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- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Autonomous)

Department of Physics

ICT based CIE

on

B.Sc. II: Internal Examination of Galaxies, Cosmology and Solar system and Cosmic Electrodynamics

Conducted by

Dr. G. J. Navathe

on

Date:12/07/2021, Time: 12:00 to 01:00 pm

(2020 – 21)

Vivekanand College, Kolhapur. (Autonomous) Dept. of Physics Internal evaluation examination July 2021

B.Sc. II SEM IV

Subject: Astrophysics Paper-II

Title: Galaxies, Cosmology and Solar system and Cosmic Electrodynamics

Date:12/07/2021

Time: 12:00 to 01:00 pm

Marks: 20

Instructions: 1. All questions are compulsory
2. Each question carry 1 mark
3. Submit Google form in scheduled time .

* Indicates required question

1. Email *

2. Name *

3. Roll No.

4. PRN No. *

5. Seat No. *

6. The red shift of Quasars measures ----- *

Mark only one oval.

- a) the shape
- b) the age of formation
- c) their intensity
- d) their distance from earth

7. Galaxies that are extremely bright are called ----- *

Mark only one oval.

- a) active galactic nuclei
- b) supercluster
- c) radio galaxies
- d) spiral galaxies

8. The period of Halley's comet for earth is ---- *

Mark only one oval.

- a) 76 years
- b) 72 years
- c) 70 years
- d) 74 years

9. Galaxy is ----- *

Mark only one oval.

- a) group of planets
- b) group of stars
- c) group of satellites
- d) group of asteroids

10. our milky way galaxy is ----- *

Mark only one oval.

- a) spiral galaxy
- b) elliptical galaxy
- c) barred spiral galaxy
- d) irregular galaxy

11. Electromagnetic waves are ----- waves *

Mark only one oval.

- a) Longitudinal
- b) Transverse
- c) Transverse or longitudinal
- d) None

12. Gauss' s law is valid for ----- *

Mark only one oval.

- a) any closed surface
- b) only regular closed
- c) any open surface
- d) only regular open surface

13. Maxwell' s second equation interpret ----- *

Mark only one oval.

- a) Magnetic monopole exists
- b) Electric monopole exists
- c) Magnetic monopole does not exist
- d) electric dipole exists

14. Maxwell's fourth equation is also called as ----- *

Mark only one oval.

- a) Gauss law in electrostatics
- b) Gauss law in magneto statics
- c) Faraday's law
- d) Maxwell' s correction to Ampere' s circuital law

15. The work done on a unit positive charge in bringing it from infinity to any point is called as ---- *

Mark only one oval.

- a) Intensity at that point
- b) Electric potential at that point
- c) Electric potential at infinity
- d) Electric intensity at infinity

16. Property of a fluid by which molecules of different kinds of fluids are attracted to each other is called----- *

Mark only one oval.

- (A) Adhesion
- (B) Cohesion
- (C) Viscosity
- (D) Compressibility

17. Ideal fluid is compressible i.e. its a density has ---- *

Mark only one oval.

- a. constant uniform value
- b. constant non-uniform value
- c. Zero
- d. variable

18. By the law of conservation of mass, there is no ----- of mass. *

Mark only one oval.

- a. loss
- b. gain
- c. accumulation
- d. none of these

19. In laminar flow the velocity of the moving fluid at any fixed point ----- *

Mark only one oval.

- a. does not change with time
- b. changes with time
- c. changes with distance travelled
- d. changes with distance and time

20. Present solar system was formed _____ yrs ago. *

Mark only one oval.

- a) five billion
- b) eight million
- c) six thousand
- d) two hundred

21. Our solar system consists _____ number of asteroids. *

Mark only one oval.

- a) hundred
- b) thousand
- c) zero
- d) several

22. Solar system is formed by the process of _____ *

Mark only one oval.

- a) evaporation
- b) condensation
- c) vaporization
- d) both a & c

23. The nature of graph of velocity (v) against distance (x) in case of Hubble law is _____ *

Mark only one oval.

- a) Parabolic curve
- b) Straight line
- c) Square
- d) zig zag

24. According to Gammow the beginning matter of the universe is called as _____ *

Mark only one oval.

