

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

13.05.2024

Report of "Online Technical Quiz" for plus two students

CONVENERS:	RESOURCE PERSONS:
Dr. C. Tharini, Prof.& Dean / SECS Dr. R. Jayashree, Prof.& HoD/EEE	DATE & TIME : 11th May 2024, 10.00 AM – 12.00 PM
COORDINATORS: Dr. R. Zahira, Associate Professor Dr. K. Sarmila Har Beagam, Asst. Prof. (Sel. Gr) Dr. V. Pramila, Asst. Prof.	Quiz Link: https://docs.google.com/forms/d/e/1FAIpQLSfr 4gyHhrb6xdhjXgiaVshgMxo2XU0E_U0iLpgcK pj8hA1BEw/viewform?usp=sf_link
	Maximum No. of participants :33

An online Technical Quiz for plus two students was conducted on 11.05.2024, 10.00 A.M – 12.00 P.M through Quiz link. It was organized by the Department of Electrical and Electronics Engineering. The medium of instruction for this Quiz was English. The report discusses about the following aspects of the programme:

1. Programme Schedule of the Quiz Programme

The brochure highlighting the necessary information about the Quiz Programme was designed and circulated. The schedule is displayed below,





There was **No Registration Fee** for the participants attending the Quiz Programme.

Program Overview:

The quiz consisted of multiple choice questions, each covering a range of topics, including basic science and maths which as follows:

2024 Quiz 11.05.2024

The quiz is conducted by the Department of Electrical and Electronics Engineering , BSA Crescent Institute of Science and Technology, Vandalur, Chennai . The main aim of this quiz is to help the Higher Secondary (Eleventh and Twelfth)students to understand the concepts and to get an experience in the core subjects namely, Maths , Physics and Chemistry. We strongly believe that this exercise would help you to face your final exams with more confidence. Wishing you a Happy Learning! All the very Best.

* Inc	dicates required question
1.	Email *
2.	Name in CAPITAL LETTERS (To be printed in the Certificate) *
3.	Name of the School *
4.	Class * Mark only one oval.
	12th 11th Other:
5.	Mobile Number for communication(whatsapp) *
	Quiz questions

6.	The function $f(x) = \tan x - x^*$
	Mark only one oval.
	always increases always decreases sometimes increases and sometimes decreases never increases
7.	If x is real, the minimum value of $x^2 - 8x + 17$ is *
	Mark only one oval.
8.	The function $f(x) = 2x^3 - 3x^2 - 12x + 4$ has *
	Mark only one oval.
	two points of local maximum
	two points of local minimum
	one maxima and one minima
	ono maxima or minima
9.	Maximum slope of the curve $y = -x^3 + 3x^2 + 9x - 27$ is *
	Mark only one oval.
	o
	12
	16
	32

10.	If A, B and C are three sets such that $A \cap B = A \cap C$ and $A \cup B = A \cup C$. then *
	Mark only one oval.

- ____ A = B
- ____ A = C
- B = C
- \bigcirc A \cap B = d
- 11. If A and B are square matrices then (AB)' = *

Mark only one oval.

- B'A'
- A'B'
- ◯ AB'
- ◯ B'A
- 12. *****

If
$$\begin{bmatrix} 1-x & 2 \\ 18 & 6 \end{bmatrix} = \begin{bmatrix} 6 & 2 \\ 18 & 6 \end{bmatrix}$$
 then x =

Mark only one oval.

- ____ ±6
- <u></u> -5
- \bigcirc 7

Mark only one oval.

- 27 A
- ____ 2 A
- ____ 3 A
- 14. Three identical charges are placed at the corners of an equilateral triangle. If the force between any two charges is 10 N, then the net force on each charge is

Mark only one oval.

- zero
- 20.89 N
- 30.45 N
- ____ 17.32 N
- 15. Four identical capacitors are connected first in series and then in parallel. The * ratio of effective capacitance is

Mark only one oval.

