-8-12-15

- Ans**  1. MOTER : 9-22-7-12-14  
 2. RIGHT : 20-8-7-9-18  
 3. WRONG : 4-9-12-13-20  
 4. METAL : 13-5-20-1-12

Question ID : **630680244864**

Option 1 ID : **630680949775**

Option 2 ID : **630680949776**

Option 3 ID : **630680949777**

Option 4 ID : **630680949778**

Status : **Answered**

Chosen Option : **1**



Q.7 Read the given information carefully and answer the question that follows.

There are six friends.

- Prashant is heavier than Geetanjali.
- Aman is heavier than Prabhat but not as heavy as Geetanjali and Rahul.
- Pramod is heavier than Prashant but not the heaviest.

Who among them is the second heaviest?

- Ans
- ☒ 1. Prashant
  - ☒ 2. Pramod
  - ☒ 3. Geetanjali
  - ☒ 4. Rahul

Question ID : 630680244859

Option 1 ID : 630680949755

Option 2 ID : 630680949758

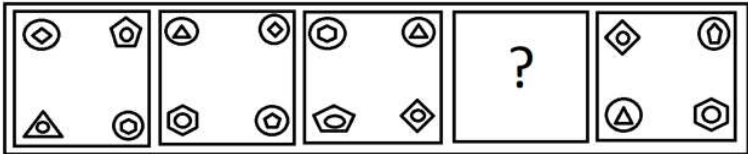
Option 3 ID : 630680949756

Option 4 ID : 630680949757

Status : Answered

Chosen Option : 2

Q.8 Select the figure from among the given options that can replace the question mark (?) in the following series.



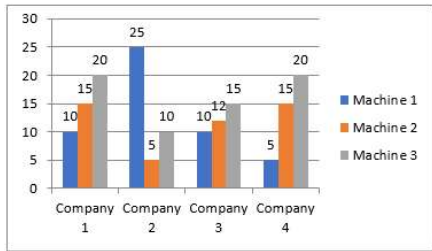
Ans

- ✓ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

Question ID : 630680244865  
Option 1 ID : 630680949779  
Option 2 ID : 630680949782  
Option 3 ID : 630680949781  
Option 4 ID : 630680949780  
Status : Answered  
Chosen Option : 4

Q.9 Study the given graph and answer the question that follows.

The graph shows the number of days required to produce a product X by using all three machines in series for four different companies.



What is the ratio of time taken by company 2 to company 3 using all three machines?

- Ans ☒ 1. 40 : 37
- ☐ 2. 37 : 40
- ☐ 3. 1 : 1
- ☐ 4. 40 : 43

Question ID : 630680244867  
Option 1 ID : 630680949789  
Option 2 ID : 630680949788  
Option 3 ID : 630680949790  
Option 4 ID : 630680949787

Status : Answered  
Chosen Option : 2

**Q.10** In a certain code language, BASKET is coded as YZHPVG. How will TENNIS be coded in the same language?

- Ans**
- ☐ 1. GVMMSH
  - ☐ 2. GVMMJH
  - ☐ 3. GVNMRH
  - ☒ 4. GVMMRH

Question ID : 630680244863

Option 1 ID : 630680949773

Option 2 ID : 630680949774

Option 3 ID : 630680949772

Option 4 ID : 630680949771

Status : Answered

Chosen Option : 4

Section : Quantitative Aptitude

**Q.1** A thief is noticed by a policeman at a distance of 750 m. When the policeman starts the chase, the thief also starts at the same time moving at a speed of 42 km/h. The speed of the policeman is 60 km/h. How far (in m) the thief would have moved before he is caught by the policeman?

- Ans**
- ☐ 1. 1650
  - ☒ 2. 1750
  - ☐ 3. 1400
  - ☐ 4. 1500

Question ID : 630680244876

Option 1 ID : 630680949825

Option 2 ID : 630680949826

Option 3 ID : 630680949823

Option 4 ID : 630680949824

Status : Answered

Chosen Option : 2

**Q.2** The value of a diamond varies directly as the square of its weight. If a diamond worth ₹24,000 is divided into two pieces in the ratio 3 : 5, then what will be the loss in its value?

- Ans**
- ☒ 1. ₹10,250
  - ☒ 2. ₹11,000
  - ☒ 3. ₹10,500
  - ☒ 4. ₹11,250

Question ID : 630680244874

Option 1 ID : 630680949815

Option 2 ID : 630680949817

Option 3 ID : 630680949816

Option 4 ID : 630680949818

Status : Answered

Chosen Option : 4

**Q.3** A library has an average of 221 visitors on Sundays, an average of 249 visitors on Saturdays and an average of  $x$  visitors on other days in the month of January of a year, starting with Thursday. If the average number of visitors per day for the whole month is 195, then what is the value of  $x$  ?

