SRI Y N COLLEGE (A), NARSAPUR
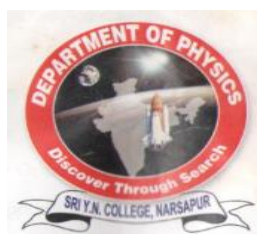
Course-1& Course II: Essentials and Applications of Mathematical, Physical and Chemical Sciences
Semester End Examination & Mid Examinations Model Question paper

2023-2024

DEPARTMENT OF PHYSICS

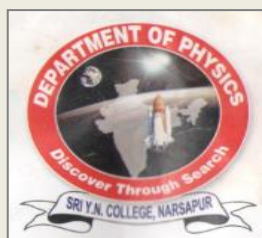# SRI Y.N.COLLEGE (A) NARSAPUR

SRI Y N COLLEGE (A), NARSAPUR

SEMESTER-I

COURSE-1: ESSENTIALS AND APPLICATIONS OF MATHEMATICAL, PHYSICAL AND CHEMICAL SCIENCES

2023-2024

DEPARTMENT OF PHYSICS

SRI Y.N.COLLEGE (A) NARSAPUR

Batch 2023-2027
SRI Y.N.COLLEGE (AUTONOMOUS): NARSAPUR
I B.Sc., Hon's under CBCS w.e.f A.Y. 2023-2024
For I Semester Geography major
Course-1: Essentials and Applications of Mathematical, Physical and Chemical Sciences
Course - 1
SEMESTER-I

QUESTION BANK

UNIT – I: ESSENTIALS OF MATHEMATICS

I. Multiple choice questions

1. The value of i^{108} is   [   ]
   (A) 0   (b) 1   (c) i   (d) $-i$

2. The conjugate of $\frac{1}{3+4i}$ is   [   ]
   (a) $3 + 4i$ (b) $\frac{3-4i}{25}$ (c) $3 - 4i$ (d) None of these

3. Which of the following is not defined?   [   ]
   (a) $\cos 0^0$ (b) $\tan 45^0$ (c) $\sec 90^0$ (d) $\sin 90^0$

4. $\bar{\imath}.\bar{\imath} =$ [   ]
   (a) 0   (b) 1   (c) $\bar{\jmath}$ (d) $\bar{k}$

5. The value of $\bar{\imath}.(\bar{\jmath} \times \overline{k}) + \bar{\jmath}.(\bar{\imath} \times \bar{k}) + \bar{k}.(\bar{\imath} \times \bar{\jmath})$ is   [   ]
   (a) 1   (b) -1   (c) 2   (d) 3

6. $|\bar{\imath} - 2\bar{\jmath} + 3\bar{k}| =$ [   ]
   (a) 14   (b)6   (c) 1   (d) $\sqrt{14}$

7. Statistics means   [   ]
   (a) to collect and tabulate   (b) to analyse
   (c) to conclude   (e) all of the above

8. Best measure of central tendency (average) is   [   ]
   (a) Median   (b) Mode   (c) Mean   (d) None of these

9. Median is _____   [   ]
   (a) Most repeated value   (b) Middle value
   (c) Product value   (d) None

10. Mode is _____   [   ]
    (a) Most repeated value   (b) Middle Value
    (c) Product value   (d) None of these

II. Fill in the blanks

11. The value of $(\sqrt{-25})$ x$(\sqrt{-9})$is _____

12. If $\tan A = \frac{2}{3}$, then the value of $\sin^2 A + \cos^2 A =$ _____

13. $\bar{\imath} \times \bar{\imath} =$ _____

14. The arithmetic mean of 1,2,3,....n is_____

15. If mode of the following data is 7, then the value of k in

2,4,6,7,5,6,10,6,7,2k+1,9,7,13   is_____

III. Matching Questions

16. Reciprocal of $1 - i$ lies in   [   ] (Ans.) First quadrant

17. The value of $\frac{\cot 30^0}{\tan 60^0}$ is   [   ] (Ans.) 0

18. $\cot^2\theta - \frac{1}{\sin^2\theta} =$ [   ] (Ans.) -1

19. $\bar{i} \times \bar{j}$ [   ] (Ans.) $\bar{k}$

Unit-2: ESSENTIALS OF PHYSICS

I. Multiple Choice Questions

1. Which system of units is internationally accepted? [   ]
   (a) CGS system   (b) FPS system   (c) MKS system   (d) SI system

2. What is the SI unit of luminous intensity? [   ]
   (a) Candela   (b) Lux   (c) Lumen   (d) watt

3. Newton's law of motion is not valid when: [   ]
   (a) Mass remains constant   (b) Forces are balanced
   (c) Mass is variable   (d) The velocity of an object is constant

4. The second law of thermodynamics is concerned with [   ]
   (a) Energy conservation   (b) Energy Transfer direction
   (c) Temperature measurement   (d) Heat capacity of solids

5. Which of the following electromagnetic waves has the highest frequency? [   ]
   (a) $\gamma\ rays$ (b) visible light   (c) Infrared rays   (d) Radio waves

6. Which type of wave can propagate through vacuum? [   ]
   (a) Electromagnetic waves   (b) Acoustic waves
   (c) Both acoustic & electromagnetic waves   (d) None of the above.

7. Which type of wave is sound propagated through air [   ]
   (a) Longitudinal Waves   (b) Transverse Waves
   (c) Electromagnetic Waves   (d) Mechanical Waves.

8. Matter waves are [   ]
   (a) Electromagnetic waves   (b) Transverse waves
   (c) Longitudinal waves   (d) Exhibit diffraction

9. Electrons determine the properties and bonding behavior of an atom [   ]
   (a) Nuclear   (b) Chemical
   (c) Physical   (d) Magnetic

10. The de-Broglie wavelength can be measured if it of the order of: [   ]
    (a) The size of the atom   (b) The size of the Nucleus
    (c) The size of the universe   (d) The size of the molecule

II. Fill in the Blanks

11. The First law of thermodynamics is based on the principle of _____

12. Electromagnetic waves in Nature are _____

13. The work done by the magnetic field on a moving charge is _____

14. The Spectrum of Sun is _____

15. What is the SI unit of length _____

III. Matching Questions

16. Which planet is closest to the sun?   [   ] (Ans.) Mercury

17. The galaxy to which our solar system belongs is called[   ] (Ans.) Milky Way

18. Which has the longest wave length?   [   ] (Ans.) Radio rays

19. SI Unit of electric current   [   ] (Ans.) Ampere

20. The mass energy relation is given by   [   ] (Ans.) $E=mc^2$

Unit-3: ESSENTIALS OF CHEMISTRY

I. Multiple Choice questions

1. The science which deals with the study of matter is   [   ]
   (a) Material science   (b) Physics
   (c) Genetics   (d) Chemistry