- a) delta
- b) epoch
- c) ylem
- d) theta

25. The universe reaches to present state after _____ billion years of big-bang. *

Mark only one oval.

- a) 2
- b) 6
- c) 12
- d) 20

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Vivekanand College, Kolhapur. (Autonomous) Dept. of Physics Internal evaluation examination July 2021

54 responses

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Rushikesh Ramrao patil

Atul Dhondiram Powar

Asmita Ramesh Patil

Dipa anil dhamanekar

Sakshi Babgonda Patil

Deepa Anil Dhamanekar

Wasim shajahan nadaf

Sandesh Haridas Desai

SHRINIVAS MALLAPPA GUDAMI

Faijan najim pathan

Saad Akhtarhusen Jamadar

Swagat Dadaso Sutar

Ketan Dattatray Khanaj

Amol bhikaji kamble

PATIL HARSHVARDHAN ASHOK

Patil Rajvardhan Ashok

Pratiksha Ranjeet Lambe

Sushant Dhokare



Niranjan A Patil

Sourabh koigade

Omkar Davang

Sourabh Ravindra Kumbhar

Prathamesh Mengane

vinayak dhanaji dhonukshe

Mitali Vijay Naik

Vaishnavi Yuvaraj Patil

Siddhanath chandrakant gopane

Prathamesh Rajesh Patil

Rutuja Anil Patil

Digvijay

Vyankatesh Velhal

Milind Mahadev Patil

tushar nayaku patil

JITENDRA DHARANIYA

Dhanashree Ananda Raval

MISBAH Golandaj

Prajwal Ashok Mali

Subodh prashant kamble

ROHIT SANJAY SINGH

Shirkande Sahil Bhauso



Manish Kishor Sawant

Akash shakato kenjalekar

Nandini Siddharthshankar koli

Harshdeep Powar

Dhiraj kerba koravi

Aditi brijesh chauhan

Rupesh Maruti Firinge

Gaurav Vishnu Gumane

Bhveshwar Shamrao Devadkar

Sourbh fadtare

Prasad shivaji kokate

SATYAJEET SUDHAKAR PATANE



Roll No.

54 responses

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Seat No.

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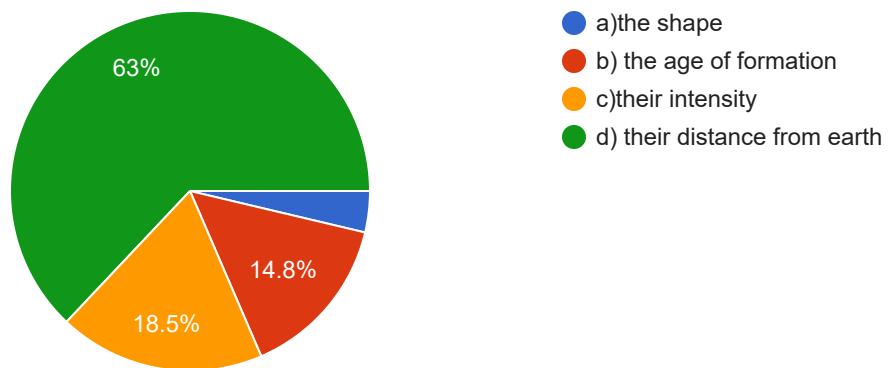
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The red shift of Quasars measures -----

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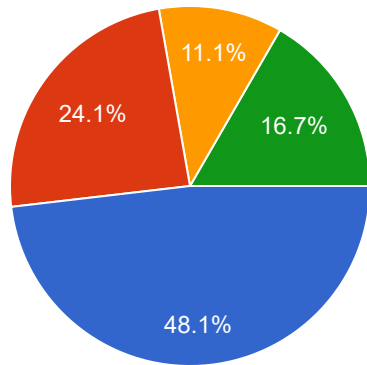
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Galaxies that are extremely bright are called -----

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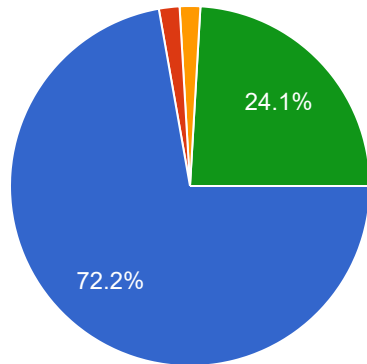