- 1:4
- 4:1
- 1:16
- 16:1

16.	A bullet of mass 5 g has a charge of 0.5 μC . The potential difference through which it must be accelerated from rest to acquire a speed of 3 m/s is	*
	Mark only one oval.	
	45 x10^3 V	
	45x10^-3 V	
	45x10^6 V	
	45 V	
17.	A wire of resistance 10 Ω is stretched four times its original length. The resistance of the stretched wire is	*
	Mark only one oval.	
	160 Ω	
	40 Ω	
	2.5 Ω	
	400 Ω	
18.	Two identical cells send the same current through a resistance of 10 Ω when these are initially connected in series and then in parallel. The internal resistance of each cell is	*
	Mark only one oval.	
	20 Ω	
	10 Ω	
	5 Ω	
	1 Ω	

- *
- 19. Three inductors each of inductance L are connected in parallel. The net inductance is

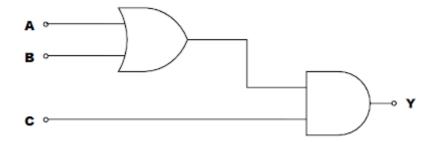
Mark only one oval.

- 3 L
- ___L/3
- 3/L
- 20. The flux linked with a coil at any time 't' is given by the equation given below. *
 The induced emf when t = 2s is

$$\phi = 5t^3 - 7t^2 + 18t + 40$$

Mark only one oval.

- **50 V**
- 30 V
- ___ -50 V
- ____ 70 V
- 21. The output(Y) of the following circuit is 1 when the input ABC is *



Mark only one oval.

- O10

22.	An optician prescribes spectacles to a patient with a combination of a convex lens of focal length 40 cm and a concave lens of focal length 25 cm. The power of the spectacles is	*
	Mark only one oval.	
	6.5 D	
	1.5 D	
	1.5 D	
	6.5 D	
23.	A proton and an alpha particle have the same kinetic energy. The ratio of de Broglie wavelengths associated with them is	*
	Mark only one oval.	
	4:1	
	2:1	
	1:2	
	<u> </u>	
24.	The energy of the electron in the third orbit of the hydrogen atom is -1.51 eV. Its potential energy is	3
	Mark only one oval.	
	-13.6 eV	
	1.51 eV	
	-1.51 eV	
	-3.02 eV	

25.	Hydrogen atoms are excited from the ground state to the excited state n=5. The number of spectral lines observed will be
	Mark only one oval.
	□ 4□ 6□ 5
26.	Helium is used in balloons in the place of, hydrogen because it is*
	Mark only one oval.
	incombustible
	lighter than hydrogen
	radioactive and detected easily
	incombustible and lighter than hydrogen
27.	Electrolytic reduction of nitrobenzene in a strongly acidic medium gives *
	Mark only one oval.
	p - aminophenol
	azoxybenzene
	m-nitroaniline
	aniline
28.	Which one of the following is not correct? *
	Mark only one oval.
	La is actually an element of transition metal series rather than lanthanide series
	Atomic radii of Zr and Hf are same because of lanthanide contract
	La(OH)2 is less basic than Lu(OH)3
	In lanthanoid series ionic radius of Ln3+ ions decreases

















B.S. Abdur Rahman "

Let's begin the journey of building a successful career in the World of Opportunities... Join and Explore for a Progressive Future!

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Programmes Offered

- B.Tech. (Electrical & Electronics Engineering) With Minor Degree in
 - Artifical Intelligence & Machine Learning
 - Blockchain
 - Cyber Security
 - Data Science
 - Internet of Things (IoT)
- Virtual and Augmented Reality
- Robotics
- 3D Printing
- GIS and Remote Sensing
- Computational Biology
- Sensor Technology
- M.Tech. (Power Systems Engineering)
- Ph.D.

Reasons to choose EEE @ Crescent

- √ NBA Accredited Programme @ NAAC Accredited Institution
- √ Well Qualified Faculty Members
- √ State of Art Laboratories
- √ Choice Based Credit System
- √ Value added courses
- ✓ MoU with Industries & International Universities
- √ Industry standard licensed software
- √ Courses in Emerging Technologies
- √ Credit Transfer from NPTEL / MOOC / SWAYAM courses
- √ Mandatory Industrial Internship
- Good Placement Record



Placement Details (Indicative)









Prominent Alumni















DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING B.S. Abdur Rahman Crescent Institute of Science & Technology, Seethakathi Estate, GST Road, Vandalur, Chennai - 600 048 Admission Help-desk: +91-95432 77888; 9962617483 +91-94900 01725

Website: www.crescent.education Email: admissions@crescent.education; jennathu.beevi@crescent.education

B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY Department of Electrical and Electronics Engineering Online Quiz Competetion for 12th students on 11th May 2024