- Ans**
- ☒ 1. 181
  - ☒ 2. 177
  - ☒ 3. 178
  - ☒ 4. 179

Question ID : 630680244868

Option 1 ID : 630680949794

Option 2 ID : 630680949791

Option 3 ID : 630680949792

Option 4 ID : 630680949793

Status : Answered

Chosen Option : 2

**Q.4** The ratio of the price of a mobile phone to a computer is  $x : y$ . The price of the mobile phone increases by 20% and that of the computer decreases by 10%. If the ratio of their prices now is 8 : 5, then  $(2x - y) : (2x + y)$  is equal to:

- Ans**
- ☒ 1. 9 : 11
  - ☒ 2. 7 : 9
  - ☒ 3. 5 : 9
  - ☒ 4. 7 : 17

Question ID : 630680244872

Option 1 ID : 630680949810

Option 2 ID : 630680949809

Option 3 ID : 630680949807

Option 4 ID : 630680949808

Status : Answered

Chosen Option : 3

**Q.5** The price of an article is successively increased by 10%, 20% and 25% and then decreased by 40%. The net percentage change in the original price of the article is:

- Ans**
- ☒ 1. increase, 10%
  - ☒ 2. increase, 15%
  - ☒ 3. decrease, 5%
  - ☒ 4. decrease, 1%

Question ID : 630680244869

Option 1 ID : 630680949795

Option 2 ID : 630680949797

Option 3 ID : 630680949796

Option 4 ID : 630680949798

Status : Answered

Chosen Option : 4



**Q.6** A 300-m long train A passes a pole in 12 seconds, and it crosses completely another train B, running in the same direction at a speed of 60 km/h in 78 seconds. What is the length (in m) of train B?

- Ans** ☒ 1. 350  
☒ 2. 320  
☒ 3. 340  
☒ 4. 420

Question ID : 630680244875

Option 1 ID : 630680949821

Option 2 ID : 630680949819

Option 3 ID : 630680949820

Option 4 ID : 630680949822

Status : Answered

Chosen Option : 2

**Q.7**  $x$  varies directly as  $y$  and inversely as  $z$ . When  $y = 12$  and  $z = 20$ , then  $x = 9$ . What is the value of  $x$ , when  $y = 9$  and  $z = 25$ ?

- Ans** ☒ 1. 6.8  
☒ 2. 6.5  
☒ 3. 5.5  
☒ 4. 5.4

Question ID : 630680244873

Option 1 ID : 630680949814

Option 2 ID : 630680949813

Option 3 ID : 630680949812

Option 4 ID : 630680949811

Status : Answered

Chosen Option : 3

**Q.8** Pipe A fills a tank three times faster than pipe B and pipe C can empty the full tank in 20 hours. When all the three pipes are opened together for 9 hours, then 35% part of the tank is filled. Pipes A and C together can fill the tank in (in hours):

- Ans**
- ☒ 1. 45
  - ☒ 2. 90
  - ☒ 3. 60
  - ☒ 4. 75

Question ID : 630680244877  
Option 1 ID : 630680949827  
Option 2 ID : 630680949830  
Option 3 ID : 630680949829  
Option 4 ID : 630680949828  
Status : Answered  
Chosen Option : 3

**Q.9** A shopkeeper has 180 pens of the same cost price. He sells 60% of them at 40% profit and the remaining pens at 20% loss. What is his gain percentage in the entire transaction?

- Ans**
- ☒ 1. 20%
  - ☒ 2. 13.8%
  - ☒ 3. 16%
  - ☒ 4. 18.5%

Question ID : 630680244870  
Option 1 ID : 630680949801  
Option 2 ID : 630680949802  
Option 3 ID : 630680949799  
Option 4 ID : 630680949800  
Status : Not Answered  
Chosen Option : --

**Q.10** An article is sold for ₹1,296, after giving two successive discounts each of 20% on its marked price. If no discount is given on the marked price, then there is a gain of 35%. The cost price (in ₹) of the article is:

- Ans**
- ☒ 1. 1,450
  - ☒ 2. 1,400
  - ☒ 3. 1,550
  - ☒ 4. 1,500

Question ID : 630680244871

Option 1 ID : 630680949804

Option 2 ID : 630680949803

Option 3 ID : 630680949806

Option 4 ID : 630680949805

Status : Not Answered

Chosen Option : --

Section : Electronics & Communication Engineering

**Q.1** A sinusoidal carrier with amplitude of 100V is amplitude modulated with sinusoidal signal with amplitude of 70V then the modulation index and each side band amplitude is \_\_\_\_\_ and \_\_\_\_\_ respectively.

- Ans**
- ☒ 1. 0.7; 24.5V
  - ☒ 2. 1.42; 71.42V
  - ☒ 3. 0.7; 35V
  - ☒ 4. 1.42; 50V

Question ID : 630680244917

Option 1 ID : 630680949989

Option 2 ID : 630680949987

Option 3 ID : 630680949988

Option 4 ID : 630680949990

Status : Marked For Review

Chosen Option : 4

**Q.2** Which of the following option is true with respect to pair wise additive mixing of the primary colours:

P: Red + Green = Yellow

Q: Red + Blue = Magenta

- Ans**
- ☒ 1. P is True and Q is False
  - ☒ 2. P and Q both are True
  - ☒ 3. P is False and Q is True
  - ☒ 4. P and Q both are False

Question ID : 630680244924

Option 1 ID : 630680950015

Option 2 ID : 630680950018

Option 3 ID : 630680950016

Option 4 ID : 630680950017

Status : Answered

Chosen Option : 2

**Q.3** In which of the following ROM we can erase the data by passing UV Rays for defined time?

- Ans**
- ☒ 1. EPROM
  - ☒ 2. MROM
  - ☒ 3. EEPROM
  - ☒ 4. OTP ROM

Question ID : 630680244904

Option 1 ID : 630680949937

Option 2 ID : 630680949935

Option 3 ID : 630680949938

Option 4 ID : 630680949936

Status : Answered

Chosen Option : 1

Q.4 Which of the following is NOT true with respect to negative feedback Amplifiers?