2. What is the primary function of carbohydrates in living organisms?   [   ]
   (a) Energy storage   (b) Structural support
   (c) Hormone production   (d) Above all

3. Which vitamin is essential for vision, healthy skin, and mucus membranes?   [   ]
   (a) Vitamin C   (b) Vitamin A
   (c)Vitamin D   (d) Vitamin E

4. What does environmental chemistry focus on?   [   ]
   (a) Drug discovery
   (b) Pollution and waste management
   (c) Electronic configuration of elements
   (d) Energy production

5. Which vitamin helps the body absorb calcium for bone health?   [   ]
   (a) Vitamin C   (b) Vitamin A
   (c) Vitamin D   (d) Vitamin K

6. In which field does chemistry play a crucial role in solving crimes?   [   ]
   (a) Medicinal chemistry   (b) Analytical chemistry
   (c)Industrial chemistry   (d) Forensic chemistry

7. Which branch of chemistry involves studying metals and minerals?   [   ]
   (a) Inorganic chemistry   (b) Organic chemistry
   (c) Analytical chemistry   (d) Medicinal chemistry

8. What is the primary function of Vitamin K in the body?   [   ]
   (a) Energy metabolism   (b) Blood clotting
   (c) Cell builder   (d) Shield against infections

9. What is the general molecular formula for carbohydrates?   [   ]
   (a) $(NH_2)n$ (b) $(COOH)n$
   (c) $(CH_2O)n$ (d) $(C_2H_5)n$

10. How atomic size varies from top to bottom in groups of periodic table   [   ]
    (a) Increases   (b) Decreases
    (a) No change   (d) Changes to elliptical

II. Fill in the blanks

11. Medicinal Chemistry plays a crucial role in _____discovery.

12. Carbohydrates serve as a primary source of _____for the body.

13. Saturated fats are typically _____at room temperature.

14. _____Chemistry helps to understand pollution problems.

15. The periodic table provides valuable information about the element's _____

III. Matching Questions

16. Vitamin A   [   ] (Ans.) Important for vision, healthy skin & mucous membranes

17. Vitamin K   [   ] (Ans.) Helps blood clot and prevents excessive bleeding.

18. Vitamin B6   [   ] (Ans.) Essential for nerve function and cell building

19. Vitamin C   [   ] (Ans.) Acts as a shield against illnesses and promotes healing.

20. Vitamin D   [   ] (Ans.) Helps bones and teeth grow strong and aids in calcium

    utilization.

UNIT- IV: ESSENTIALS OF GEOGRAPHY

I. Multiple Choice questions

1. The mantle occupies _____ of the Earth.   [   ]
   (a) 15%   (b) 1%
   (c) 84%   (d) 48%

2. Which among the following is made of solid rocks?   [   ]
   (a) Core   (b) Mantle
   (c) Crust   (d) None of the options

3. In which state is the core of the Earth?   [   ]
   (a) Solid   (c) Gas
   (b) Liquid   (d) Both solid and liquid

4. The uppermost part of the mantle and crust are called the   [   ]
   (a) Hydrosphere   (b) Atmosphere
   (c) Lithosphere   (d) Exosphere

5. Why is the term 'SIAL' used to refer to the crust and lithosphere   [   ]
   (a) Silica (Si) and Aluminium (Al)   (b) Silica (Si) and Alluvial (Al)
   (c) Silicon Oxide (Si) and Aluminium (Al) (d) Silicon Dioxide and Aluminum Oxide

6. Earth's layers are composed of   [   ]
   (a) Crust,Mantle , water   (b) Air , core , water
    (c) Crust , Mantle , Core   (d) None of the above

7. Which of the following is a nonrenewable energy resource   [   ]
   (a) Solar   (b) Methane
   (c) Hydroelectric   (d) Coal

8. From the list given below pick the item that is not a natural resource [   ]
   (a) Soil   (b) Water
   (c) Electricity   (d) Air

9. The most rapidly dwindling natural resource in the world is   [   ]
   (a) Water   (b) Forests
   (c) Wind   (d) Sunlight

10. Which of the following is an example of non-biodegradable waste   [   ]
    (a) Food waste   (b) Plastic
    (c) Paper   (d) Wood

11. Which of the following is not a method of soil conservation   [   ]
    (a) Contour ploughing   (b) Terrace farming
    (c) Crop rotation   (d) Deforestation

12. Resource Conservation Policy introduced by   [   ]
    (a) Giffer Pincat   (b) Zimmer Men
    (c) Jean Brune   (d) M.S.Swaninathan

13. Who was the scientist classified resources scientifically   [   ]
    (a) Zimmer Men   (b) John W Alexander
    (c) Alexander Von Hombolt   (d) W.M. Davis

14. How many essential elements of Remote sensing   [   ]
    (a) Two   (b) Three
    (c) Five   (d) Four

15. IRS is stand by   [   ]
    (a) Indian Remote Sensing   (b) Indian Remote Satellite
    (c) Indian Remote Service   (d) Internal Remote sensor

16. Who is the founder of Remote Sensing   [   ]
    (a) Evelyn Pruitt   (b) Nicéphore Niépce

    (c) Wilbur Wright   (d) Gaspard-Félix Tournacho

17. The system that uses the sun as a source of electromagnetic energy and records the
    naturally radiated and reflected energy from the object is called   [   ]
    (a) Geographical Information System   (b) Global Positioning System
    (c) Passive Remote Sensing   (d) Active Remote Sensing

18. ISRO abbreviation is   [   ]
    (a) Indian Satellite Remote Organization
    (b) Indian Space Research Observation
    (c) Indian Space Research Organization
    (d) Indian Satellite Research Organization

19. Which factors affects the spatial resolution of remote sensing imagery   (   )
    (a) The wavelength of the radiation used
    (b) The altitude of the platform carrying the sensor
    (c) The type of sensor used
    (d) All of the above

20. Which of the following remote sensing platforms is best suited for monitoring ocean
    temperatures?   (   )
    (a) Airborne platforms   (b) Spaceborne platforms
    (c) Ground-based platforms   (d) All of the above

21. Which of the following is the largest delta of the world?   (   )
    (a) Mississippi   (b) Nile
    (c) Ganga   (d) Bolga