2 [20 :0	10	18	17	16	15	14	13	12	<u>.</u>	10	9	00	7	6	ڻ ن	4		ω	2			SNo		
	\neg	\neg						5/11/2024 14:27:17		-		anr 9 5/11/2024 10:37:30 om	5/11/2024	5/11/2024	- Lancarde	ACCUPATION ASSESSED.	5/11/2024 14.25.04	E14410000 44-05-04	5/11/2024 10:28:07		5/11/2024 15:15:50	E 144 2000 4 AE 4E 200	Timestamp		
5/11/2024 10:31:51 durai123p@gmail.com	5/20/2024 23:12:07 nasurdeen376@gmail.com	5/11/2024 16:25:40 ahmdruwais@gmail.com	5/11/2024 10:09:36 kishorekumarvivek@gmail.com	5/21/2024 10:20:09 mdumar050427@gmail.com	5/11/2024 22:17:11 mdumar050427@gmail.com	5/11/2024 9:52:04 dineshkarthikm2929@gmail.com	5/11/2024 9:35:46 mk4503512@gmail.com	velurupraveenkumar313@gmail. com	5/11/2024 13:05:47 itzdeva320@gmail.com	5/11/2024 15:35:03 shahid733sha@gmail.com	arshadkasim3@gmail.com	annemhemanthreddy6@gmail.c	10:54:49 shankarveresi@gmail.com	il.com	5/11/2024 10:37:28 wy956330@gmail.com	5/11/2024 17:33:24 mk4503512@gmail.com	Degullilooi 1333@giilaii.coiii	heorimpooris. S. Formail com	sivaiyappan297@gmail.com	5/11/2024 10:07:24 durairajkavitha144@gmail.com	5/11/2024 15:15:30 anusi ps2003@gillaii.com	an inches 2003 Damail com	Email Address		
8 / 25	8 / 25	8 / 25	9/25	9/25	9/25	10 / 25	10 / 25	10 / 25	10 / 25	10 / 25	10 / 25	10 / 25	11/25	12 / 25	12 / 25	13 / 25	17.10	14 / 25	15 / 25	15 / 25		19 / 25	Score		
IN ENGLISH	IMTHIYAS M	RUWAIS.N	V KISHOREKUMAR	MOHAMMED UMAR	MOHAMMED UMAR	Dinesh Karthick	Kumar	VELURU PRAVEEN KUMAR	DEVA DHARSHINI. S	SHAHID AFRIDI	A.ARSHAD KASIM	ANNEM HEMANTH REDDY	VEREDI DIVA DIANNAN	ESAKKI ESWARI M	VENKALESH	KEERTHANA M U	>	MOHAMMED ANAS	SIVA.I 500	SHAGILAN U 500		P.S. ANUSRI 850	Certificate)	(To be printed in the	Name in CAPITAL LETTERS
SRI RAMAKRISHNA HR SEC SCHOOL	National academy	Crescent school	NARAYANA	Al-hilal matric hr sec school	Al-hilal matric hr sec school	secondary school	secondary school	NARAYANA	National academy	school palacode	school	GGHSS, Pattukkottai	OGI IOO,I attannottal	secondary school	Sri Ramkrishna higher	school Tisaiyanvilai	Sri Ramakrishna Hr Sec	Crescent higher secondary school	secondary school	AMMOOR	LFC MAT HR SEC SCHOOL	Chinmaya Vidhyalaya Hr.Sec School			
12th	12th	1155	12th	12th	12th			12th	12th	12th	12th	12th	1201	12th	1071	12th		11th	12th	12th		12th	Class		
6383263472	9843312276	814808/5/2	93429/7251	6384327023	9942397513			9177241950	8000140230	7339117962	9080257154	9948195869		9994064227 9160041264	0000	7092751002		9959755015	9342544684	9789151743		9940886176	whatsapp)	communication(Mobile Number for

B.S. ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY Online Quiz Competetion for 12th students on 11th May 2024 Department of Electrical and Electronics Engineering

