

Shri Shivaji Education Society Amravati

Mahatma Fule Arts, Commerce and Sitaramji Chaudhari Science Mahavidyalaya Warud

Department of Zoology

Bio-Genius Quiz Competition

Report 23rd March-2022

Zoology Department organize Bio-Genius Quiz competition for B.Sc. student on dated 23rd march-2022. In this way **Dr. Ahmad Shahzad** who is the initiative for this competition working as coordinator. **Mr. K.D. Ingle** and **Mr. N.R. Kiswe** are the organizer committee for this program.

Late - Abdul Latif who was the ex-principal of the N.P. Marthi High School and Jr. College chandur Bazar were sponsor Abdul Latif-Trophy for winner to appreciation student.

Dr. S.R. Kondulkar Head of Department of Zoology were First prize 1111/- to the participant.

Zoology Department were also second prize 555/- and for the Third prize 301/- and medal to the student.

Bio- genius quiz competition we were Chief guest **Dr. Y.S.Tamgadge** and President **Dr. U.E. Chaudhari** and Special Guest **Dr. R. Ganorkar sir, Dr. V.N. Telmore** and **Dr. S. Satpute**.

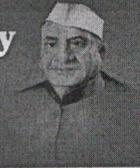
Where the chief guest **Dr. Y.S. Tamgade** address to student and idea about their development. In this way program president/ Principal **Dr. U.E. Chaudhari** Sir also addressing to the student and encourage to student for participation.

Photo:-





Shri Shivaji, Education Society, Amaravati
Golden Jubilee year of Science faculty
 (2021-22)



Mahatma Fule Arts, Commerce & Sitaramji Chaudhari
 Science Mahavidyalaya, Warud, Dist Amaravati

Department of Zoology

in Collaboration with IQAC

First Prize

Dr. S.R.
 Kondulkar
 (H.O.D)
 Zoology Department

1111/-



23rd March 2022



Late- Abdul Latif Trophy

Second Prize

Zoology
 Department

555/-

Co-ordinator: Dr. Ahmad Shahzad

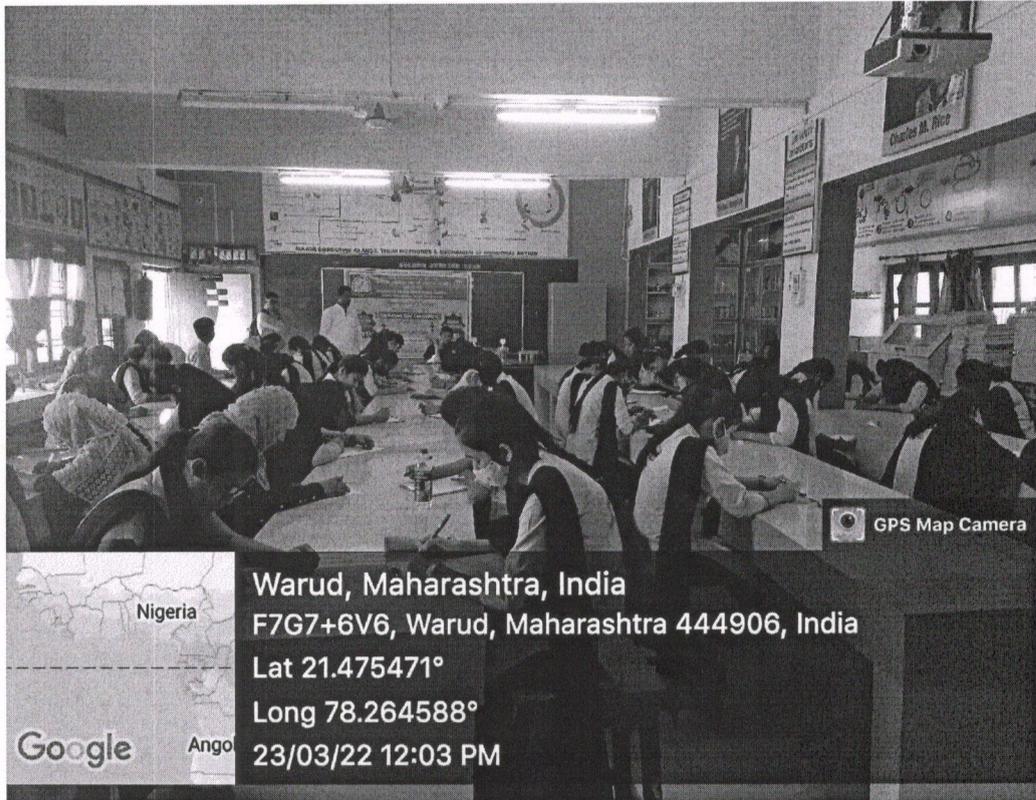
Organizing Members :