- a) active galactic nuclei
- b) supercluster
- c) radio galaxies
- d) spiral galaxies

The period of Halley's comet for earth is ----

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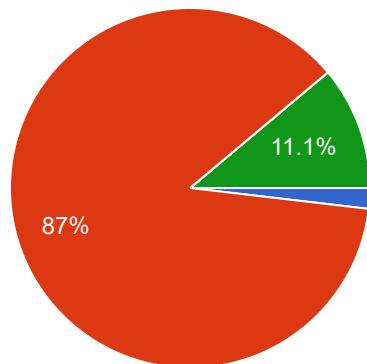


- a) 76 years
- b) 72 years
- c) 70 years
- d) 74 years

Galaxy is -----

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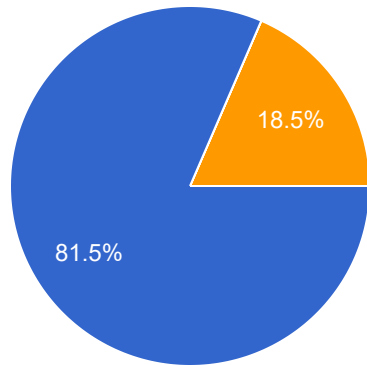
- a) group of planets
- b) group of stars
- c) group of satellites
- d) group of asteroids



our milky way galaxy is -----

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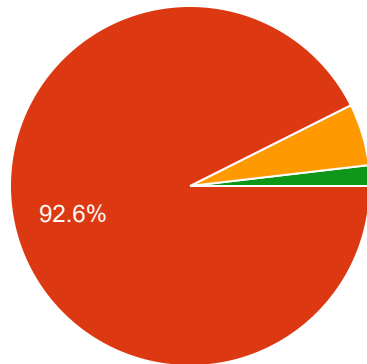


- a) spiral galaxy
- b) elliptical galaxy
- c) barred spiral galaxy
- d) irregular galaxy

Electromagnetic waves are ----- waves

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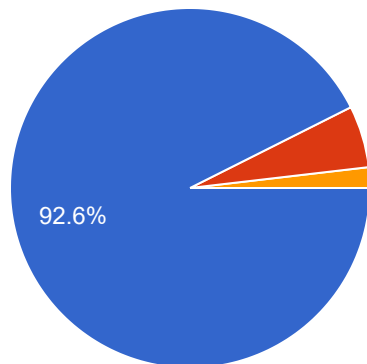


- a) Longitudinal
- b) Transverse
- c) Transverse or longitudinal
- d) None

Gauss' s law is valid for -----

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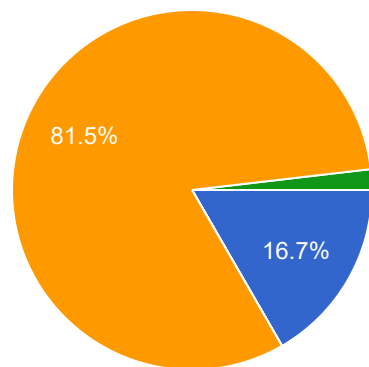
- a) any closed surface
- b) only regular closed
- c) any open surface
- d) only regular open surface



Maxwell's second equation interpret -----

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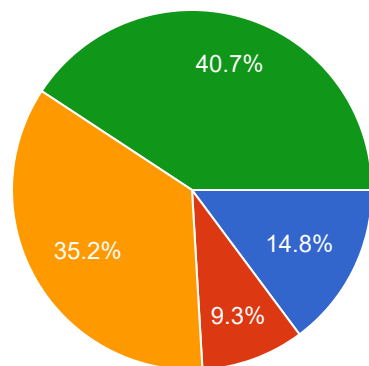


- a) Magnetic monopole exists
- b) Electric monopole exists
- c) Magnetic monopole does not exist
- d) electric dipole exists

Maxwell's fourth equation is also called as -----

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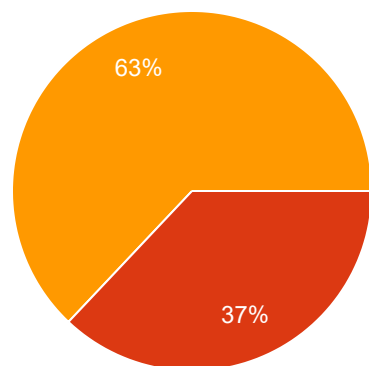