- Ans
- ☐ 1. Better stabilized voltage gain.
  - ☐ 2. Bandwidth increases
  - ☒ 3. High frequency distortion
  - ☐ 4. Noise gets reduced

Question ID : 630680244896

Option 1 ID : 630680949903

Option 2 ID : 630680949905

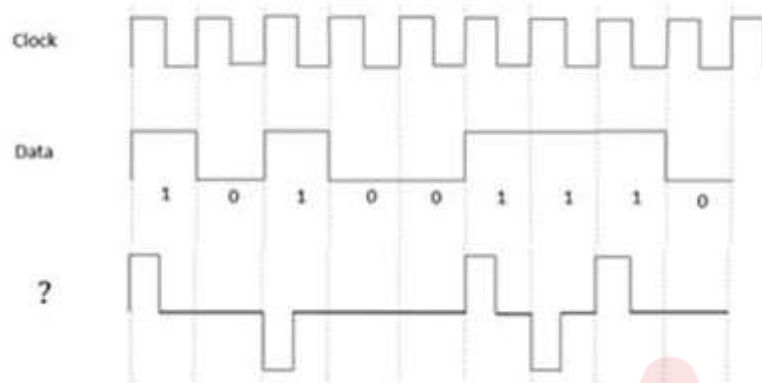
Option 3 ID : 630680949904

Option 4 ID : 630680949906

Status : Answered

Chosen Option : 3

Q.5 Identify Type of Line coding used for data transmission?



- Ans
- ✓ 1. Bipolar RZ
  - ✗ 2. NRZI Coding
  - ✗ 3. Polar NRZ
  - ✗ 4. Manchester Coding

Question ID : 630680244921

Option 1 ID : 630680950006

Option 2 ID : 630680950004

Option 3 ID : 630680950005

Option 4 ID : 630680950003

Status : Answered

Chosen Option : 4



**Q.6** With respect to sampling process which of the following statement is NOT true?

**Ans** ☒ 1.

Sampling at a frequency moderately higher than twice of message signal frequency will minimizes the aliasing problem

☒ 2.

If the sampling frequency ( $F_s$ ) is greater than or equal to twice of the message signal frequency ( $F_m$ ) then signals can be recovered with less distortions.

☒ 3.

Foldover distortion is due to higher sampling rate than nyquist rate.

☒ 4.

Band limiting the signal prior sampling with the help of anti aliasing filter, will minimizes the aliasing problem.

Question ID : 630680244920

Option 1 ID : 630680950002

Option 2 ID : 630680949999

Option 3 ID : 630680950000

Option 4 ID : 630680950001

Status : Answered

Chosen Option : 3

**Q.7** In negative feedback amplifier, if open loop voltage gain is 10, then what will be the overall gain if feedback factor is 0.5?

**Ans** ☒ 1. 10.5

☒ 2. 1.66

☒ 3. 9.5

☒ 4. 10

Question ID : 630680244899

Option 1 ID : 630680949918

Option 2 ID : 630680949915

Option 3 ID : 630680949917

Option 4 ID : 630680949916

Status : Answered

Chosen Option : 2

**Q.8** In multimeter AC voltage can be measured by passing AC voltage through \_\_\_\_\_ before the current passing through the galvanometer.

- Ans**
- ☐ 1. Thermocouple
  - ☐ 2. Transducer
  - ☐ 3. Transformer
  - ☒ 4. Half wave Rectifier

Question ID : 630680244893

Option 1 ID : 630680949891

Option 2 ID : 630680949893

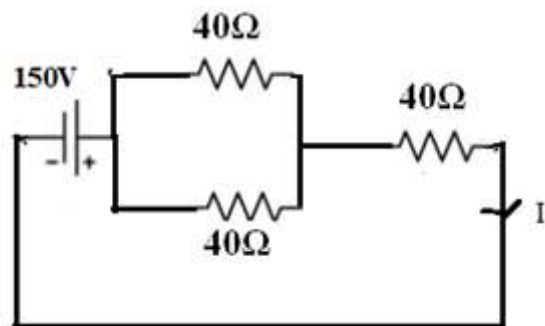
Option 3 ID : 630680949894

Option 4 ID : 630680949892

Status : **Marked For Review**

Chosen Option : 4

Q.9 The current flowing through the following circuit is \_\_\_\_\_.



- Ans
- ☒ 1. 7.5A
  - ☒ 2. 2.5A
  - ☒ 3. 26.66A
  - ☒ 4. 1.25A

Question ID : 630680244880

Option 1 ID : 630680949842

Option 2 ID : 630680949839

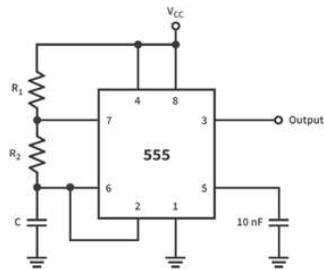
Option 3 ID : 630680949840

Option 4 ID : 630680949841

Status : Answered

Chosen Option : 2

**Q.10** In following circuit, If  $R_1$  and  $R_2$  are connected with  $10K\Omega$  resistors, and capacitor(C) of  $1\mu F$  is connected, then the value of  $T_{on}$  and  $T_{off}$  is \_\_\_\_\_ and \_\_\_\_\_ respectively.