22. Which of the river is known as Yellow river   (   )
    (a) Yangtisiquang   (b) Sequang
    (c) Hwang – ho   (d) Yamuna

23. Which of the following is the longest river of the World ?   (   )
    (a) Amazon   (b) Nile
    (c) Kango   (d) Mississippi

24. Water dividing line of Indian rivers passes through –   (   )
    (a) Aravali Range   (b) Satpura Range
    (c) Vindhyachal ranges   (d) Himalayan ranges

25. Which Delta is also known Sundarvan   (   )
    (a) Ganga delta   (b) Kaveri delta
    (c) Narmada delta   (d) Godavari delta

26. Which of the following is glacier is not found in the UP Himalaya   (   )
   (a) Milan   (b) Gangotri
   (c) Kosa   (d) Batura

27. Which of the following is not the volcanic mountain   (   )
   (a) Cotopaxi   (b) Mt.Taal
   (c) Fuziyama   (d) Atlas

28. V-Shaped valley is formed by   (   )
   (a) River   (b) Glacier
   (c) Wind   (d) Ground Water

29. A rapidly moving and often large sea wave generated submarine earthquake is (   )
   (a) Typhoon   (b) Tsunami
   (c) Cyclone   (d) Hurricane

30. Geomorphology is study of   (   )
   (a) Relief feature   (b) Oceans
   (c) Mountains   (d) Plateau

II. Fill in the blanks

31. Remote sensing is a _____ recording of information.

32. _____ radiation is generally used in remote sensing technology.

33. The continental crust is basically made up of a _____

34. The upper mantle and Earth crust together called a _____

35. _____ Platforms are used to record detailed information about the objects features of the earth's surface.

36. Renewable resources are _____

37. Resources that get replenished in nature are called _____

38. _____ is considered the accumulation of different branches of earth science.

39. Physical features are the natural features are called _____

40. _____ is the study of landforms and the processes that shape them.

41. Atlas maps are mainly of_____

42. _____ are the highest mountain ranges of the world.

43. _____ are those land forms they are formed due to the underground water action.

44. The study of weather is known as _____

45. The solar energy that reaches earth is called _____

III. Matching Questions

46. Core   [   ]   Ans.) Innermost layer

47. Clay   [   ]   Ans.) Changes into Slate

48. SiAl   [   ]   Ans.) Silica and Alumina

49. Resource conservation Policy   [   ]   Ans.) Giffer Pincat

50. Renewable resources   [   ]   Ans.) Plants and Water

51. Passive Remote Sensing   [   ]   Ans.) Landsat

52. Active Remote Sensing   [   ]   Ans.) LiDAR

53. Continental Drift Theory   [   ]   Ans.) Wegner

54. Father of Modern Geography   [   ]   Ans.) Humbolt

55. Largest Physiography   [   ]   Ans.) Deccan Plateau

56. Geo synchronous   [   ]   Ans.) METEOSAT

57. Kelvin Scale   [   ]   Ans.) Temperature Measure

58. Bird foot delta   [   ]   Ans.) Mississippi river

59. Sundarbans   [   ]   Ans.) West Bengal

60. Sorrow of China   [   ]   Ans.) Hwang – ho

UNIT-V: ESSENTIALS OF COMPUTER SCIENCE

I. Multiple Choice Questions

1. The brain of any Computer device is   [   ]
   a) CPU   b) ALU
   c) Memory Unit   d) Control Unit

2. Joystick is used for   [   ]
   a) Weather forecast   b) Gaming
   c) Word processing   d) email writing

3. Which is volatile memory   [   ]
   a) ROM   b) EPROM
   c) RAM   d) None of these

4. Which of the following is the valid unit of memory   [   ]
   a) GB   b) MB
   c) TB   d) All

5. Web Pages are saved in which format   [   ]
   a) URL   b) DOC
   c) HTML   d) http://

6. What does Cc in e-mail stands for?   [   ]
   a) Common Copy   b) Carbon Copy
   c) Cost Copy   d) Carbon Cost

7. Malware is short form of?   [   ]
   a) Malicious hardware   b) Malicious Software
   c) Both A and B   d) None of these

8. ISP stands for   [   ]
   a) Internet security protocol   b) Intelligent Service Package
   c) Internet Service provider   d) Intelligent Service Provider

9. Website is a collection of   [   ]
   a) HTML documents   b) Graphic files
   c) Audio and video files   d) All of the above

10. What is the term for unsolicited e-mail?   [   ]
    a) Newsgroup   b) Usenet
    c) Backbone   d) Spam

II. Fill in the Blanks

11. WAN stands for_____

12. The two kinds of Main Memory are_____

13. _____refers to the physical parts of a computer that you can see and touch.

14. A Firewall is _____

15. The Unauthorized intrusion in to a Computer Network is _____

III. Matching Questions

16. Very Large Scale Integration   [   ] (Ans.) Fourth Generation

17. Verifying the identity of user   [   ] (Ans.) Authentication

18. DNS is also called as   [   ] (Ans.) Phone book of Internet

19. MAN   [   ] (Ans.) Metropolitan Area Network

20. Inventor of WWW   [   ] (Ans.) Tim Berners-Lee

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QUESTION BANK- ANSWERS

UNIT – I: ESSENTIALS OF MATHEMATICS

I. Multiple choice questions

1. (b) 1
2. (b) $\frac{3-4i}{25}$
3. (c) $\sec 90^0$
4. (b) 1
5. (d) 3
6. (d) $\sqrt{14}$
7. (d) All of the above
8. (c) Mean
9. (b) Middle Value
10. (a) Most repeated value

II. Fill in the blanks

11. -15
12. 1
13. $\bar{0}$
14. $\frac{n+1}{2}$
15. 3

III. Matching Questions

16. First quadrant
17. 0
18. -1
19. $\bar{k}$

UNIT – II: ESSENTIALS OF PHYSICS

I. Multiple Choice Questions

1. (d) SI system

2. (a) Candela

3. (c) Mass is variable

4. (b) Energy Transfer direction

5. (a) $\gamma\ rays$

6. (a) Electromagnetic waves

7. (a) Longitudinal Waves

8. (d) Exhibit diffraction

9. (b) Chemical

10. (a) The size of the atom

II. Fill in the Blanks

11. Conservation of energy

12. Transverse

13. Always zero

14. Continuous

15. Meter

III. Matching Questions

16. Mercury

17. Milky Way

18. Radio rays

19. Ampere

20. $E=mc^2$

Unit-III: ESSENTIALS OF CHEMISTRY

I. Multiple choice questions

1. (d)   Chemistry
2. (d)   Above all
3. (b)   Vitamin A
4. (b)   Pollution and waste management
5. (c)   Vitamin D
6. (d)   Forensic Chemistry
7. (a)   Inorganic Chemistry
8. (b)   Blood Clotting
9. (c) $(CH_2O)n$
10. (a)   Increases

II. Fill in the blanks

11. Drug
12. Energy
13. Solids
14. Environmental
15. Behaviour

III. Match the following

35. Important for vision, healthy skin & mucous   membranes
36. Helps blood clot and prevents excessive bleeding.
37. Essential for nerve function and cell building
38. Acts as a shield against illnesses and promotes healing.
39. Helps bones and teeth grow strong and aids in calcium utilization.