- a) Gauss law in electrostatics
- b) Gauss law in magneto statics
- c) Faraday's law
- d) Maxwell's correction to Ampere's circuital law

The work done on a unit positive charge in bringing it from infinity to any point is called as ----

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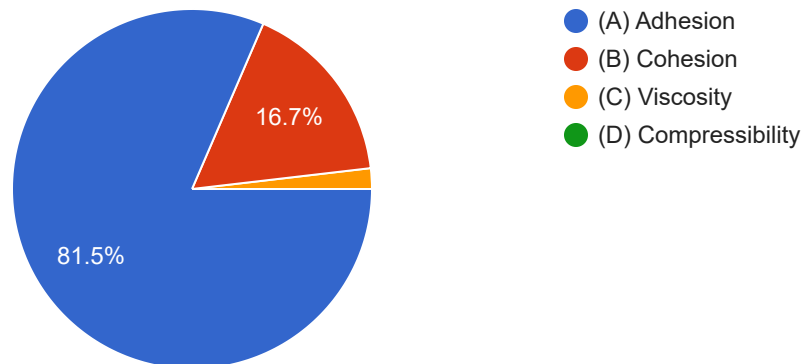
- a) Intensity at that point
- b) Electric potential at that point
- c) Electric potential at infinity
- d) Electric intensity at infinity



Property of a fluid by which molecules of different kinds of fluids are attracted to each other is called-----

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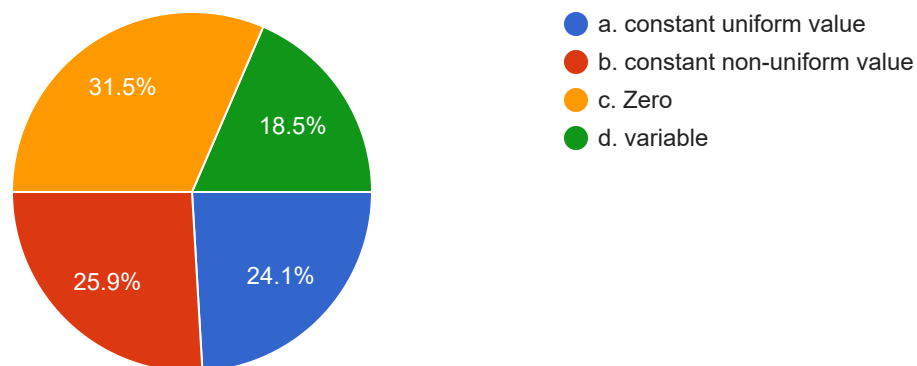
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Ideal fluid is compressible i.e. its a density has ----

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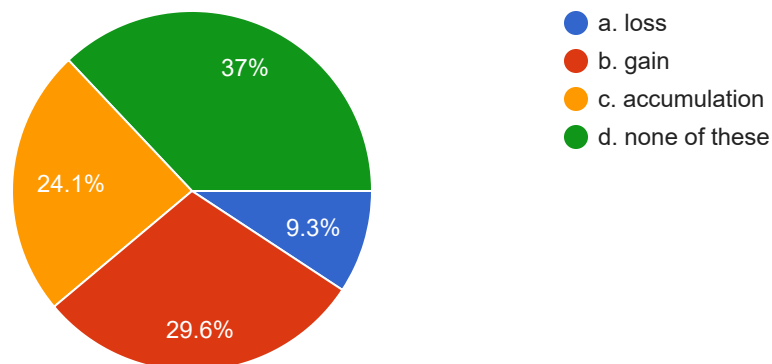
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By the law of conservation of mass, there is no ----- of mass.