- Ans
- ✓ 1. 14ms; 7ms
  - ✗ 2. 7ms; 14ms
  - ✗ 3. 7ms; 7ms
  - ✗ 4. 14ms; 14ms

Question ID : 630680244897

Option 1 ID : 630680949907

Option 2 ID : 630680949908

Option 3 ID : 630680949910

Option 4 ID : 630680949909

Status : **Marked For Review**

Chosen Option : 1

Q.11 Which of the following is NOT a status pin in 8085 microprocessor:

- Ans
- ☒ 1.  $S_1$
  - ☒ 2.  $RD'$
  - ☒ 3.  $IO/M'$
  - ☒ 4.  $S_0$

Question ID : 630680244906

Option 1 ID : 630680949944

Option 2 ID : 630680949945

Option 3 ID : 630680949946

Option 4 ID : 630680949943

Status : Marked For Review

Chosen Option : 2

Q.12 If  $V(t) = 20\sin(2 \times 10^8 \pi t + 10\sin 500\pi t)$  represents FM Signal. Then modulating signal frequency and maximum frequency deviation is \_\_\_\_\_ and \_\_\_\_\_ respectively.

- Ans
- ☒ 1.  $10^8$  Hz;  $10^9$  Hz
  - ☒ 2. 2500Hz; 250Hz
  - ☒ 3. 250Hz; 2500Hz
  - ☒ 4.  $10^9$  Hz;  $10^8$  Hz

Question ID : 630680244918

Option 1 ID : 630680949991

Option 2 ID : 630680949992

Option 3 ID : 630680949994

Option 4 ID : 630680949993

Status : Not Answered

Chosen Option : --

Q.13 The study of generation, transmission, and reception of sound waves is called

- Ans
- ☐ 1. Phonetics
  - ☐ 2. Phonics
  - ☒ 3. Acoustics
  - ☐ 4. Photonics

Question ID : 630680244923  
Option 1 ID : 630680950012  
Option 2 ID : 630680950011  
Option 3 ID : 630680950013  
Option 4 ID : 630680950014  
Status : Answered  
Chosen Option : 3

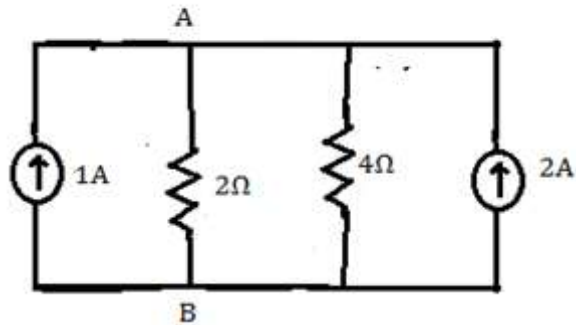
Q.14 Superconductors like alloys of aluminium, Zinc, Gallium, nichrom, niobium are belongs to:

- Ans
- ☐ 1. Semi conducting Materials
  - ☐ 2. High Resistivity Materials
  - ☒ 3. Zero Resistivity Materials
  - ☐ 4. Low Resistivity Materials

Question ID : 630680244887  
Option 1 ID : 630680949870  
Option 2 ID : 630680949868  
Option 3 ID : 630680949869  
Option 4 ID : 630680949867  
Status : Answered  
Chosen Option : 4



Q.15 Find the current in  $2\Omega$  resistor, apply superposition theorem.



- Ans
- ☒ 1. 4A
  - ☒ 2. 2A
  - ☒ 3. 1A
  - ☒ 4. 3A

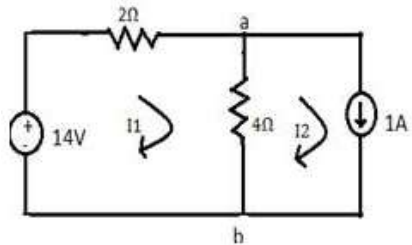
Question ID : 630680244915  
 Option 1 ID : 630680949982  
 Option 2 ID : 630680949980  
 Option 3 ID : 630680949979  
 Option 4 ID : 630680949981  
 Status : Answered  
 Chosen Option : 2

Q.16 Generally In 8085 microprocessors \_\_\_\_\_ is used as Data memory and \_\_\_\_\_ is used as Program memory.

- Ans
- ☒ 1. RAM; EPROM
  - ☒ 2. EPROM; OTPROM
  - ☒ 3. EPROM; RAM
  - ☒ 4. RAM; EEPROM

Question ID : 630680244910  
 Option 1 ID : 630680949959  
 Option 2 ID : 630680949961  
 Option 3 ID : 630680949960  
 Option 4 ID : 630680949962  
 Status : Answered  
 Chosen Option : 3

Q.17 The current flowing through the  $R_{ab}$  resistor, using mesh analysis is \_\_\_\_\_.



- Ans
- ☒ 1. 1A
  - ☒ 2. 4A
  - ☒ 3. 2A
  - ☒ 4. 3A

Question ID : 630680244913

Option 1 ID : 630680949971

Option 2 ID : 630680949974

Option 3 ID : 630680949972

Option 4 ID : 630680949973

Status : Answered

Chosen Option : 2

Q.18 Which of the law in Boolean algebra is considered as Annulment Law?