UNIT- IV: ESSENTIALS OF GEOGRAPHY

I. Multiple choice questions

1. (c)   84%
2. (b)   Mantle
3. (d)   Both solid and liquid
4. (c)   Lithosphere
5. (a)   Silica (Si) and Aluminium (Al)
6. (c)   Crust , Mantle , Core
7. (d)   Coal
8. (c)   Electricity
9. (b)   Forests
10. (b)   Plastics
11. (d)   Deforestation
12. (a)   Giffer pincat
13. (a)   Zimmer Men
14. (b)   Three
15. (a)   Indian Remote Sensing
16. (a)   Evelyn Pruitt
17. (d)   Active Remote sensing
18. (c)   Indian Space Research Organization
19. (d)   All of the above
20. (b)   Spaceborne platforms
21. (c)   Ganga
22. (c)   Hwang – ho
23. (b)   Nile
24. (a)   Aravali Range
25. (a)   Ganga delta
26. (d)   Batura
27. (d)   Atlas
28. (a)   River
29. (b)   Tsunami
30. (a)   Relief feature

II. Fill in the Blanks

31. None contact
32. Electromagnetic radiation
33. Silica and Alumina
34. Lithosphere
35. Ground Bourne
36. Non – exhaustible resources
37. Renewable resources
38. Physical Geography
39. Earth's Surface
40. Geomorphology
41. Small Scale
42. Himalayas
43. Karst land forms
44. Meteorology
45. Insolation

III. Matching Questions

46. (Ans.) Innermost layer
47. (Ans.) Changes into Slate
48. (Ans.) Silica and Alumina
49. (Ans.) Giffer Pincat
50. (Ans.) Plants and Water
51. (Ans.) Landsat
52. (Ans.) LiDAR
53. (Ans.) Wegner
54. (Ans.) Humbolt
55. (Ans.) Deccan Plateau
56. (Ans.) METEOSAT
57. (Ans.) Temperature Measure
58. (Ans.) Mississippi river
59. (Ans.) West Bengal
60. (Ans.) Hwang - ho

UNIT-V: ESSENTIALS OF COMPUTER SCIENCE

I. Multiple Choice Questions:

1. (a)   CPU
2. (b)   Gaming
3. (c)   RAM
4. (d)   All
5. (c)   HTML
6. (b)   Carbon Copy
7. (b)   Malicious Software
8. (c)   Internet Service Provider
9. (d)   All of the above
10. (d)   Spam

II. Fill in the Blanks

11. Wide Area Network
12. RAM and ROM
13. Hardware
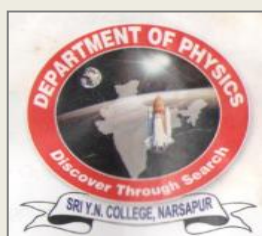14. Network Security Device
15. Hacking

III. Matching Questions

16. Ans) Fourth Generation
17. Ans) Authentication
18. Ans) Phone book of Internet
19. Ans) Metropolitan Area Network
20. Ans) Tim Berners-Lee

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SEMESTER-II

COURSE-2: ADVANCES IN MATHEMATICAL, PHYSICAL AND CHEMICAL SCIENCES

2023-2024

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Course - 2
SEMESTER-I

QUESTION BANK

UNIT – I: ADVANCES IN BASIC MATHEMATICS

I. Multiple Choice Questions

1. The equation of the line which is parallel to x − axis and passing through the point $(3, −4)$ is   [   ]
   (a) $y + 4 = 0$ (b) $y − 4 = 0$
   (c) $x + 4 = 0$ (d) $x − 4 = 0$

2. The equation of a straight line, whole y − intercept is -3 and which is parallel to the line joining the points $(−2,3)$ and $(4, −5)$ [   ]
   (a) $4x − 3y + 9 = 0$ (b) $4x − 3y − 9 = 0$
   (c) $4x + 3y + 9 = 0$ (d) $3x + 4y + 9 = 0$

3. The equation of the line passing through the point $(1,2)$ and perpendicular to the line $x + y + 1 = 0$ is   [   ]
   (a) $y − x + 1 = 0$ (b) $y − x − 1 = 0$
   (c) $y − x + 2 = 0$ (d) $y − x − 2 = 0$

4. Find the value of $\lim_{x \to 0} \frac{\sqrt{1+x}-1}{x}$ [   ]
   (a) $\frac{1}{2}$ (b) $\frac{3}{2}$ (c) $-\frac{1}{2}$ (d) 1

5. Find the value of $\lim_{x \to 2} \frac{x^3 - 2x^2}{x^2 - 5x + 6}$ [   ]
   (a) 0   (b) 4   (c) - 4   (d) None of these

6. $\frac{d}{dx} \log(\sec x + \tan x) =$ [   ]
   (a) $\frac{1}{\sec x + \tan x}$ (b)$\sec x$ (c) $\tan x$ (d) $\sec x + \tan x$

7. $\frac{d}{dx}\left(e^{\sin^{-1} x + \cos^{-1} x}\right) =$ [   ]
   (a)$\frac{2}{\sqrt{1-x^2}}$ (b) 0   (c)$\frac{1}{\sqrt{1-x^2}}$ (d)$e^{\sin^{-1} x + \cos^{-1} x}$

8. $\int \frac{f'(x)}{f(x)} dx =$ [   ]
   (a) $\log|f(x)| + c$ (b) $|f(x)| + c$
   (c) $\log|f(x)|^2 + c$ (d) None of these

9. $\int \log x \, dx =$ [   ]
   (a) $x \log x − x + c$ (b) $x\log x + x + c$
   (c) $\frac{1}{x} + c$ (d) $\frac{1}{2}(\log x)^2 + c$

