



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Regd. By Govt. of T.S& Affiliated to JNTUH, Hyderabad).

NAAC "B++" Accredited Institute

Gunthapally (V), Abdullapurmet(M), RR Dist, Near Ramoji Film City, Hyderabad -501512.

www.aietg.ac.in email: principal.avanthi@gmail.com

5.1.1: Number of students benefitted by scholarships and **Freeships provided by the institution** Government and Non-Government bodies, industries, individuals, philanthropists during the **Academic year 2022-2023**

INDEX

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5	Freeship students with sanctioned Amount	205	Rs.43,58,500	38-44
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7	Merit scholarship students list with amount	32	Rs.1,28,000.	67-69.
Total Students Count :		712	Rs.1,44,45,000	

PRINCIPAL

Avanathi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl), R.R. Dist.



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09-03-2018

AVANTHI FREESHIP & MERIT SCHOLARSHIP POLICY

OBJECT

The goal of the scheme is to offer financial assistance to scheduled college students studying in Avanti Institute of engineering and technology to finish their education.

SCOPE

These ships are available for the students and are awarded based on evaluation of test result which is organized by Avanthi educational society. This is relevant to all the students who are presently beneficiaries of the scheme as well as fresh admissions. Merit scholarship scheme is to help meritorious students to finish their B. Tech without monetary burden. Our institution committed to provide freeships to poor and economically backward students. It is applicable to the students who do not have parents or either father or mother has lost their lives they could avail the opportunity. We also offer freeships whose parental annual income less than one lakh. We ensure that this financial support will help the students to reach their goals

STUDENT FREESHIP FRAMEWORK

At Avanthi Institute of Engineering & Technology, we comply with a Unified Student Freeship Framework to ensure that the deserving candidates get the specified financial assistance. The framework is approved under the following conditions:

1. Admissions via freeship could be offered on a first-come, first-served foundation.
2. Admissions through freeships are limited up to 30% of the approved programme intake.
3. Students those who secure University ranks shall be honored with cash prize and merit certificate
4. Students topped in their subjects/branch of engineering shall be honored with cash prize and merit certificate.
5. The Students from rural background and economically poor shall be supported to pursue engineering course by providing tuition fee concessions
6. The employees children of the institution shall be considered for financial assistance.

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7. Financial assistance shall be provided to the needy students to take up quality project.
8. Financial assistance shall be provided to the students those are eligible for placements to attend training programs.
9. The freeships offered through AF is applicable for the First Year only. The same scholarship will be continued in the subsequent years of study based on the student performance.
10. After first year, and for the consequent years, the student must attain the attendance percentage >75 in previous academic year and maximum of 3 backlogs only considered to avail free ships further, and they must clear all subjects and should not have more than two backlogs in the previous academic year.
11. Apart from these, special requests for financial support shall be considered with Principal's/Management recommendations on valid reasons.

STUDENT MERIT SCHOLARSHIP FRAMEWORK

The merit scholarship will be provided for all First and Second TOPPERS of the students year wise and branch wise.

1. For 1st TOPPER awarded ----- 5000 /- Rs
2. For 2nd TOPPER awarded----- 3000/- Rs

The Avanathi Freeship Internal Policy is adapted on this day the 9th of March 2018 at Avanathi Institute of Engineering and Technology, Gunthapally(Vil), Abdullapurmet (Mdl), RR Reddy 501512. According to the Merit Scholarship policy those who are academic year wise toppers the Avanathi Educational Society give merit Scholarship awards to academic toppers on Anniversary day.


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2022-23 MODEL FREESHIP QUESTION PAPER QUESTION PAPER NAME: ENGINEERING

Total Marks:100

Duration:180 Min

NAME OF THE STUDENT: _____ FREESHIP NO _____

1)Solution of differential equation $x.dy - y.dx = Q$ represents:

- A. a rectangular hyperbola
- B. parabola whose vertex is at the origin
- C. straight line passing through the origin
- D. a circle whose centre is at the origin

2)What is the differential equation of the family of circles touching the y-axis at the origin?