- Ans
- ☒ 1.  $X + 0 = X$
  - ☒ 2.  $X + 1 = 1$
  - ☒ 3.  $X + XY = X$
  - ☒ 4.  $X + X = X$

Question ID : 630680244901

Option 1 ID : 630680949925

Option 2 ID : 630680949923

Option 3 ID : 630680949926

Option 4 ID : 630680949924

Status : Answered

Chosen Option : 4

Q.19 Gray code is \_\_\_\_\_ bit change code and for binary number  $(1111)_2$  equivalent gray code is \_\_\_\_\_.

- Ans
- ☒ 1. Multi; 1100 respectively
  - ☒ 2. One; 1010 respectively
  - ☒ 3. Multi; 1000 respectively
  - ☒ 4. One; 1000 respectively

Question ID : 630680244902

Option 1 ID : 630680949929

Option 2 ID : 630680949927

Option 3 ID : 630680949928

Option 4 ID : 630680949930

Status : Answered

Chosen Option : 3

Q.20 Identify the proper order of blocks in PLL with feedback path.

- Ans
- ☒ 1.  
Input signal with frequency F, VCO, Phase detector, Low pass Filter, VCO
  - ☒ 2.  
Input signal with frequency F, Low pass Filter, Phase detector, VCO, Low pass Filter
  - ☒ 3.  
Input signal with frequency F, Phase detector, VCO, Low pass Filter, Phase detector
  - ☒ 4.  
Input signal with frequency F, Phase detector, Low pass Filter, VCO, Phase detector

Question ID : 630680244900

Option 1 ID : 630680949922

Option 2 ID : 630680949919

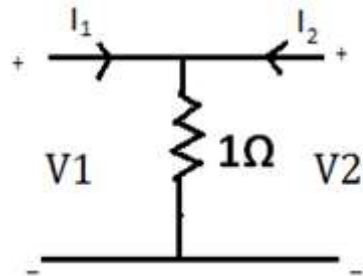
Option 3 ID : 630680949920

Option 4 ID : 630680949921

Status : Answered

Chosen Option : 4

Q.21 The Z parameter of the 2 port network shown in figure is:



Ans

✗ 1.  $\begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$

✗ 2.  $\begin{bmatrix} 0 & 1 \\ 1 & -1 \end{bmatrix}$

✗ 3.  $\begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$

✓ 4.  $\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$

Question ID : 630680244912

Option 1 ID : 630680949968

Option 2 ID : 630680949970

Option 3 ID : 630680949969

Option 4 ID : 630680949967

Status : Answered

Chosen Option : 2

**Q.22** In 8085 microprocessor with respect to bus structure which of the following statement is correct?

**Ans** ☒ 1.

The data bus is an 8-bit, unidirectional and The address bus is 16 bit, unidirectional.

☒ 2.

The data bus is an 8-bit, bidirectional and The address bus is also 8 bit, unidirectional.

☒ 3.

The data bus is an 8-bit, bidirectional and The address bus is 16 bit, unidirectional.

☒ 4.

The data bus is an 16-bit, unidirectional and The address bus is 16 bit, bidirectional.

Question ID : 630680244905

Option 1 ID : 630680949939

Option 2 ID : 630680949941

Option 3 ID : 630680949942

Option 4 ID : 630680949940

Status : Answered

Chosen Option : 3

**Q.23** Which of the following statement is wrong with respect to LED and LASER?

**Ans** ☒ 1. LED involves spontaneous emission.

☒ 2. LED is a coherent source of light,

☒ 3.

LASER is a monochromatic source of light as it generates the light of single wavelength.

☒ 4.

The working of LED is based on the principle of electro-luminance.

Question ID : 630680244898

Option 1 ID : 630680949914

Option 2 ID : 630680949913

Option 3 ID : 630680949912

Option 4 ID : 630680949911

Status : Answered

Chosen Option : 2

Q.24 The standard size of normal CRO Viewing Screen is:

- Ans ☒ 1. 8cm x 10cm  
☒ 2. 10cm x 8cm  
☒ 3. 12cm x 9cm  
☒ 4. 9cm x 12cm

Question ID : 630680244894

Option 1 ID : 630680949895

Option 2 ID : 630680949896

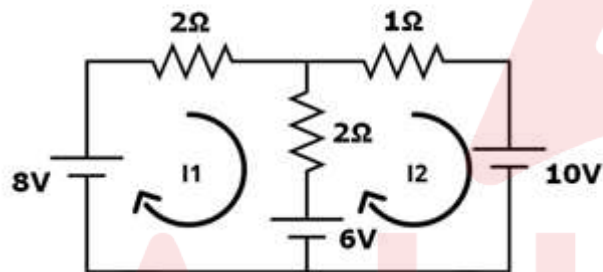
Option 3 ID : 630680949898

Option 4 ID : 630680949897

Status : **Marked For Review**

Chosen Option : 3

Q.25 The Value of  $I_1$  and  $I_2$  for the following circuit are:



- Ans ☒ 1. -0.25A and -1.5A  
☒ 2. 1A and 0.33A  
☒ 3. -1.5A and -0.25A  
☒ 4. -1A and -0.33A

Question ID : 630680244883

Option 1 ID : 630680949851

Option 2 ID : 630680949854

Option 3 ID : 630680949852

Option 4 ID : 630680949853

Status : **Answered**

Chosen Option : 4



Q.26 \_\_\_\_\_ type of insulators prevent the permeability of sound and absorb it or try to disperse it.

