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Prof. Jagruti Chaugule: 9892973667

Vidyavardhini's

Annasaheb Vartak College of Arts, Kedarnath Malhotra College of Commerce,

E. S. Andrades College of Science

Vasai Road(west), Pin - 401202, Dist- Palghar, Maharashtra

DEPARTMENT OF BOTANY AND ZOOLOGY

In Collaboration with IQAC And Science Association

On the occasion of

NATIONAL SCIENCE DAY

Presents

Quizology

A Quiz competition on Biology

28th of February (Tuesday) | 12:00 PM

Venue : Zoology lab (Laboratory no. 25 - old building)

Open for students from all departments

E-certificates will be provided to all participants and special prizes to the Winners

Rules :

- Team registration will be done (3-5 participants each).
- Each team must have participants from 2 different levels (for e.g. 2 participants from first year and 2 from second year).
- Only the teams registering by google form will be allowed to participate.
- Only one Team member should register from each team.



Scan the QR code or click
the link below to register :

[https://forms.gle/eQoNW
Wm45JFiPVdjZ](https://forms.gle/eQoNW
Wm45JFiPVdjZ)

Department of Botany, Zoology & Science Association Cell

Date: 26th February 2023

The Principal & IQAC Co-ordinator
A. V. College of Arts, K. M. College of Commerce.
E. S. A. College of Science
Vasai Road (W).

Subject: Permission to conduct Quiz competition on the occasion of ‘National Science Day’ (Theme: Global science for global well-being)

Dear Sir

We, at the Department of **Botany and Zoology in collaboration with Science association** wish to organize an Intra-college **Quiz competition** on the occasion of ‘**National Science Day (Theme: Global Science for Global Well-being)**’ according to the details given below:

Topic: Biology

Speakers: i) Dr. Arvind Ubale (Principal)

ii) Mr. Anilkumar Shelke (Guest Speaker)

iii) Mr. Ameer Shaikh (Host)

iv) Ms. Jagruti Chaugule

v) Ms. Nancy Rathod

Objectives of the Quiz competition:

1. To celebrate the noble prize winning research work of Dr. C.V. Raman.
2. To educate students about the Raman effect and its daily applications.
3. To encourage students to carry out research.
4. To create a healthy and competitive environment for students (Participants as well as audience) to learn.
5. To evaluate students’ general knowledge of Science.

Date of Competition: 28th February 2023

Quiz competition is for: Students

Other colleges involved:

1. No
2. No

No. of participants expected: 1) Students: i) College: 25-30

ii) From outside college: Nil

2) Staff: i) College: Nil

ii) From outside college: Nil

Expected expenditure: Rs. 500

Source of funding: College

We will be very grateful, if you grant the permission to organize the Quiz competition.

Thank you.

Yours faithfully,

Headsof -Botany & Zoology Department
Mrs. V. S.Wankhede &

Post-Activity Report

Department of Botany and Zoology

Date: 26th February 2023

No. of Beneficiaries: 1) Students: i) College:

ii) From outside college: Nil

2) Staff: i) College: Nil

ii) From outside college: Nil

Outcomes of the Quiz competition:

1. Students got educated about the significance of being a noble laureate.
2. Students learnt about the Raman Effect and its application in the simplest way.
3. Students were encouraged to acquire knowledge of various fields of Science.
4. Juniors and Senior students interacted with each other and shared their knowledge.

Feedback analysis of students:

Total expenditure (attach photocopies of bills): Rs. 386

Detailed Report of the Quiz competition

The Quizology was inaugurated by Principal Dr. Arvind ubale who gave an inspirational speech regarding the pursuit of science, which was followed by a brief introduction of Raman effect by Dr. AnilKumar shelke.

The felicitation of dignitaries was hosted by Ms. Jagruti chaugule.

The Quizology commenced and hosted by Mr. Ameer shaikh. In this event 6 teams participated each consisting of 4-5 members of different levels.

The Quizology questions were mostly Biology based and it was displayed on to the projector and the host also presented verbally.

The first team to know the answer to the question had to ring the bell kept in front.

The event concluded with a lot of learning for both participants as well as the audience and teachers.

ROUND 1

- 1) The human genome project was launched in the year
(a) 1980 (b)1973 (c) 1990 (d) 1989

- 2) Herpetology is the branch of science that deals with the study of___?
(a)Fishes (b)Insects (c)Snakes (d)Amphibians and Reptiles

- 3) Which is the largest phylum of Animalia?
(a)**Arthropoda** (b)Annelida (c)Moluska (d) Aves

- 4)Venation is the term used for
(a) **Veins** (b) Flowers (c)Leaves (d)All the above

- 5)Placentation found in pea
(a)Basal (b)Apical (c)Marginal (d) None of the above

- 6) Spindle shaped roots are found in
(a)Napiform (b)Fusiform (c)Coniform (d)None of the above

- 7) Which of the following proteins does not function in cell-cell interaction?
(a) Cadherin (b) Cytochrome c (c) Integrin (d)N-CAM

- 8) 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

9) Excision and insertion of a gene is called

(a)Biotechnology (b)Genetic engineering (c)Cytogenetics (d)Gene therapy

10) World Health Organisation on 11 February, 2020 announced an official name for the disease that is causing the 2019 novel coronavirus outbreak? What is the new name of the disease?

