CBRT - 2017
Question Paper Grid

Government of Goa

12 September 2017

Menu

Set Name 16072017EE

Subjects Lecturer in Electrical Engineering

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Lecturer in Electrical Engineering

Itemcode : **EE1001**

Q1 : Choose the word opposite to
Extreme

(a) Moderate
(b) Timid
(c) Casual
(d) Ordinary

Itemcode : **EE1002**

Q2 : Choose the word opposite to
Comprehensive

(a) Smug
(b) Inadequate
(c) Indifferent
(d) Superficial

Itemcode : **EE1003**

Q3 : Choose the word opposite to
Fastidious

(a) Sloppy
(b) Thoughtless
(c) Careless
(d) Indiscrete

Itemcode : **EE1004**

Q4 : Choose the word opposite to
Insipid

(a) Informative
(b) Insightful
(c) Lively
(d) Shocking

Itemcode : **EE1005**

Q5 : Choose the appropriate word which best completes the sentence.
He was pleased with the new servant. He found that his work was of a high _____.

(a) degree
(b) capacity
(c) standard
(d) condition

Itemcode : **EE1006**

Q6 : Choose the appropriate word which best completes the sentence.
The examinations were put _____ by a week in view of the strike by the teachers.

(a) by
(b) away
(c) out
(d) off

Itemcode : **EE1007**

Q7 : Choose the appropriate word which best completes the sentence.
The flood victim went _____ a very painful experience.

(a) by
(b) through
(c) in for
(d) out of

Itemcode : **EE1008**

Q8 : Choose the appropriate word which best completes the sentence.

When the fire broke _____ nobody was in the house.

(a) up
(b) out
(c) in
(d) off

Itemcode : **EE1009**

Q9 : Choose the word which is similar in meaning to the following.
Latent

(a) Hard
(b) Concealed
(c) Visible
(d) Display

Itemcode : **EE1010**

Q10 : Choose the word which is similar in meaning to the following.
Affluent

(a) Talkative
(b) Poor
(c) Prosperous
(d) Close

Itemcode : **EE1011**

Q11 : Choose the word which is similar in meaning to the following.
Abominal

(a) Aggressive
(b) Mindful
(c) Hateful
(d) Destructive

Itemcode : **EE1012**

Q12 : Choose the word which is similar in meaning to the following.
Imperative

(a) Royal
(b) Authoritative
(c) Request
(d) Illegal

Itemcode : **EE1013**

Q13 : Choose the word which is similar in meaning to the following.
Insolent

(a) Assertive
(b) Proud
(c) Rude
(d) Nervous

Itemcode : **EE1014**

Q14 : Choose the word which is similar in meaning to the following.
Gait

(a) Door
(b) Loose
(c) Style of walking
(d) Load a cart

Itemcode : **EE1015**

Q15 : Choose the word which is similar in meaning to the following.
Tempo

(a) Slow movement
(b) Rapidity of movement
(c) Under active consideration
(d) Vehicle for conveyance

Itemcode : **EE1016**

Q16 : In which years did 'Mauryans' rule India?

(a) 300 - 125 BC
(b) 322 - 184 BC
(c) 401 - 292 BC
(d) 125 - 10 BC

Itemcode : **EE1017**

Q17 : With which sport is the Ryder Cup associated?

(a) Cricket

(b) Hockey
(c) Lawn Tennis
(d) Golf

Itemcode : **EE1018**

Q18 Who is the Author of 'Adventures of Sherlock Holmes'?
:

(a) Enid Blyton
(b) Agatha Christie
(c) Arthur Doyle
(d) Joseph Damien

Itemcode : **EE1019**

Q19 Who was the fourth President of India?
:

(a) Shankar Dayal Sharma
(b) Dr. Abdul Kalam
(c) V. V. Giri
(d) Pratiba Patil

Itemcode : **EE1020**

Q20 Who invented the art of vulcanising rubber?
:

(a) Edward Gibbon
(b) Charles Goodyear
(c) Roland Hill
(d) Paul Elrlich

Itemcode : **EE1021**

Q21 Who is the Union Minister of State for Power?
:

(a) Vasundhara Raje
(b) Uma Bharti
(c) Piyush Goel
(d) Jayant Sinha

Itemcode : **EE1022**

Q22 What is the approximate average annual rainfall in Goa?
:

(a) 1800 mm
(b) 4250 mm
(c) 2500 mm
(d) 1550 mm

Itemcode : **EE1023**

Q23 Which State in India is the biggest producer of rubber?
:

(a) Tamil Nadu
(b) Telangana
(c) Mizoram
(d) Kerala

Itemcode : **EE1024**

Q24 What is the currency of Russia?
:

(a) Yen
(b) Ringgit
(c) Rouble
(d) Dollar

Itemcode : **EE1025**

Q25 Who is the current President of France?
:

(a) Nicholas Sarbozy
(b) Emmanuel Macron
(c) Marie le Pen
(d) Francois Mitterande

Itemcode : **EE1026**

Q26 Who is the current Chairman of Union Public Service Commission?
:

(a) Arun Sinha
(b) Deepak Gupta
(c) David Syiemlieh
(d) Alka Sirohi

Itemcode : **EE1027**

Q27 What is the full form of GST?
:

(a) General Sales Tax
(b) General Service Tax
(c) Goods Sales Tax
(d) Goods and Service Tax

Itemcode : **EE1028**

Q28 _____ is one of the founders of Uber.
:

(a) Garrett Camp
(b) Richard Branson
(c) Elon Musk
(d) Jeff Bezos

Itemcode : **EE1029**

Q29 Who is the current Speaker of Goa Legislative Assembly?
:

(a) Shri. Pratapsingh Rane
(b) Shri. Michael Lobo
(c) Dr. Pramod Sawant
(d) Shri. Nilesh Cabral

Itemcode : **EE1030**

Q30 Which of the following rivers originates in Goa?
:

(a) Zuari
(b) Mandovi
(c) Sal
(d) None of the above

Itemcode : **EE1031**

Q31 The ratio of the ages of Meena and Maya is 4:3. The sum of their ages is 28 years. The ratio of their ages after eight years
: will be _____.

(a) 4:3
(b) 2:11
(c) 7:4
(d) 6:5

Itemcode : **EE1032**

Q32 A, B and C can do a piece of work in 36, 54 and 72 days respectively. They started doing the work together but A left 8
: days before the completion of the work while B left 12 days before the completion of the work. The number of days for which C worked is _____.

(a) 4
(b) 8
(c) 12
(d) 24

Itemcode : **EE1033**

Q33 Alex spends 40% of his salary on food articles and one third of the remaining on transport. If he saves Rs. 450 per
: month, which is half of the balance after spending on food items and transport, what is his monthly salary?

(a) Rs. 4500
(b) Rs. 2250
(c) Rs. 1125
(d) Rs. 2500

Itemcode : **EE1034**

Q34 If the cost price of 12 tables is equal to the selling price of 16 tables, the loss per cent is
:

(a) 15%
(b) 20%
(c) 25%
(d) 30%

Itemcode : **EE1035**

Q35 The sum of three numbers is 174. The ratio of the second number to the third number is 9:16 and the ratio of the first
: number to the third one is 1:4. The second number is

(a) 24
(b) 54
(c) 96
(d) None of the above

Itemcode : **EE1036**

Q36 The average of first five multiples of 3 is
:

(a) 3
(b) 9
(c) 12
(d) 15

Itemcode : **EE1037**

Q37 A motorist travels to a place 150 km. away at an average speed of 50 km/hr. and returns at 30 km/hr. His average speed
: for the whole journey in km/hr. is

(a) 35
(b) 37
(c) 37.5
(d) 40

Itemcode : **EE1038**

Q38 If Bob, Jay and Anil can do a piece of work in 15 days, 10 days and 6 days respectively, how long will they take to do it, if
: all three work at it together?

(a) 3 days
(b) 3 and 1/2 days
(c) 3 and 9/20 days
(d) 3 and 3/20 days

Itemcode : **EE1039**

Q39 If a man running at 15 km/hr. crosses a bridge in 5 minutes, then the length of the bridge is:
:

(a) 1333 m
(b) 1000 m
(c) 7500 m
(d) 1250 m

Itemcode : **EE1040**

Q40 A man can swim downstream at 6 km/hr. and upstream at 2 km/hr., his speed in still water is
:

(a) 4 km/hr.
(b) 2 km/hr.
(c) 3 km/hr.
(d) 25 km/hr.

Itemcode : **EE1041**

Q41 The length of a rectangle is decreased by R% and the breadth is increased by (R+5)%. Find 'R' if the area of the rectangle
: is unaltered.