10. The matrix $P = \begin{bmatrix} 0 & 0 & 4 \\ 0 & 4 & 0 \\ 4 & 0 & 0 \end{bmatrix}$ is a [   ]

   (a) Square matrix   (b) Diagonal matrix

   (c) Unit matrix   (d) None of these

II. Fill in the Blanks

11. The distance between the points (2,3,5) and (4,3,1) is_____

12. $\lim_{x \to 3+} \frac{x}{|x|} = $_____

13. $\lim_{x \to 0} \frac{|\sin x|}{x} = $_____

14. If $x = at^2, y = 2at$ then $\frac{dy}{dx} = $_____

15. The value of determinant $\begin{vmatrix} 1 & 2 & 4 \\ -1 & 3 & 0 \\ 4 & 1 & 0 \end{vmatrix}$ is_____

III. Matching Questions

16. The point slope form of a line is   [   ] (Ans.) $y - y_1 = m(x - x_1)$

17. Normal form of a line is   [   ] (Ans.) $x \cos a + y \sin a = p$

18. $\lim_{x \to 0} \frac{\sin x}{x}$ [   ] (Ans.) 1

19. $\lim_{x \to 0} \frac{a^x - 1}{x}$ [   ] (Ans.) $\log a$

20. $\int e^x \{f(x) + f'(x)\} dx$ [   ] (Ans.) $e^x f(x) + c$

Unit-2: ADVANCES IN PHYSICS

I. Multiple Choice Questions

1. Which energy source contributes the most to the total primary energy production in India ?   [   ]
    (a) Oil   (b) Natural gas   (c) Coal   (d) Nuclear   (e) Hydro-power

2. Which energy conversion process has the high efficiency for converting thermal energy   [   ]
    (a) Burning fossil fuels   (b) Photovoltaic (PV) cells
    (c) Fuel Cells   (d) Wind turbines

3. What effect limits the energies at which electron-hole pairs are present in quantum dots?   [   ]
    (a) Quantum conferment effect   (b) Band gap effect
    (c) Coulomb force effect   (d) Photoluminescence effect

4. Which of the following materials are commonly used to prepare quantum dots?   [   ]
    (a) Noble metals like gold and silver   (b) Organic polymers
    (c) Heavy metals like cadmium and lead (d) Insulating materials like glass

5. In quantum computing, what fundamental units are being investigated as prospective candidates for quantum dots?   [   ]
    (a) Electrons   (b) Protons   (c) Quarks   (d) Qubits

6. In which field of medicine is nanotechnology most commonly used to create novel technologies and improve diagnostics and treatments?   [   ]
    (a) Neurology   (b) Oncology
    (c) Cardiology   (d) Ophthalmology

7. What is the most well known shape memory alloy (SMA) composed of roughly 50% Nickel and 50% titanium?   [   ]
    (a) Nitinol   (b) Flexinol   (c) Niti Alloy   (d) Super-elastic Niti wire

8. What is the primary application of shape memory alloy in the medical field?   [   ]
    (a) Building adaptable robotic systems
    (b) Making self-fitting clothing
    (c) Creating stents and surgical instruments
    (d) Designing smart textiles

9. What property of Nitinol allows it to regain its original shape after going through significant deformations?   [   ]
    (a) Super elasticity   (b) Thermo chromism
    (c) Ferromagnetism   (d) Fluorescence

10. Which field of engineering can benefit from the use of shape memory materials to create self-repairing structures and shape-changing parts?   [   ]
    (a) Bio medical engineering   (b) Mechanical engineering
    (c) Civil engineering   (d) Robotics engineering

II. Fill in the Blanks

11. Nano materials are _____ types?

12. _____ principle is used by solar cells to produce electricity.

13. When quantum dots are illuminated using UV light _____ get sufficient energy to break free from their atoms.

14. _____ difference produce a glow that more red quantum dots.

15. Displays using quantum dots have the benefit of consuming _____ power than other displays.

III. Matching Questions

16. IGRT stands for   [   ] (Ans.)Image-Guided Radiation Treatment

17. BB84 stands for   [   ] (Ans.) Bennelt – Brasard 1984

18. Types of Nano materials   [   ] (Ans.) Four

19. The security of the key distributed   [   ] (Ans.) Quantum Mechanics
    is based on the principle is

20. Which energy source has the   [   ] (Ans.) Oil
    highest percentage of global
    energy consumption

Unit-3: ADVANCES IN CHEMISTRY

I. Multiple Choice Questions

1. Which phase involves submitting a New Drug Application (NDA) for regulatory approval?   [   ]
   (a) Registry phase   (b)Clinical development
   (c) Lead optimization   (d) Discovery phase

2. What does ADME stand for in the drug development process?   [   ]
   (a) Analytical Development and Manufacturing Evaluation
   (b) Advanced Drug Modeling and Evaluation
   (c) Affinity, Dosage, Monitoring, Evaluation
   (d) Absorption, Distribution, Metabolism, Excretion

3. What is the primary focus of Structure-Based Drug Design (SBDD)?   [   ]
   (a) Determining target protein structures   (b)Analyzing ligand structures
   (c) Identifying potential targets   (d) Synthesizing lead compounds

4. In drug discovery process, which phase involves evaluating ADME and toxicity profiles of lead compounds?   [   ]
   (a) Discovery phase   (b)Development phase
   (c) Registry phase   (d) Experimental testing

5. Chemical biology is valuable for studying disease progression, monitoring treatment responses, and gaining insights into cellular and molecular processes. This statement primarily highlights it s application in: [   ]
   (a) Drug discovery   (b) Disease research
   (c) Environmental monitoring   (d) Biotechnology

6. In biotechnology, chemical biology is used for creating: [   ]
   (a) Engineered organisms   (b) Drug targets
   (c) Biosensors   (d) Chemical probes

7. What is the consequence of habitat destruction caused by chemical pollutants? [   ]
   (a) Increased biodiversity   (b) Enhanced ecological balance
   (c) Habitat loss   (d) Soil fertility improvement

8. Which respiratory issue can be caused or exacerbated by air pollutants?   [   ]
   (a) Diabetes   (b) Asthma
   (c)Arthritis   (d) Migraines

9. Chemical pollutants cause neurological effects are   [   ]
   (a) Carbon dioxide   (b) Oxides of sulphur
   (c) Lead and Mercury   (d) Oxides of nitrogen

10. The excessive plant nutrient input to any water body leads to rapid growth of algae is called   [   ]
    (a) Water pollution   (b) Eutrophication
    (c) Acid rain   (d) Habitat destruction

II. Fill in the Blanks

11. Nano sensors can detect contaminants and pathogens in food products, contributing to ensuring _____

12. Imatinib is used to treat certain types of _____

13. Titanium dioxide is a widely used photocatalyst for_____

14. The role of CADD in drug discovery primarily lies in the _____phase, reducing time and cost.

15. _____enables the systematic identification of novel potential uses for drugs already approved for other indications.