(a) COVID-19 (b) COVn-19 (c) COnV-20 (d) COnVID-19

ROUND 2

1. Which of the following protects our body against disease-causing pathogens?

(a) Respiratory system (b) Immune system (c) Digestive system (d) Respiratory system

2. Salamander belongs to the class_____.

a)Pisces b)Aves c)Reptiles d)Amphibian

3. _____ is a blood disorder where the haemoglobin is defective

a)Heterochromia b)Alopecia c)Haemolysis d)Sickle cell anaemia

4. Which of the following constitutes a fossil?

a) A mineralized burrow of an extinct animal

b) An unidentified animal found frozen in a glacier

c) An ant found inside a block of amber, dating back to 110 million years

d) All of the above

5) Sickle shaped expanded leaf petiole is called

(a) Phyloclade (b)Cladode (c)Phylode (d)None of the above

6) Pendulous inflorescence is

(a) Catkin (b)Spike (c)Spadix (d)Raceme

7) Which disease is caused by the fungi?

(a) Polio (b) Malaria (c) Dermatitis (d) Cholera

8) Which animal never drinks water?

(a) A koala (b)A camel (c) A kangaroo rat (d) Skink

9) The first case of novel coronavirus was identified in

(a) Beijing (b) Shanghai (c)Wuhan, Hubei (d) Tianjin

10) Which is the insectivorous plant

(a) Dionea (b) Drosera (c) Nepenthes (d) All of the above

Round 3

1)Who is known as Father of modern genetics?

a) Gregor Mendel b) Charles Darwin c) Louis Pasteur d) Jean Lamark

2) The Environment Act of Government of India was passed in

(a) 1976 (b) 1966 (c) 1986 (d) 1996

3) Viviparity is found in

(a) Sharks (b) lizards (c) Frogs (d) birds

4) RNA differs from DNA in having

a)Thyamine b)Guanine b)Uracil c)Adenine

5) Deposition of calcareous shell around zygote occurs in

(a)birds and reptiles (b) birds and mammals (c) mammals and reptiles (d) all of these.

6) Presence of large amount of nutrients in water cause excessive growth of

(a)Lotus (b) Fungal bloom (c) Bacterial bloom (d) Algal bloom

7)Roots which help the horizontal branches of Banyan tree in the air are called

(a) Stilt roots (b) Thumb roots (c) Prop roots (d) All of the above

8) Generally Restriction Enzymes are

a)Sticky ends b)Ligases c)Vectors d)Molecular scissors

9)Which of the following is a post-fertilisation event in flowering plants?

a)Transfer of pollen grains

(b) Embryo Development

(c) Formation of flower

(d) Formation of pollen grains

10) A plasmid can be considered as a suitable cloning vector if

a) It can be readily isolated from the cells.

b) It possesses a single restriction site for one or more restriction enzymes.

c) Insertion of foreign DNA does not alter its replication properties.

d) All of the above.

11) The greenhouse gases are

- (a) Hydrogen and Oxygen (b) Oxygen and nitrogen
(c) Helium and argon (d) Carbon dioxide and methane

12) Fossils are generally found in

- (a) Sedimentary rocks (b) Igneous rock (c) Metamorphic rocks (d) Any type of rock.

13) Which of the following techniques is used for reducing the total dissolved solids (TDS) in the water?

- (a) Osmosis (b) Ion exchange (c) Distillation (d) Both b and c

4) Which of the following statements are true about CNG -Compressed natural gas?

- (a) It is a clean fuel (b) It is a harmful fuel (c) It is a polluting fuel (d) All of the above.

15) Which of the following units is used for measuring the turbidity of water?

- (a) EAU Formazin Attenuation Units
(b) FNU- Formazin Nephelometric Unit
(c) NTU – Nephelometric Turbidity Units
(d) All of the above.

National Science Day Quiz

Timestamp	Email address	Number of participants in a group	Name of Participants-	Class of participants-	Contact of any 1 participant from the team-	Name of the team- (for example- science warrior)
27-02-2023 10:55	rhutumakani@gmail.com	5 individuals	Rhutanishi Makani Snehal Gawade Jidnyasa Raut Khan Maria Sayyed Rohit	F.Y, T.Y	9325572153	Penta-whorls
27-02-2023 14:15	arpan.nandysbz21@avc.ac.in	5 individuals	Arpan Prasanta Nandy Misbaah Salamullakhan Wakil Priyanka Bhawanath Jha Abdul Aziz Shaikh Samiksha Amol Naiksatam	F.Y, T.Y	Arpan Nandy:- 9075367261	Team Cassiopeans
27-02-2023 14:56	fatimaanjumc@gmail.com	4 individuals	Iqra khan Fatima Anjum Ariba qureshi Muskan chotani	F.Y, T.Y	9766706533	Species squad
27-02-2023 17:39	khatijashaikh12345678@gmail.co	5 individuals	Khatija Shaikh, Ankita Prajapati, Janavi Maurya, Prem Sing, Maisarjahan Khan	F.Y, T.Y	7219860890	Fantastic biologist
28-02-2023 11:19	khushe3002@gmail.com	3 individuals	Khushi Singh Vaishnavi Singh Sobiya Khan	F.Y, S.Y	9322503814	Simple minds
28-02-2023 11:40	ksaud2727@gmail.com	4 individuals	Saud khan, Khurshid Shaikh, Varun Singh, rohit	F.Y, S.Y	8446133634	Zoo warriors
28-02-2023 12:38	itzrajsingh05@gmail.com	5 individuals	Khushi singh Vaishnavi singh Bhavik chauhan Sobiya khan Santoshi verma	F.Y, S.Y	9322503814	SIMPLE MINDS