(a) 5
(b) 8
(c) 15
(d) 20

Itemcode : **EE1042**

Q42 Find the volume of a solid in the form of a right circular cylinder with hemispherical ends whose total length is 2.7 m and
: the diameter of each hemispherical end is 0.7 m.

(a) 0.49 m^3
(b) 0.51 m^3
(c) 0.67 m^3
(d) 0.95 m^3

Itemcode : **EE1043**

Q43 A and B are two alloys of gold and copper prepared by mixing metals in the ratio 7:2 and 7:11 respectively. If equal
: quantities of the alloys are melted to form a third alloy C, the ratio of gold and copper in C will be

(a) 5:7
(b) 5:9
(c) 7:5
(d) 9:5

Itemcode : **EE1044**

Q44 You arrive at your school 5 minutes late if you walk with a speed of 4 km/hr., but you arrive 10 minutes before the
: scheduled time if you walk with a speed of 5 km/hr. The distance of the school from your house is

(a) 3 km.
(b) 4 km.
(c) 5 km.
(d) 6 km.

Itemcode : **EE1045**

Q45 Two years ago, a man was 6 times as old as his son. After 18 years, he will be twice as old as his son. Their present ages

: in years are

(a) 32, 7
(b) 34, 9
(c) 36, 11
(d) None of the above

Itemcode : **EE1046**

Q46 A sine wave voltage is applied across an inductor. When the frequency of the voltage is decreased, the current **:**

(a) is increased
(b) is decreased
(c) does not change
(d) momentarily goes to zero

Itemcode : **EE1047**

Q47 The minimum resistance value for a blue, grey, red, silver resistor is **:**

(a) 612Ω
(b) 6120Ω
(c) 6800Ω
(d) 6460Ω

Itemcode : **EE1048**

Q48 Electrons in the outer orbit are called **:**

(a) Nuclei
(b) Valences
(c) Waves
(d) Shells

Itemcode : **EE1049**

Q49 If the cross sectional area of a magnetic field increases, but the flux remains the same, the flux density **:**

(a) increases
(b) decreases
(c) remains the same
(d) doubles

Itemcode : **EE1050**

Q50 Which of the following capacitors is polarised? **:**

(a) Mica
(b) Ceramic
(c) Plastic Film
(d) Electrolytic

Itemcode : **EE1051**

Q51 What is India's Solar grid cummulative capacity at present? **:**

(a) 24.6 GW
(b) 18 GW
(c) 12.5 GW
(d) 7 GW

Itemcode : **EE1052**

Q52 The largest thermal power station in India is in **:**

(a) Bihar
(b) Manipur
(c) Madhya Pradesh
(d) Chattisgarh

Itemcode : **EE1053**

Q53 The slip of an induction motor normally does not depend on **:**

(a) rotor speed
(b) synchronous speed
(c) shaft torque
(d) core-loss component

Itemcode : **EE1054**

Q54 The bridge method commonly used for finding mutual inductance is **:**

(a) Heaviside Campbell Bridge

(b) Schering Bridge
(c) De Sauty Bridge
(d) Wien Bridge

Itemcode : **EE1055**

Q55 The typical ratio of latching current to holding current in a 20A thyristor is
:

(a) 5.0
(b) 2.0
(c) 1.0
(d) 0.5

Itemcode : **EE1056**

Q56 A 4 point starter is used to start and control the speed of a
:

(a) DC shunt motor with armature resistance control
(b) DC shunt motor with field weakening control
(c) DC series motor
(d) DC compound motor

Itemcode : **EE1057**

Q57 A negative sequence relay is commonly used to protect
:

(a) An alternator
(b) A transformer
(c) A transmission line
(d) A bus bar

Itemcode : **EE1058**

Q58 A 680Ω load resistor, RL is connected across a constant current source of 1.2A. The internal source resistance, RS is 12K
: Ω. The load current RL is

(a) 0 A
(b) 1.2 A
(c) 114 mA
(d) 1.14 A

Itemcode : **EE1059**

Q59 A transformer with a 110 V primary has a 15:1 turns ratio. The load resistance, RL is 120Ω. What is the approximate
: voltage across the load?

(a) 7.3 V
(b) 73 V
(c) 88 V
(d) 880 V

Itemcode : **EE1060**

Q60 A 0.47 μF capacitor is across a 2 KHz sine wave signal source. The capacitor reactance is
:

(a) 170Ω
(b) 17Ω
(c) 0.000169Ω
(d) 1.7Ω