	٦							\neg	_	П			7	П	_		П			\exists	П				
33		32			31	30			29		28			27	26			25			24	23		22	\perp
5/11/2024 16:09:13 mssugi962@gmail.com		5/11/2024 10:23:10 iyappananusuya@gmail.com			5/11/2024 10:11:56 aruna04082005@gmail.com	5/11/2024 10:44:33	kalaimagalr		5/11/2024 14:54:59 basker0496@gmail.com		5/11/2024 10:24:56 iyappananusuya@gmail.com			5/21/2024 22:22:41 i9808998@gmail.com	5/11/2024 10:27:34 om	kowsalyape		5/11/2024 10:26:37 Lcom	keerthikash		5/11/2024 10:15:09 vy956330@gmail.com	5/11/2024 11:05:01 m	sjayasrirock	5/11/2024 11:40:24 gabinaya2007@gmail.com	
@gmail.com		ısuya@gmail.com			2005@gmail.com		kalaimagalrocketscience@gmail		3@gmail.com		ısuya@gmail.com			gmail.com		kowsalyaperiyasami40@gmail.c			keerthikashanmugam482@gmai)gmail.com		sjayasrirocketscience@gmail.co	07@gmail.com	
4/25		4/25			5/25	6/25			6/25		6/25			6/25	7/25			7 / 25			7 / 25	7 / 25		8 / 25	
M.SUGI		Anusuya			Aruna.A	KALAIMAGAL S			VIDHYA		Anu			Imthiyas M	IN TAMIL			KEERTHIKA S			VENKATESH	S.JAYASRI		ABINAYA G	
School	Sri Ramakrishna Hr. Sec.	school, Tisaiyanvilai	Secondary	Sri Ramakrishna Higher	GGHSS,Pattukkottai	School, Vallam, Thanjavur	Government Model	Thanjavur District	School thisaiyanvillai	Sri Ramakrishna Hr. Sec.	school,Tisaiyanvilai	Secondary	Sri Ramakrishna Higher	National academy	THISAYANVILLAI	SEC SCHOOL	SRI RAMAKRISHNA HR	school, Tisaiyanvilai	Secondary	Sri Ramakrishna Higher	NARAYANA	GGHSS, Pattukkottai		School	Sri Ramakrishna Hr Sec
12th		12th			12th	12th			12th		12th			12th	12th			12th			12th	12th		12th	
6385609167		9578349019			88386 13944	8870671141			9360877446		9578349019			9843312276	6383263472			8148067660			6309136758	8220493377	1	7904665731	



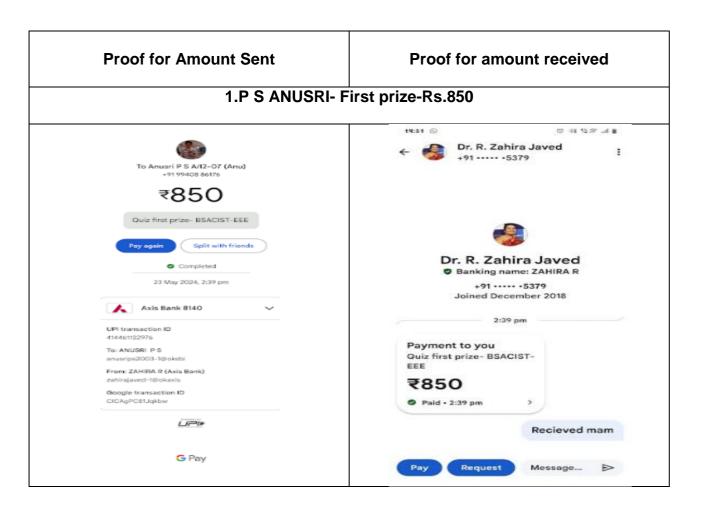


Prize Winners:

The winners were recognized for their outstanding performance in the event, and encouraged with cash awards as follows:

S.No	Name of the Participant	Name of the School	Mark Scored out of 25	Prize	Prize Amount
1	P S ANUSRI	Chinmaya Vidhyalaya Hr.Sec School	19	First	850
2	SHAGILAN U	LFC MAT HR SEC SCHOOL AMMOOR	15	Second	500
3	SIVA.I	Sri Rama Krishna Higher secondary school	15	Second	500
4	KEERTHANA M	Sri Ramakrishna Hr Sec school Tisaiyanvilai	13	Third	400

Transaction Proof:





A total of 33 plus two attended the Quiz Programme. The Technical Quiz Programme, organized for Plus Two students, concluded successfully with enthusiastic participation and commendable performances from all the participants. The event, aimed to promote interest in science, technology, and engineering among young students, providing them with a platform to showcase their technical knowledge and problem-solving abilities.

Dr. R. Zahira Associate Professor Dr. K.Sarmila Har Beagam Asst. Prof. (Sel. Gr) Dr.V. Pramila Asst. Prof.

Dr. R.Jayashree, Prof.&HoD/EEE