- Ans
- ☒ 1. Electrical insulators
  - ☒ 2. Acoustic insulators
  - ☒ 3. Radiation insulators
  - ☒ 4. Thermal insulators

Question ID : 630680244884  
Option 1 ID : 630680949858  
Option 2 ID : 630680949857  
Option 3 ID : 630680949855  
Option 4 ID : 630680949856  
Status : Answered  
Chosen Option : 2

Q.27 Which of the following is false with respect magnetic materials behavior?

- Ans
- ☒ 1. The magnetic state of magnetic materials are aligned either parallel or anti-parallel arrangements.
  - ☒ 2. Diamagnetic materials – not attracted by an external magnetic field.
  - ☒ 3. In Ferrimagnetic materials the magnetic domains are aligned in opposite directions but the net magnetic moment is not zero.
  - ☒ 4. Paramagnetic materials are highly attracted to external magnetic fields than ferromagnetic materials.

Question ID : 630680244886  
Option 1 ID : 630680949863  
Option 2 ID : 630680949866  
Option 3 ID : 630680949865  
Option 4 ID : 630680949864  
Status : Answered  
Chosen Option : 4

**Q.28** If you weigh a 6.5Kg substance four times and get 5.48 kg, 5.5Kg, 5.53Kg and 5.5Kg, then your measurement is.

- Ans**
- ☒ 1. Accurate but not Precise
  - ☐ 2. Precise but not Accurate
  - ☐ 3. Both Accurate and Precise
  - ☐ 4. Neither Accurate nor Precise

Question ID : 630680244891

Option 1 ID : 630680949884

Option 2 ID : 630680949883

Option 3 ID : 630680949885

Option 4 ID : 630680949886

Status : Answered

Chosen Option : 2

**Q.29** According to coulombs law, the relative permittivity of the medium is:

- Ans**
- ☒ 1. Inversely proportional electrostatic force of attraction or repulsion
  - ☐ 2. Directly proportional square root of electrostatic force of attraction or repulsion
  - ☐ 3. Inversely proportional square of electrostatic force of attraction or repulsion
  - ☐ 4. Directly proportional electrostatic force of attraction or repulsion

Question ID : 630680244878

Option 1 ID : 630680949832

Option 2 ID : 630680949833

Option 3 ID : 630680949834

Option 4 ID : 630680949831

Status : Answered

Chosen Option : 3

Q.30 If the following parameters are measured experimentally for a two port network.

i. with output port short circuited:  $I_1 = 5\text{mA}$ ,  $I_2 = -0.3\text{mA}$ ,  $V_1 = 20\text{V}$

ii. with input port short circuited:  $I_1 = -5\text{mA}$ ,  $I_2 = 10\text{mA}$ ,  $V_2 = 30\text{V}$

then the value of  $Y_{11}$  and  $Y_{22}$  are \_\_\_\_\_ and \_\_\_\_\_ respectively

Ans ☒ 1.  $-0.015\text{ m Mhos}$ ;  $-1.66\text{ m Mhos}$

☒ 2.  $0.25\text{ m Mhos}$ ;  $0.333\text{ m Mhos}$

☒ 3.  $0.333\text{ m Mhos}$ ;  $0.25\text{ m Mhos}$

☒ 4.  $-1.66\text{ m Mhos}$ ;  $-0.015\text{ m Mhos}$

Question ID : 630680244911

Option 1 ID : 630680949965

Option 2 ID : 630680949963

Option 3 ID : 630680949964

Option 4 ID : 630680949966

Status : Answered

Chosen Option : 4

Q.31 In which of the following modulation transmission power is constant?

Ans ☒ 1. PAM

☒ 2. PWM

☒ 3. PPM

☒ 4. SSB

Question ID : 630680244919

Option 1 ID : 630680949995

Option 2 ID : 630680949996

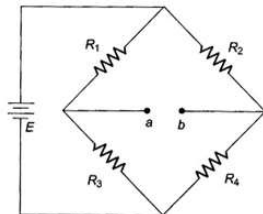
Option 3 ID : 630680949997

Option 4 ID : 630680949998

Status : Answered

Chosen Option : 4

**Q.32** If  $V = 20V$ ,  $R_2 = R_3 = R_1 = 10\Omega$  and  $R_4 = 20\Omega$  with zero source resistance then The thevenin's equivalent resistance and Thevenin's Voltage is for the following circuit is \_\_\_\_\_ and \_\_\_\_\_ respectively.



- Ans
- ☒ 1.  $R_{ath} = 15\Omega$ ;  $V_{th} = 3.33V$
  - ☒ 2.  $R_{th} = 11.66\Omega$ ;  $V_{th} = 3.33V$
  - ☒ 3.  $R_{th} = 11.66\Omega$ ;  $V_{th} = 5V$
  - ☒ 4.  $R_{th} = 15\Omega$ ;  $V_{th} = 5V$

Question ID : 630680244916

Option 1 ID : 630680949986

Option 2 ID : 630680949984

Option 3 ID : 630680949985

Option 4 ID : 630680949983

Status : Answered

Chosen Option : 3

**Q.33** Which of the following materials never to use in Microwave Oven?

- Ans
- ☒ 1. Glass Materials
  - ☒ 2. Ceramic Materials
  - ☒ 3. Paper Cups
  - ☒ 4. Metal Containers