III. Matching Questions

16. Hit validation   [   ] (Ans.) Select top-ranking ligands for validation

17. Food safety   [   ] (Ans.) Contaminant detection

18. Biotechnology   [   ] (Ans.) Designing and constructing novel biological systems

19. Chemical genomics [   ] (Ans.) Large scale screening of small molecules

20. Eutrophication   [   ] (Ans.) Excessive growth of algae

UNIT- IV: ADVANCED APPLICATIONS GEOGRAPHY

I. Multiple Choice Questions

1. The site of human settlement refers to   [   ]
   (a) Location of human settlement in any area
   (b) Relation between environment and human settlement
   (c) Situation of human settlement near urban area
   (d) The physical and cultural characteristics and the attribute of the place

2. What is the big segment for defining urban and rural area   [   ]
   (a) Size of population   (b) Activity
   (c) Settlement pattern   (d) Income

3. The concept of Rural – Urban fringe was propounded by   [   ]
   (a) Pahl   (b) Homar Hoyt
   (c) Pattrick Geddas   (d) R.J.Pryor

4. Rural house is an index of the   [   ]
   (a) Modern Architectural design   (b) Fashion and style
   (c) Environment   (d) Locally available materials

5. Eskimos are the primitive people living in   [   ]
   (a) Western Europe   (b) North America
   (c) North Asia   (d) Central Africa

6. The winter snow house of Eskimos are called   [   ]
   (a) Kayak   (b) Yurt
   (c) Igloo   (d) Toupic

7. To which species is the Gond tribe related   [   ]
   (a) Dravidian   (b) Proto – Astroloid
   (c) Nordic   (d) Negrito

8. Who among the following is the elder god of Gond tribe   [   ]
   (a) Marang Buru   (b) Gurudev
   (c) Thakur Dev   (d) Dharmesh

9. Gujjar a tribal group of   [   ]
   (a) Nomadic   (b) Semi – Nomadic
   (c) Uncultured   (d) Matrilineal

10. In which state is Gujjar tribe   [   ]
    (a) Himachal Pradesh   (b) Punjab
    (c) Jammu and Kashmir   (d) Haryana

11. Fishing, Mining, Farming and Forestry are examples of what economic [   ]
    activity
    (a) Primary   (b) Secondary
    (c) Tertiary   (d) Quaternary

12. When we produce a good by exploiting natural resources   [   ]
    (a) Primary sector   (b) Service sector
    (c) Public sector   (d) Tertiary sector

13. Name one functioning activity of the Tertiary sector. [   ]
    (a) This sector gradually became associated with different kinds of industries.
    (b) Activities in which natural products are changed into other forms
        through ways of manufacturing.
    (c) Produce a good by exploiting natural resources.
    (d) Goods that are produced would need to be transported by trucks
        or trains and then sold in wholesale and retail shops.

14. The task of measuring GDP is undertaken by the [   ]
    (a) State government   (b) Provincial government
    (c) All of the options are correct   (d) Central government

15. What is the main driver of international migration? [   ]
(a) Good conditions in home countries   (b) Poor conditions in home countries
(c) Good conditions in receiving countries (d) Poor conditions in receiving countries

16. which state of India, receives maximum migrants [   ]
    (a) Maharashtra   (b) Punjab
    (c) Haryana   (d) Gujarat

17. what are the causes of Migration [   ]
    (a) Poverty   (b) Education
    (c) Health   (d) All

18. Which kind of data are to be used by GIS. [   ]
    (a) Spatial   (b) Binary
    (c) Numeric   (d) Complex

19. GIS stands for - [   ]
    (a) Global Information System   (b) Global information Scheme
    (c) Geographic Information system   (d) Geographic Information scheme

20. Which is known as spatial database [   ]
    (a) Current databases   (b) Mono databases
    (c) Geo data bases   (d) Decimal values

21. The term Geography derived from [   ]
    (a) Combination of two Latin words   (b) Combination of two American words

    (c) Combination of two Greek words   (d) Combination of two Spanish words

22. The term Geography was firstly used by [   ]
    (a) Freeman and Raup   (b) Hipparcus
    (c) Posidonious   (d) Eratasthonese

23. Who was the first geographer that prepare a world map to scale [   ]
    (a) Anaximander   (b) Thales
    (c) Herodotus   (d) None of these

24. Who was the scientist classified resources scientifically [   ]
    (a) Zimmer Men   (b) Jean Brune
    (c) Gifer Pincat   (d) John.W.Alexander

25. Who is the Missile man of India   [   ]
    (a) Atal Bihar Vaajpei   (b) APJ Abdul Kalam
    (c) Narendra Modi   (d) Satish Dhawan

26. NRSA means   [   ]
    (a) National Remote Sensing Agency   (b) National Remote Sensing Authority
    (c) National Remote Satellite Agency   (d) National Remote Satellite Authority

27. Where is located Satish Dhawan Space Center   [   ]
    (a) Visakhapatnam   (b) Sriharikota
    (c) Kakinada   (d) Amaravati

28. Where is located NRSA   [   ]
    (a) Hyderabad   (b) Bengaluru
    (c) Mumbai   (d) Chennai

29. The maps in which lines of equal values shown are called   [   ]
    (a) Choropleth Maps   (b). Bonitative Maps
    (c) Isopleth Maps   (d) Dot Maps

30. Topographical maps in India, are prepared by   [   ]
    (a) Land Revenue Dept.   (b) Meteorological Dept.
    (c) Geological Survey of India   (d) Survey of India

II. Fill in the Blanks

31. Urban settlements are _____ than rural settlements

32. Rural areas act as _____factor while urban areas are the _____ factor.

33. _____towns or cities are socially and economically independent, either completely or Partially.

34. The dogs which help the Eskimos are called _____

35. Greenland lies in the _____

36. _____ state of India has highest urbanization.

37. Regional planning is started in India in _____

38. The first known use of the term GIS was by _____

39. The two very important and common input devices are _____

40. _____ data represent features as discrete Points, lines and Polygons.