1) Dr. V.S. Panchwate, 2) Mr. K.D. Ingle, 3) Mr. N.R. Kiswe

Principal

Dr. U.E. Chaudhari
 Head

Dr. S. R. Kondulkar



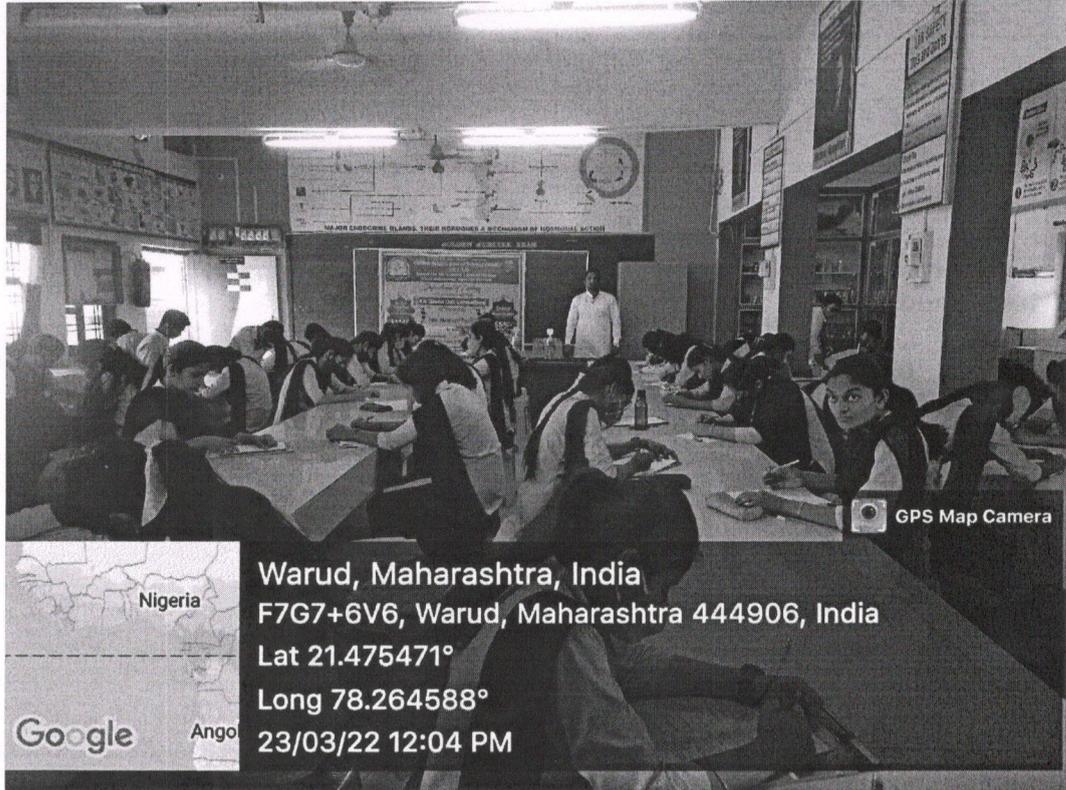
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A. D. Shahzad.
 23/3/2022
 Co-ordinator

Dr. Ahmad Shahzad

[Signature]
 Head

Department of Zoology
 Head
 Deptt. of Zoology
 Mahatma Fule Arts & Comm. &
 Sitaramji Chowdhri Science Mahavidyalaya,
 Warud, Dist. Amravati

[Signature]
 IQAC

IQAC Coordinator
 Mahatma Fule Arts, Commerce and
 Sitaramji Chaudhari Science
 Mahavidyalaya, Warud, Dist. Amravati

[Signature]
 Principal

Principal
 Mahatma Fule Arts, Commerce & Sitaramji
 Chaudhari Science Mahavidyalaya, Warud



Shri Shivaji, Education Society, Amravati

Golden Jubilee Year of Science Faculty 2021-22

Mahatma Fule Arts, Commerce and Sitaramji Chaudhari Science Mahavidyalaya Warud Dist., Amravati

Department of Zoology

Bio-Genius Quiz Competition

Date: -

Mark Obtain

Name of Participant: -

1. Restriction enzymes were discovered by

- a. Smith and Nathans
- b. Alexander Fleming
- c. Berg
- d. None

2. Bacteria protect themselves from viruses by fragmenting viral DNA with

- a. Ligase
- b. Endonuclease
- c. Exonuclease
- d. Gyrase

3. Klenow fragment is derived from

- a. DNA Ligase
- b. DNA Pol-I
- c. DNA Pol-II
- d. Reverse Transcriptase

4. Southern blotting is

- a. Attachment of probes to DNA fragments
- b. Transfer of DNA fragments from electrophoretic gel to a nitrocellulose sheet
- c. Comparison of DNA fragments to two sources
- d. Transfer of DNA fragments to electrophoretic gel from cellulose membrane