Question ID : 630680244926

Option 1 ID : 630680950024

Option 2 ID : 630680950025

Option 3 ID : 630680950023

Option 4 ID : 630680950026

Status : Answered

Chosen Option : 4

**Q.34** When 3 batteries with the 50V, 100mA each with internal resistance of  $50\Omega$  are connected in series then the combination result is:

- Ans**
- ☒ 1. 150V, 100mA,  $50\Omega$
  - ☒ 2. 50V, 300mA,  $150\Omega$
  - ☒ 3. 150V, 300mA,  $150\Omega$
  - ☒ 4. 150V, 100mA,  $150\Omega$

Question ID : 630680244890

Option 1 ID : 630680949879

Option 2 ID : 630680949881

Option 3 ID : 630680949880

Option 4 ID : 630680949882

Status : Answered

Chosen Option : 4

**Q.35** Simple half wave rectifier with Capacitive filter (acts as LPF) is used demodulate the:

- Ans**
- ☒ 1. PM Signals
  - ☒ 2. AM Signals
  - ☒ 3. FM Signals
  - ☒ 4. PSK Signals

Question ID : 630680244922

Option 1 ID : 630680950009

Option 2 ID : 630680950007

Option 3 ID : 630680950008

Option 4 ID : 630680950010

Status : Answered

Chosen Option : 3

**Q.36** Which of the following statement is NOT True with respect to Monochrome Television?

**Ans** ☒ 1.

Basic Working Principle of Television is Persistent of vision

☒ 2.

In Television transmission, Audio signals are amplitude modulated and Video signals are frequency modulated.

☒ 3.

The ratio width / height of the frame is called aspect ratio and equals 4/3.

☒ 4. The Luminance Signal is also called it as Y signal

Question ID : 630680244925

Option 1 ID : 630680950021

Option 2 ID : 630680950020

Option 3 ID : 630680950019

Option 4 ID : 630680950022

Status : Answered

Chosen Option : 2

**Q.37** With respect to flip-flop which of the following option is True?

P: Within the same clock pulse, the output keeps changing is called race around condition.

Q: In SR Flip flop if both inputs are high then output changes from 1 to 0 and 0 to 1 for each valid clock pulses.

**Ans** ☒ 1. P and Q both are false

☒ 2. P is False and Q is True

☒ 3. P and Q both are True

☒ 4. P is true and Q is false

Question ID : 630680244903

Option 1 ID : 630680949931

Option 2 ID : 630680949934

Option 3 ID : 630680949932

Option 4 ID : 630680949933

Status : Answered

Chosen Option : 4



**Q.38** An object is across the surface in same direction of 100 N force acting on the surface. Find out the power and amount of work done by the force in moving the object through a distance of 8 m in 5Sec.

- Ans**
- ☒ 1. Work = 12.5J and Power = 2.5W
  - ☒ 2. Work = 800J and Power = 4kW
  - ☒ 3. Work = 800J and Power = 160W
  - ☒ 4. Work = 12.5J and Power = 62.5kW

Question ID : 630680244881

Option 1 ID : 630680949846

Option 2 ID : 630680949843

Option 3 ID : 630680949845

Option 4 ID : 630680949844

Status : Answered

Chosen Option : 3

**Q.39** \_\_\_\_\_ is the scanning process in which the first 312.5 lines are scanned called odd field and then 312.5 even numbered lines are scanned, called even field so that the frame containing 625 lines are scanned twice.

- Ans**
- ☒ 1. Interlaced Scanning
  - ☒ 2. Vertical Scanning
  - ☒ 3. Sequential Scanning
  - ☒ 4. Horizontal Scanning

Question ID : 630680244914

Option 1 ID : 630680949978

Option 2 ID : 630680949976

Option 3 ID : 630680949977

Option 4 ID : 630680949975

Status : Answered

Chosen Option : 1

**Q.40** The work done in taking a unit positive charge from infinity to the point, against the field is called:

- Ans**
- ☐ 1. Electric field Intensity
  - ☐ 2. Potential gradient
  - ☐ 3. Electrostatic force
  - ☒ 4. Absolute potential

Question ID : 630680244879

Option 1 ID : 630680949835

Option 2 ID : 630680949838

Option 3 ID : 630680949836

Option 4 ID : 630680949837

Status : Answered

Chosen Option : 1

**Q.41** If the resistor is coated with red, green, white from first to 3rd colour band and no 4<sup>th</sup> colour band, the value of resistance is:

- Ans**
- ☐ 1.  $25 \times 10^9 \Omega$  with zero tolerance
  - ☐ 2.  $25 M\Omega$  with  $\pm 5\%$  tolerance
  - ☐ 3.  $25 M\Omega$  with  $\pm 20\%$  tolerance
  - ☒ 4.  $25 \times 10^9 \Omega$  with  $\pm 20\%$  tolerance

Question ID : 630680244888

Option 1 ID : 630680949871

Option 2 ID : 630680949873

Option 3 ID : 630680949872

Option 4 ID : 630680949874

Status : Answered

Chosen Option : 4



Q.42 In dual slope DVM in first slope and second slope \_\_\_\_\_ and \_\_\_\_\_ are constant.