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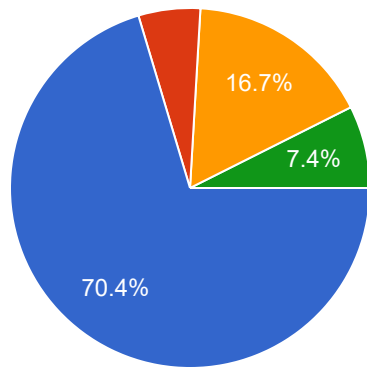
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In laminar flow the velocity of the moving fluid at any fixed point -----

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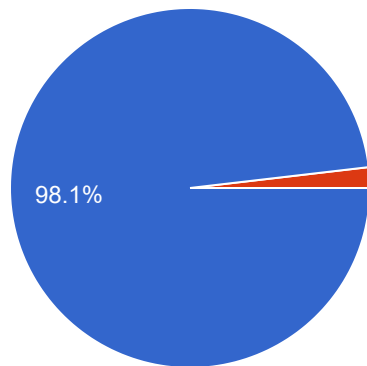


- a. does not change with time
- b. changes with time
- c. changes with distance travelled
- d. changes with distance and time

Present solar system was formed _____ yrs ago.

 Copy

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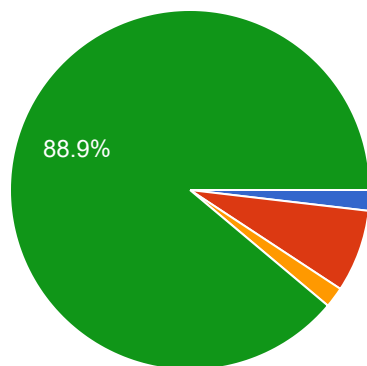


- a) five billion
- b) eight million
- c) six thousand
- d) two hundred

Our solar system consists _____ number of asteroids.

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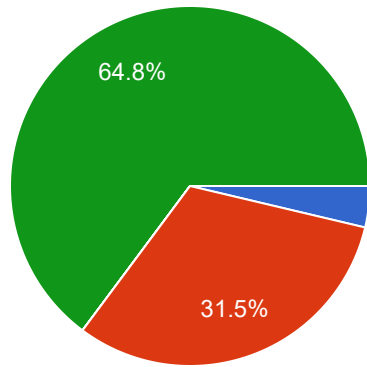
- hundred
- thousand
- zero
- several



Solar system is formed by the process of _____

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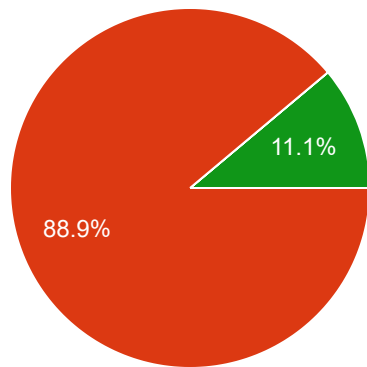


- a) evaporation
- b) condensation
- c) vaporization
- d) both a & c

The nature of graph of velocity (v) against distance (x) in case of Hubble law is _____

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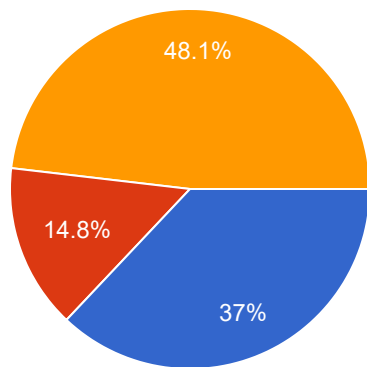


- a) Parabolic curve
- b) Straight line
- c) Square
- d) zig zag

According to Gammow the beginning matter of the universe is called as _____

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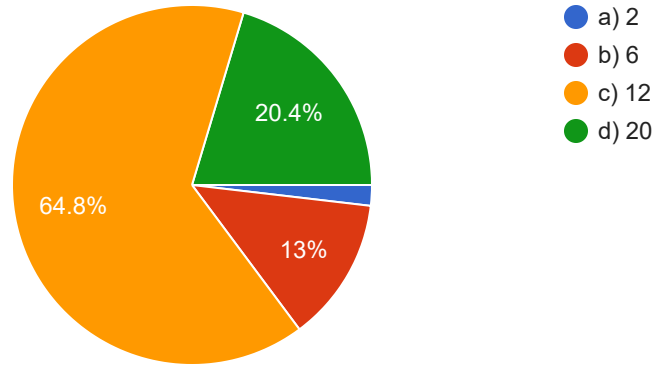
- a) delta
- b) epoch
- c) ylem
- d) theta



The universe reaches to present state after _____ billion years of big-bang.

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54 responses



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