

# Vivekanand College, Kolhapur (Autonomous)

Department of Electronics

B. Sc-III, Sem-V

Paper Code: (DSC 1005E2)

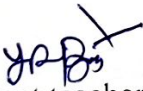
**Paper Name: Instrumentation, Antenna and Wave Propagation**

*Internal Examination Notice*

Date: 06/02/2021

This is to inform all the student of B. Sc.-III class, we are conducting **internal examination** for 20 marks **on 10/02/2021** using **Google platform**. The Google form link will be sent on what's app group 5 min before commencement of the exam. The detail time schedule of online test is given below.

Date	Time	Mode
10/02/2021	11.30 am-12.30 pm	Online-Google Platform

  
Subject teacher

Mr. P. R. Bagade



# Vivekanand College, Kolhapur (Autonomous) B.Sc-III (Sem-V) Internal Exam-2021\_ Electronics

Paper No-VI

Section-I & II

Subject Code: DSC-1005E2

Name of Paper: Instrumentation, Antenna and Wave Propagation

Date: 10/02/2021

Time: 11.30 pm to 12.30 pm

Total Marks: 20

Instructions:

1. All Questions are compulsory.
2. Each Question carries 1 Marks.
3. Figure to write indicate full marks.

\* Indicates required question

1. Email \*

\_\_\_\_\_

2. Name of the Student (First Name \_Middle Name\_Last Name) \*

\_\_\_\_\_

3. 1. The radiation pattern is a ----- dimensional quantity.

*Mark only one oval.*

One

Two

Three

None of the mentioned



4. 2. The beam width of the antenna pattern measured at half power points is called.....

*Mark only one oval.*

- Half power beam width  
 Full null beam width  
 Beam width  
 None of the mentioned

5. 3. In a non-isotropic directional antenna, which radiating lobe axis makes an angle of  $180^\circ$  w.r.t. major beam of an antenna?

*Mark only one oval.*

- Minor lobe  
 Back lobe  
 Side lobe  
 None of the mentioned

6. 4. .... is a ratio of the power dissipated into space to the net power delivered to the antenna by the transmitter circuits.

*Mark only one oval.*

- Half power beam width  
 Full null beam width  
 Radiation efficiency  
 Bandwidth



7. 5. .... transmitting or receiving system that is designed to radiate or receive electromagnetic waves

*Mark only one oval.*

- Electron gun
- Full null beam width
- Antenna
- None of the mentioned

8. 6. What is the nature of the radiation pattern of an isotropic antenna?

*Mark only one oval.*

- Spherical
- Dough-nut
- Elliptical
- Hyperbolic

9. 7. Ground wave is always ----- polarized.

*Mark only one oval.*

- Vertically
- Horizontally
- Either vertical or horizontal
- Neither horizontal nor vertical



10. 8. The shortest distance between the transmitter and the reflected ray reflected back towards the earth is called -----

*Mark only one oval.*

- Skip distance
- Vertical distance
- Actual distance
- Tropospheric wave travel distance

11. 9. What is the lowest layer of the ionosphere?

*Mark only one oval.*

- F1
- F2
- D
- E

12. 10. What is the highest frequency that can be sent straight upward and be returned to earth?

*Mark only one oval.*

- MUF
- skip frequency
- critical frequency
- gyro frequency



13. 11. ....is an active transducer.

*Mark only one oval.*

- Thermister
- LDR
- Thermocouple
- LVDT

14. 12. In the NTC type thermistor, as the temperature increases the resistance of the thermistor gets \_\_\_\_\_.

*Mark only one oval.*

- increases
- decreases
- Constant
- None of these

15. 13. The most preferable material for RTD is \_\_\_\_\_

*Mark only one oval.*

- Nickel
- Copper
- Platinum
- None of these

16. 14. The working of the thermocouple is based on ..... effect.

*Mark only one oval.*

- Seeback Effect
- piezoelectric
- peltier effect
- None of these



17. 15. Which of the following thermocouple material combination provides a higher voltage and higher temperature range?

*Mark only one oval.*

- chromel-alumel
- chromel-constantan
- copper-constantan
- iron- constantant

18. 16. The main sensing element used in the piezoelectric transducer is \_\_\_\_\_.

*Mark only one oval.*

- thermocouple
- quartz crystal
- LDR
- None of these

19. 17. Strain gauge is a \_\_\_\_\_ type transducer

*Mark only one oval.*

- temperature
- Pressure
- Optical
- None of these

20. 18. LVDT is a \_\_\_\_\_ type of transducer

*Mark only one oval.*

- temperature
- Active
- Passive
- None of these



21. 19. The working principle of LDR is \_\_\_\_\_.

*Mark only one oval.*

photo conductance

photo voltaic

photo emissive

None of these

22. 20. Which of the following is a proximity type transducer?

*Mark only one oval.*

PIR sensor

piezoelectric transducer

thermocouple

None of these

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**Vivekanand College, Kolhapur (Autonomous)**

B.Sc.-III (Sem-IV)

Paper Code: DSC 1005E2

***Paper Name : Instrumentation, Antenn and Wave propagation***

**Internal Exam- 2020-21 Marksheet**

Sr.NO	Timestamp	Username	Marks Outoff 20
1	10-02-2021 11:41	Gauri Rahul Bedagkar	15
2	10-02-2021 11:41	Durga vaijanath yadav	16
3	10-02-2021 12:00	Karan M Gharale	17
4	10-02-2021 12:01	Ashish Sunil Kamble	16
5	10-02-2021 12:07	Malhar Uday Mane	16
6	10-02-2021 12:07	Sunil Uttam Ghorpade	16
7	10-02-2021 12:10	Siddhesh shivaji shinde	16
8	10-02-2021 12:10	Kunal ketan sarnaik	16
9	10-02-2021 12:12	Shrutika sudhir gujar	16
10	10-02-2021 12:12	Snehal Mohan Chougule	16
11	10-02-2021 12:14	Shreyas sunil powar	16
12	10-02-2021 12:21	Vilas Bharmanna Dandgule	15
13	10-02-2021 12:25	Tushar dattatray chougale	11
14	10-02-2021 12:25	Deepak Vishwanath Sutar	16
15	10-02-2021 12:29	Siddharth Shital Shete	16
16	10-02-2021 12:33	Bharat Shivaji shinagare	16
17	10-02-2021 17:41	KALGUTKAR AAKASH RAJENDRA	16



Sign of Teacher  
**Mr.P.R.Bagade**