5. Termination of replication is triggered by

- a. DNA polymerase
- b. Helicase
- c. SSB
- d. Tus protein

6. The Golden Rice variety is rich in

- a. Vitamin C
- b. B-carotene and ferritin
- c. Biotin
- d. Lysine

7. The DNA fragments have sticky ends due to

- a. Endonuclease
- b. Unpaired bases
- c. Calcium ions
- d. Free methylation

8. Plasmids are used as cloning vectors for which of the following reasons?

- a. Can be multiplied in culture
- b. Self-replication in bacterial cells
- c. Can be multiplied in laboratories with the help of enzymes
- d. Replicate freely outside bacterial cells

9. The human genome project was launched in the year

- a. 1980
- b. 1973
- c. 1990
- d. 1989

10. The vaccines prepared through recombinant DNA technology are

- a. Third generation vaccines
- b. First-generation vaccines
- c. Second-generation vaccines
- d. None

11. Which is a genetically modified crop?

- a. Bt-cotton
- b. Bt-brinjal
- c. Golden rice
- d. All

12. DNA polymerase synthesizes

- a. DNA in 5'-3' direction
- b. DNA in 3'-5' direction
- c. mRNA in 3'-5' direction
- d. mRNA in 5'-3' direction

13. The first transgenic plant to be produced is

- a. Brinjal
- b. Tobacco
- c. Rice
- d. Cotton

14. RNA interference helps in

- a. Cell proliferation
- b. Micropropagation
- c. Cell defence
- d. Cell differentiation

15. Which of the following is the quality of improved transgenic basmati rice?

- a. Gives high yield but no characteristic aroma
- b. Gives high yield and is rich in vitamin A
- c. Does not require chemical fertilizers and growth hormones
- d. Resistant to insects and diseases

16. The first clinical application of gene therapy over a 4 year old girl was for

- a. Adenosine deaminase deficiency
- b. Adenosine deficiency
- c. Growth deficiency
- d. Adenine deficiency

17. Excision and insertion of a gene is called

- a. Biotechnology
- b. Genetic engineering
- c. Cytogenetics
- d. Gene therapy

18. The expression of a transgene in the target tissue is identified by a

- a. Transgene
- b. Promoter
- c. Enhancer
- d. Reporter

19. _____ is used as a vector for cloning into higher organisms

- a. Retrovirus
- b. Baculovirus
- c. *Salmonella typhimurium*
- d. *Rhizopus nigricans*

20. Which of the following helps in opening of DNA double helix in front of replication fork?

- a. topoisomerase
- b. DNA polymerase-I
- c. DNA gyrase
- d. DNA ligase

21. Which of the following units is used to measure the intensity of noise?

- a. Decibel
- b. Phon
- c. Hz
- d. Watts/m

22. Human ear is most sensitive to noise in which of the following frequency range?

- a. 1-2 kHz
- b. 10-12 kHz
- c. 100-500 Hz
- d. 13-16 kHz

23. Which of the following pairs regarding typical composition of hospitals wastes is incorrect?

- a. Plastics: 9-12%
- b. Metals: 1-2%
- c. Ceramic: 8-10%
- d. Biodegradable: 35-40%

24. Maximum soot is released from _____

- a. Petrol vehicles
- b. Diesel Vehicles
- c. CNG vehicles
- d. Thermal power plants

25. The chemical responsible for blue baby syndrome that is caused by restricted supply of oxygen to the brain is _____

- a. Nitrates
- b. Fluorides
- c. Sulphates
- d. Oxides

26. Which of the following metal is responsible for Minamata disease?

- a. Mercury
- b. Chromium
- c. Cadmium
- d. Iron

27. During replication, Okazaki fragments elongate

- a. leading strand towards the replication fork
- b. lagging strand towards the replication fork
- c. leading strand away from the replication fork
- d. lagging strand away from the replication fork

28. Which of the following enzymes separates the two strands of DNA during replication?

- a. Gyrase
- b. Topoisomerase
- c. Helicase
- d. DNA polymerase

29. DNA replication is

- a. conservative
- b. conservative and discontinuous
- c. semi-conservative and discontinuous
- d. semi-conservative and semi-discontinuous

30. Which of the following is used in DNA replication studies?

- a. *Neurospora crassa*
- b. *Drosophila melanogaster*
- c. *Escherichia coli*
- d. *Pneumococcus*