- A. $2xyy' + x^2 = y^2$
- B. $2xyy'' + x' = y^2$
- C. $2xyy' - x^2 = y^2$
- D. $xyy' + x^2 = y^2$

3)The number of arbitrary constants in the particular solution of a differential equation of third order is:

- a. 3
- b. 2
- c. 1
- d. 0

4)Find the degree of the differential equation: $(1 + \frac{d^2y}{dx^2})^3 = (\frac{d^3y}{dx^3})^2$

- A. 0
- B. 1
- C. 2
- D. 3

5)If $\int 2^x dx = f(x) + C$, then $f(x)$ is

- a. 2^x
- b. $2^x \log_e 2$
- c. $2^x / \log_e 2$
- d. $2^{x+1} / x+1$

6) $\int (x^2 + 3)dx$ equals

- a. $24/3$
- b. $25/3$
- c. $26/3$
- d. None of the above..

7)The area of a triangle with vertices $(-3, 0)$, $(3, 0)$ and $(0, k)$ is 9 sq. units. The value of k will be

- (a) 9
- (b) 3
- (c) -9
- (d) 6

8)If $x \sin(a+y) = \sin y$, then dy/dx is equal to

- a. $[\sin^2(a+y)]/\sin a$
- b. $\sin a / [\sin^2(a+y)]$
- c. $[\sin(a+y)]/\sin a$
- d. $\sin a / [\sin(a+y)]$

9)The function $f(x) = [\ln(1+ax) - \ln(1-bx)]/x$, not defined at $x=0$. The value should be assigned to f at $x=0$, so that it is continuous at $x=0$, is

- a.a+b
- b.a-b
- c. b-a
- d. $\ln a + \ln b$

10)If $y = ax^2 + b$, then dy/dx at $x=2$ is equal to

- a. 2a
- b. 3a
- c. 4a
- d. None of these

11)The value of c in Rolle's theorem for the function, $f(x) = \sin 2x$ in $[0, \pi/2]$ is

- a. $\pi/4$
- b. $\pi/6$
- c. $\pi/2$
- d. $\pi/3$

12)If $x = t^2$, $y = t^3$, then $d^2y/dx^2 =$

- a. $3/2$
- b. $3/4t$
- c. $3/2t$
- d. $3t/2$

13). If A is a square matrix of order 3 and $|A| = 5$, then the value of $|2A'|$ is

- (a) -10
- (b) 10
- (c) -40
- (d) 40

14)If $[2\frac{d}{dx} + \frac{d^2}{dx^2} - 2\frac{d}{dx} - 5\frac{d^2}{dx^2} + 4\frac{d}{dx} + 3\frac{d^2}{dx^2}] = [4 - 31124]$, then the value of $p + q - r + 2s$ is

- (a) 8
- (b) 10
- (c) 4
- (d) -8

[Signature]

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15)-8If A and B are two matrices of the order $3 \times m$ and $3 \times n$, respectively, and $m = n$, then the order of matrix $(5A - 2B)$ is

- (a) $m \times 3$ (c) $m \times n$
 (b) 3×3 (d) $3 \times n$

16)The value of the expression $\sin [\cot^{-1} (\cos (\tan^{-1} 1))]$ is

- (a) 0 (c) $1/\sqrt{3}$
 (b) 1 (d) $\sqrt{(2/3)}$

17)Which of the following is the principal value branch of $\cos^{-1} x$?

- (a) $[-\pi/2, \pi/2]$ (c) $[0, \pi]$
 (b) $(0, \pi)$ (d) $(0, \pi) - \{\pi/2\}$

18)If $\sin^{-1} x + \sin^{-1} y = \pi/2$, then value of $\cos^{-1} x + \cos^{-1} y$ is

- (a) $\pi/2$ (c) 0
 (b) π (d) $2\pi/3$

Therefore, $\cos^{-1} x + \cos^{-1} y = \pi/2$.

