

ESTD: 1967

P.B.No: 03



V.M.V.V.SANGHA'S

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**National Level e-Quiz on "General Physics" Organized by Dept. Physics
from 22-07-2020 to 31-08-2020.**

ESTD: 1967
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No. VMCH/ Physics/2019-20
Date: 31.08.2020

To,
The Coordinator, IQAC
V.M.K.S.R.Vastrad Arts, Science
And V.S.Bellihal Commerce College,
Hungund.

**Sub: Submission of Report of National Level E-Quiz Organized by
Department of Physics. (IQAC Initiative)**

Respected Sir,

With reference to the cited Subject above, I am Mr. Anand Teli Assistant Professor in
Physics, submitting the report on the National E-Quiz organized by the department of
Physics on the 22nd July to 31st August 2020, 1596 faculty members, research scholars and
Students have taken part in the E-Quiz.

Thanking You

Hungund,
31.08.2020


PRINCIPAL
Vijaya Mahantesh Krupaposhit
S.R. Vastrad Arts, Science And Vijay
Shankarappa Bellihal Commerce College,
Hungund-587118

Your's faithfully

[Mr. A. T. Teli]
Asst. Professor & Head
Dept. of Physics

Report of the e-Quiz

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List of Participants

[[Certificate id]]



VMW Sangha's
V.M.K S.R.VASTRAD ARTS, SCIENCE & V.S.BELLIHAL COMMERCE COLLEGE, HUNGUND, INDIA-587118
Re-accredited "B+" by NAAC at 3rd Cycle
(Affiliated to Rani Channamma University, Belagavi)

CERTIFICATE OF APPRECIATION

This is to certify that [[Full Name]] has successfully completed IQAC Initiative National Level e-Quiz On "Nuclear & Particle Physics-2020" Organized by Department of Physics of V.M.K S.R.VASTRAD ARTS, SCIENCE & V.S.BELLIHAL COMMERCE COLLEGE, BAGALKOT, KARNATAKA, INDIA- 587118 on [[Date]].

(Dr.S.R.Golagond)
IQAC Coordinator

(Mr.Anand Teli)
HoD Physics

(Prof.Smt.S.K.Math)
Principal

Certificate Format Issued to the Participants

Vijaya Mahantesh Krupaposhit S. R. Vastrad
Arts, Science & V. S. Bellihal Commerce
College Hungund - 587118 Affiliated Rani
Channamma University, Belagavi Re-accredited
'B+' by NAAC at 3rd Cycle

Greetings to All

Department of Physics, Vijaya Mahantesh Krupaposhit S. R. Vastrad Arts, Science & V. S. Bellihal Commerce College Hungund, Bagalkot Dist, Karnataka-587118 has organised an National Level e-Quiz on Nuclear Physics for Faculty members and Students.

- * Participants should fill the registration form carefully.
- * Participants scores more than 40% in the quiz then they will receive an printable e-certificate through registered email id.

Please Stay Home, Stay Safe and Keep Learning PHYSICS .

With Best Regards,

Mr. Anand Tell
HOD & Assistant Professor
Department of Physics

Mr. Mahesh Madar
Assistant Professor
Department of Physics
* Required

1. Email address *

2. Full Name in Capital Letters (with salutation Prof/Dr/Mr/Ms/Mrs) *

Google Form

01/06/2020

Vijaya Mahallesh Krupapoojit S. R. Vasthal Arts, Science & V. S. Bolkhal Commerce College Havgard - 587116 A/BI/2020 20

3. Name of the College/ Institution/ University *

4. Participant Type *

Mark only one oval.

UG STUDENT

PG STUDENT

FACULTY

RESEARCH SCHOLAR

Other _____

5. Department *

6. Place *

7. District *

8. State *

9. Country *

Google Form

10. Mobile Number *

National Level Quiz on Nuclear & Particle Physics-2020

11. 1. What is the average binding energy of a nucleon in the nucleus of an atom ? * 2 points

Mark only one oval.