41. _____data represent the landscape as a matrix of square cells.

42. Migration from _____ to _____ areas is common in developing countries.

43. _____ When a person leaves his or her own country and moves to another.

44. _____When a person arrives in a new country after leaving his or her own country.

45. Gujjar Bakarwal usually migrates between _____ ranges and _____ areas.

III. Matching Questions

46. Principle of Human Geography   [   ] (Ans.) Ellsworth Huntington

47. Agricultural location theory   [   ] (Ans.) Von Thunen

48. Daily movement   [   ] (Ans.) Diurnal migration

49. Export of goods   [   ] (Ans.) Quaternary activities

50. Bio – gas   [   ] (Ans.) Renewable resource

51. Overlaying   [   ] (Ans.) Vector or Raster

52. Lines   [   ] (Ans.) Linear features

53. Synchronization   [   ] (Ans.) DBMS

54. Eskimos   [   ] (Ans.) Igloo

55. Polar caps   [   ] (Ans.) Sparsely populated

56. India   [   ] (Ans.) Largest tea producing

57. China   [   ] (Ans.) Biggest rice producing

58. South-East Asia   [   ] (Ans.) Paddy cultivation region

59. Uttarpradesh   [   ] (Ans.) Sugar bowl of India

60. Bushmens   [   ] (Ans.) Kalahari desert

UNIT-V: ADVANCED APPLICATIONS OF COMPUTER SCIENCE

I. Multiple Choice Questions

1. Which of the following is not a binary number?   [   ]
   (a) 1001   (b) 101
   (c) 1002   (d) 110

2. The Base of Binary Number System is   [   ]
   (a) 3   (b) 4
   (c) 2   (d) 0

3. The Binary numbers 0 and 1 are also called as   [   ]
   (a) Bytes   (b) Bits
   (c) kilobytes   (d) Decimal

4. Decimal equivalent to $(1111)_2$ is   [   ]
   (a) 11   (b) 10
   (c) 15   (d) 13

5. Telegraph Signals are examples of   [   ]
   (a) Digital Signals   (b) Analog signals
   (c) Impulse signals   (d) pulse train

6. Modem is used mostly for?   [   ]
   (a) Mostly for file system   (b) A Modem empty memory modules
   (c) Connecting to Internet   (d) None of above

7. LAN card is also known as?   [   ]
   (a) Modem   (b) NIC
   (c) Hub   (d) Switch

8. The location of resource on the internet is given by its?   [   ]
   (a) Protocol   (b) URL
   (c) E-mail address   (d) ICQ

9. Which transmission media has the highest transmission speed
   in a network?   [   ]
   (a) coaxial cable   (b) Twisted pair cable
   (c) Optical fiber   (d) Electrical cable

10. Which of the following devices modulates digital signals into analog
    signals that can be sent over traditional telephone lines?   [   ]
    (a) Router   (b) Gateway
    (c) Switch   (d) Modem

II. Fill in the Blanks

11. The base of _____system is 10.

12. Computer understands only _____ code.

13. _____refers to the number of cycles completed by the wave.

14. _____network devices stores IP addresses.

15. _____connects to networks.

16. WAN stands for_____

17. A Network of Networks is known as_____

III. Matching Questions

18. A signal is   [   ] (Ans.) Electromagnetic waves

19. DSL modem   [   ] (Ans.) Broadband based

20. Guided media are   [   ] (Ans.) Wired Media

21. Optical fibre   [   ] (Ans.) Used for long distance communication

22. Band width of Microwaves   [   ] (Ans.) 1 Mbps -10 Mbps

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Course - 2
SEMESTER-I

QUESTION BANK- ANSWERS

UNIT – I: Advances in Basic Mathematics

I. Multiple choice questions

1. (a) $y + 4 = 0$
2. (c) $4x + 3y + 9 = 0$
3. (b) $y - x - 1 = 0$
4. (a) $\frac{1}{2}$
5. (c) - 4
6. (b) $\sec x$
7. (b) 0
8. (a) $\log|f(x)| + c$
9. (a) $x \log x - x + c$
10. (a) Square matrix

II. Fill in the blanks

11. $2\sqrt{5}$
12. 1
13. Does not exist
14. $\frac{1}{t}$
15. -52

III. Matching Questions

16. $y - y_1 = m(x - x_1)$
17. $x \cos \alpha + y \sin \alpha = p$
18. 1
19. $\log a$
20. $e^x f(x) + c$

UNIT – II: ADVANCES IN PHYSICS

I. Multiple Choice Questions

1. (c) Coal
2. (c) Fuel Cells
3. (a) Quantum conferment effect
4. (c) Heavy metals like cadmium and lead
5. (d) Qubits
6. (b) Oncology
7. (a) Nitinol
8. (c) Creating stents and surgical instruments
9. (a) Super elasticity
10. (d) Robotics engineering

II. Fill in the Blanks

11. Four
12. Photovoltaics
13. Electrons
14. Lower energy
15. Less

III. Matching Questions

16. Image-Guided Radiation Treatment
17. Bennelt – Brasard 1984
18. Four
19. Quantum Mechanics
20. Oil

Unit-III: ADVANCES IN CHEMISTRY

I. Multiple Choice Questions

1. (a)   Registry phase

2. (d)   Absorption, Distribution, Metabolism, Excretion

3. (a)   Determining target protein structures

4. (b)   Development phase

5. (b)   Disease research

6. (a)   Engineered organism

7. (c)   Habitat loss

8. (b)   Asthma

9. (c)   Lead and Mercury

10. (b)   Eurtophication

II. Fill in the blanks

11. Food safety

12. Leukemia

13. Dye removal

14. Discovery

15. CADD

III. Matching Questions

16. Select top-ranking ligands for validation

17. Contaminant detection

18. Designing and constructing novel biological systems

19. Large scale screening of small molecules

20. Excessive growth of algae

UNIT- IV: ADVANCED APPLICATIONS OF GEOGRAPHY

I. Multiple Choice Questions

1. (d)   The Physical and Cultural Characteristics and the attribute of the place
2. (b)   Activity
3. (d)   R.J.Pryor
4. (c)   Environment
5. (b)   North Asia
6. (c)   Igloo
7. (a)   Dravidian
8. (b)   Gurudev
9. (a)   Nomadic
10. (a)   Himachal Pradesh
11. (a)   Primary
12. (a)   Primary sector
13. (d)   Goods that are produced would need to be transported by trucks or trains and then sold in wholesale and retail shops.
14. (d)   Central government
15. (b)   Poor Conditions in home countries
16. (a)   Maharashtra
17. (d)   All
18. (a)   Spatial
19. (c)   Geographic Information system
20. (b)   Mono databases
21. (c)   Combination of two Greek words
22. (d)   Eratasthonese
23. (a)   Anaximander
24. (a)   Zimmer Men
25. (c)   APJ Abdul Kalam
26. (a)   National Remote Sensing Agency
27. (b)   Sriharikota
28. (a)   Hyderabad
29. (c)   Isopleth Maps
30. (d)   Survey of India