- Ans
- ✓ 1. Time; slope
  - ✗ 2. Slope; slope
  - ✗ 3. Voltage; time
  - ✗ 4. Slope; time

Question ID : 630680244892

Option 1 ID : 630680949887

Option 2 ID : 630680949888

Option 3 ID : 630680949890

Option 4 ID : 630680949889

Status : Answered

Chosen Option : 3

Q.43 Choose the correct order of interrupt priorities from highest to lowest in 8085 microprocessor.

- Ans
- ✗ 1. INTR, RST 5.5, RST 6.5, RST 7.5, TRAP
  - ✓ 2. TRAP, RST 7.5, RST 6.5, RST 5.5, INTR
  - ✗ 3. TRAP, INTR, RST 7.5, RST 6.5, RST 5.5
  - ✗ 4. RST 7.5, RST 6.5, RST 5.5, TRAP, INTR

Question ID : 630680244909

Option 1 ID : 630680949957

Option 2 ID : 630680949958

Option 3 ID : 630680949955

Option 4 ID : 630680949956

Status : Answered

Chosen Option : 2

**Q.44** If the sensitivity of the DC Voltmeter using PMMC instrument is  $10\text{ k}\Omega/\text{V}$  and meter resistance is  $500\ \Omega$ , then the full scale deflection current and multiplier resistor for  $10\text{ V}$  range voltmeter is \_\_\_\_\_ and \_\_\_\_\_ respectively.

- Ans**
- ☒ 1.  $10\text{ mA}$ ;  $500\ \Omega$
  - ☒ 2.  $0.1\text{ mA}$ ;  $99500\ \Omega$
  - ☒ 3.  $10\text{ mA}$ ;  $9.95\text{ K}\ \Omega$
  - ☒ 4.  $0.1\text{ mA}$ ;  $0.5\ \Omega$

Question ID : 630680244895

Option 1 ID : 630680949902

Option 2 ID : 630680949899

Option 3 ID : 630680949901

Option 4 ID : 630680949900

Status : Answered

Chosen Option : 4

**Q.45** If  $L$  is inductance in Henry,  $I$  is current flowing through the inductor then, Energy stored in an inductor is given by:

- Ans**
- ☒ 1.  $E = \frac{1}{2}LI^2$
  - ☒ 2.  $E = 2LI^2$
  - ☒ 3.  $E = 2(L/I^2)$
  - ☒ 4.  $E = \frac{1}{2}L^2I$

Question ID : 630680244882

Option 1 ID : 630680949848

Option 2 ID : 630680949847

Option 3 ID : 630680949850

Option 4 ID : 630680949849

Status : Answered

Chosen Option : 1

Q.46 Which of the following statement is true with respect to magnetic materials?

Ans ☒ 1.

Soft magnetic materials store High energy in the magnetic field.

☒ 2.

In hard magnetic materials Susceptibility and permeability are low.

☒ 3.

Hard magnetic materials are those materials that are easily magnetized and demagnetized.

☒ 4.

In soft magnetic materials, the area of the hysteresis loop is large.

Question ID : 630680244885

Option 1 ID : 630680949861

Option 2 ID : 630680949862

Option 3 ID : 630680949859

Option 4 ID : 630680949860

Status : Answered

Chosen Option : 3

Q.47 In refrigerator, \_\_\_\_\_ unit receives the hot vapors, which are cooled down into a liquid.

Ans ☒ 1. Expansion Valve

☒ 2. Condenser

☒ 3. Evaporator

☒ 4. Compressor

Question ID : 630680244927

Option 1 ID : 630680950030

Option 2 ID : 630680950028

Option 3 ID : 630680950027

Option 4 ID : 630680950029

Status : Answered

Chosen Option : 2

Q.48 The role of Interrupt service register (ISR) in interrupt controller 8259 is to:

Ans ☒ 1. Store the interrupt level that is currently being executed.

☐ 2.

Store the interrupt level which has to be masked by storing the masking bits of the interrupt level.

☐ 3.

Store all the interrupt level which are requesting for Interrupt services.

☐ 4.

Set the priority of interrupts for proper servicing and reset the interrupt level which is already been serviced.

Question ID : 630680244908

Option 1 ID : 630680949952

Option 2 ID : 630680949953

Option 3 ID : 630680949951

Option 4 ID : 630680949954

Status : Answered

Chosen Option : 4

Q.49 Which of the following option is NOT true with respect to High resistivity materials?

Ans ☐ 1.

They must be ductile and should have high mechanical strength.

☐ 2.

These materials have High melting point and no tendency for oxidation

☒ 3.

These materials have the high-temperature coefficient of resistance.

☐ 4.

These materials are used in manufacturing of resistors, resistance thermometers

Question ID : 630680244889

Option 1 ID : 630680949877

Option 2 ID : 630680949876

Option 3 ID : 630680949875

Option 4 ID : 630680949878


Status : Answered


Chosen Option : 1

Q.50 With respect to DMA Control which of the following statement is NOT true?

Ans  1.

8085 microprocessor has 2 pins HOLD and HLDA which are used for DMA Controller.

 2. Each channel has 16-bit counter.

 3. It has 4 channels which can be used over I/O devices.

 4.

In DMA data transfer scheme, data is directly transferred from an I/O device to RAM or from RAM to an I/O device without any interference of the CPU.

Question ID : 630680244907

Option 1 ID : 630680949949

Option 2 ID : 630680949950

Option 3 ID : 630680949948

Option 4 ID : 630680949947

Status : Answered

Chosen Option : 2