- (A) 7.8 eV
- (B) 7.8 KeV
- (C) 7.8 MeV
- (D) 7.8 BeV

12. 2. The binding energy per nucleon of He nucleus is 7 MeV and that of deuteron is 1 MeV. Then..... * 2 points

Mark only one oval.

- (A) Deuteron nucleus is more stable
- (B) Both are less stable
- (C) Helium nucleus is more stable
- (D) Both are equally stable

13. 3. The volume of a nucleus in a atom is proportional to the.... * 2 points

Mark only one oval.

- (A) Neutron number
- (B) Proton number
- (C) Mass number
- (D) Electron number

14. 4. The study of the scattering of slow neutrons by magnetic materials provides convincing proof that neutrons possess..... * 2 points

Mark only one oval.

- (A) A magnetic moment
 (B) Charge
 (C) Zero mass
 (D) All of the above

15. 5. Nuclear forces are * 2 points

Mark only one oval.

- (A) Spin dependent and have no non-central part
 (B) Spin dependent and have a non-central part
 (C) Spin independent and have a non-central part
 (D) Spin independent and have no non-central part

16. 6. Which of the following statement/s is/are incorrect for the nuclear force between two nucleons ? * 2 points

Mark only one oval.

- (A) It is spin independent
 (B) it is charge independent
 (C) It is velocity dependent
 (D) none of these

17. 7. Atoms with nuclear spin equal to half cannot have ____ * 2 points

Mark only one oval.

- (A) Fine structure
- (B) Magnetic interactions
- (C) Electric quadrupole moment
- (D) Dipole interaction between atoms

18. 8. Which of the following atomic particle have a least mass? * 2 points

Mark only one oval.

- A. Electron
- B. Proton
- C. Neutron
- D. Deuteron

19. 9. Who demonstrated that mass of an atom is located in the nucleus? * 2 points

Mark only one oval.

- A. Thomson
- B. Rutherford
- C. Bohr
- D. Gieger-Miller

20. 10. Which rays penetrates more? * 2 points

Mark only one oval.

- A. Alpha rays
- B. Beta rays
- C. Gamma rays
- D. Neither A or B

Questions

21. 11. In which rays Mesons are found? *

2 points

Mark only one oval.

- A. Beta rays
- B. Cosmic rays
- C. Laser rays
- D. All of the above

22. 12. The probability of electrons being captured by the nucleus... *

2 points

Mark only one oval.

- A. K shell electrons
- B. L shell electrons
- C. M shell electrons
- D. Electrons in the outermost orbits.

23. 13. The quark composition of proton is *

2 points

Mark only one oval.

- A. udd
- B. uuu
- C. ddd
- D. uud

24. 14. Which of the following elementary particle is lepton? *

2 points

Mark only one oval.

- A. Muon
- B. Photon
- C. Pion
- D. Proton

25. 15. The theory governing combination of quarks based on quantum electrodynamics. 2 points
is called *

Mark only one oval.

- A. Baryon theory
 B. Meson theory
 C. Lepton Theory
 D. Quantum chromodynamics

26. 16. The 'quarks' are supposed to exist in following number of flavours * 2 points

Mark only one oval.

- A. 6
 B. 3
 C. 12
 D. 8

27. 17. Relative strength for strong interaction is 2 points

Mark only one oval.

- A. 0.9
 B. 1.0
 C. 1.2
 D. Infinity

Questions

28. 18. Which particle is responsible for carrying away the missing energy and momentum in a nuclear decay process? *

2 points

Mark only one oval.

- A. Lepton
 B. Proton
 C. Neutrino
 D. Alpha particle

29. 19. Which of the following scientists were responsible for the first splitting of a nucleus by artificially accelerated particles? *

2 points

Check all that apply.

- A. Ernest Walton & John Cockcroft
 B. Glashow & Maini
 C. Gell-Mann & Rutherford
 D. G. Zweig & Fermi

30. 20. Which one of the following particle does not have a spin $1/2$? *

2 points

Mark only one oval.

- A. Photon
 B. Proton
 C. Neutrino
 D. Neutron

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Questions