II. Fill in the blanks

31. Larger
32. Push, Pull
33. Satellite
34. Huskies
35. Frigid Zone
36. Maharastra
37. 1961
38. Roger Tamilson
39. Keyboard, Mouse
40. Vector
41. Raster
42. Cold, Ward
43. Emigration
44. Immigration
45. Shivalik, Kashmir

III. Matching Questions

46. (Ans.) Ellsworth Huntington
47. (Ans.) Von Thunen
48. (Ans.) Diurnal migration
49. (Ans.) Quaternary activities
50. (Ans.) Renewable resource
51. (Ans.) Vector or Raster
52. (Ans.) Linear features
53. (Ans.) DBMS
54. (Ans.) Igloo
55. (Ans.) Sparsely populated
56. (Ans.) Largest tea producing
57. (Ans.) Biggest rice producing
58. (Ans.) Paddy cultivation region
59. (Ans.) Sugar bowl of India
60. (Ans.) Kalahari desert

UNIT-V: ADVANCED APPLICATIONS OF COMPUTER SCIENCE

I. Multiple Choice Questions

1. (c)   1002
2. (c)   2
3. (b)   BITS
4. (c)   15
5. (a)   Digital signal
6. (c)   connecting to internet
7. (b)   NIC
8. (b)   URL
9. (c)   optical fiber
10. (d)   Modem

II. Fill in the Blanks

11. Decimal
12. Binary
13. Frequency
14. Switch
15. Gate way
16. Wide Area Network
17. Internet

III. Matching Questions

18. Electromagnetic waves
19. Broadband based
20. Wired Media
21. Used for long distance communication
22. 1 Mbps-10 Mbps

Course-1: Essentials and Applications of Mathematical, Physical and Chemical Sciences
Semester End Examination Model Question paper
Course - 1
SEMESTER-I

Time: 3 Hours   Max.Marks: 60 M

SECTION-A

I. Answer All the Multiple Choice Questions. Each one carries one mark.   40x1=40 M

Unit-1: Q.No.1 to Q.No.5

Unit-II: Q.No.6 to Q.No.10

Unit-III: Q.No.11 to Q.No.15

Unit-IV: Q.No.16 to Q.No.35

Unit-V: Q.No.36 to Q.No.40

SECTION-B

II. Answer all fill in the Blanks questions. Each one carries one mark.   10x1=10 M

Unit-1: Q.No.41

Unit-II: Q.No.42

Unit-III: Q.No.43

Unit-IV: Q.No.44 to Q.No.49

Unit-V: Q.No.50

SECTION –C

III. Answer all the Match questions. Each one carries one mark.   10x1=10 M

Unit-1: Q.No.51

Unit-II: Q.No.52

Unit-III: Q.No.53

Unit-IV: Q.No.54 to Q.No.59

Unit-V: Q.No.60

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Semester End Examination Model Question paper
Course-2
SEMESTER-I

Time: 3 Hours   Max.Marks: 60 M

SECTION-A

I. Answer All the Multiple Choice Questions. Each one carries one mark.   40x1=40 M

Unit-1: Q.No.1 to Q.No.5

Unit-II: Q.No.6 to Q.No.10

Unit-III: Q.No.11 to Q.No.15

Unit-IV: Q.No.16 to Q.No.35

Unit-V: Q.No.36 to Q.No.40

SECTION-B

II. Answer all fill in the Blanks questions. Each one carries one mark.   10x1=10 M

Unit-1: Q.No.41

Unit-II: Q.No.42

Unit-III: Q.No.43

Unit-IV: Q.No.44 to Q.No.49

Unit-V: Q.No.50

SECTION –C

III. Answer all the Match questions. Each one carries one mark.   10x1=10 M

Unit-1: Q.No.51

Unit-II: Q.No.52

Unit-III: Q.No.53

Unit-IV: Q.No.54 to Q.No.59

Unit-V: Q.No.60

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Internal Assessment Examination Model Question Paper
Course - 1
SEMESTER-I

Time: 1.30 Hours   **Max.Marks: 28 M**

SECTION-A

I. Answer All the Multiple Choice Questions. Each one carries one mark.   20x1=20 M

Unit-1: Q.No.1 and Q.No.2

Unit-II: Q.No.3 and Q.No.4

Unit-III: Q.No.5 and Q.No.6

Unit-IV: Q.No.7 to Q.No.18

Unit-V: Q.No.19 and Q.No.20

SECTION-B

II. Answer all fill in the Blanks questions. Each one carries one mark.   4x1=4 M

Unit-II: Q.No.21

Unit-III: Q.No.22

Unit-IV: Q.No.23

Unit-V: Q.No.24

SECTION –C

III. Answer all the Match questions. Each one carries one mark.   4x1=4 M

Unit-II: Q.No.25

Unit-III: Q.No.26

Unit-IV: Q.No.27

Unit-V: Q.No.28

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Course-2: Advances of Mathematical, Physical and Chemical Sciences
Internal Assessment Examination Model Question Paper
Course - 2
SEMESTER-I

Time: 1.30 Hours   **Max.Marks: 28 M**

SECTION-A

I. Answer All the Multiple Choice Questions. Each one carries one mark.   20x1=20 M

Unit-1: Q.No.1 and Q.No.2

Unit-II: Q.No.3 and Q.No.4

Unit-III: Q.No.5 and Q.No.6

Unit-IV: Q.No.7 to Q.No.18

Unit-V: Q.No.19 and Q.No.20

SECTION-B

II. Answer all fill in the Blanks questions. Each one carries one mark.   4x1=4 M

Unit-II: Q.No.21

Unit-III: Q.No.22

Unit-IV: Q.No.23

Unit-V: Q.No.24

SECTION –C

III. Answer all the Match questions. Each one carries one mark.   4x1=4 M

Unit-II: Q.No.25

Unit-III: Q.No.26

Unit-IV: Q.No.27

Unit-V: Q.No.28