19)The domain of $\sin^{-1}(2x)$ is

- (a) $[0, 1]$ (c) $[-1/2, 1/2]$
 (b) $[-1, 1]$ (d) $[-2, 2]$

20) The maximum number of equivalence relations on the set $A = \{1, 2, 3\}$ are

- (a) 1 (c) 3
 (b) 2 (d) 5

21)If set A contains 5 elements and the set B contains 6 elements, then the number of one-one and onto mappings from A to B is

- (a) 720 (c) 0
 (b) 120 (d) none of these

22)Events A and B are said to be mutually exclusive if:

- A. $P(A \cup B) = P(A) + P(B)$ C. $P(A \cup B) = 0$
 B. $P(A \cap B) = P(A) \times P(B)$ D. None of these

23)What is the probability of getting the number 6 at least once in a regular die if it can roll it 6 times?

- A. $1 - (5/6)^6$ C. $(5/6)^6$
 B. $1 - (1/6)^6$ D. $(1/6)^6$

24)A bag contains 5 brown and 4 white socks. Ram pulls out two socks. What is the probability that both the socks are of the same colour?

- A. 9/20 C. 3/20
 B. 2/9 D. 4/9

25) If the variance of the data is 121, the standard deviation of the data is:

- (a) 121 (c) 12
 (b) 11 (d) 21

26): Relation between mean, median and mode is given by:

- (a) Mode = 2 Median - 3 Mean
 (b) Mode = 2 Median + 3 Mean
 (c) Mode = 3 Median - 2 Mean
 (d) Mode = 3 Median + 2 Mean

27)The negation of the statement "7 is greater than 8" is

- (a) 7 is equal to 8. (c) 8 is less than 7.
 (b) 7 is not greater than 8. (d) none of these

28) Which of the following is not a statement?

- (a) Smoking is injurious to health. (c) 2 is the only even prime number.
 (b) $2 + 2 = 4$ (d) Come here.

Principal

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29) Which of the following is a statement?

- (a) Roses are black. (c) Be punctual.
 (b) Mind your own business. (d) Do not tell lies.

30) The derivative of $x^2 \cos x$ is

- (a) $2x \sin x - x^2 \sin x$ (c) $2x \sin x - x^2 \cos x$
 (b) $2x \cos x - x^2 \sin x$ (d) $\cos x - x^2 \sin x \cos x$

31) The centre of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is

- a. (-2, 3) c. (-4, 6)
 b. (1, -3/2) d. (4, -6)

32) The parametric equation of the parabola $y^2 = 4ax$ is

- a. $x = at; y = 2at$ c. $x = at^2; y = at^3$
 b. $x = at^2; y = 2at$ d. $x = at^2; y = 4at$

33) Two lines are said to be parallel if the difference of their slope is

- a. -1 c. 1
 b. 0 d. None of these

34) What is the distance of (5, 12) from the origin?

- a. 5 units c. 12 units
 b. 8 units d. 13 units

35) The largest coefficient in the expansion of $(1+x)^{10}$ is:

- a. $10! / (5!)^2$ c. $10! / (5! \times 4!)^2$
 b. $10! / 5!$ d. $10! / (5! \times 4!)$

36) If n is even in the expansion of $(a+b)^n$, the middle term is:

- a. n^{th} term c. $[(n/2)-1]^{\text{th}}$ term
 b. $(n/2)^{\text{th}}$ term d. $[(n/2)+1]^{\text{th}}$ term

37) The value of $(126)^{1/3}$ up to three decimal places is

- a. 5.011 c. 5.013
 b. 5.012 d. 5.014

38) The number of squares that can be formed on a chessboard is

- a. 64 c. 204
 b. 160 d. 224

39) If ${}^n P_5 = 60 {}^{n-1} P_3$, the value of n is

- a. 6 c. 12
 b. 10 d. 16

40) Number of solutions of the equation $z^2 + |z|^2 = 0$ is

- (a) 1 (c) 3
 (b) 2 (d) infinitely many

41) If $1-i$ is a root of the equation $x^2 + ax + b = 0$, where $a, b \in \mathbb{R}$, then the value of $a-b$ is

- (a) -4 (c) 2
 (b) 0 (d) 1

42) For any natural number n , $2^{2n} - 1$ is divisible by

- (a) 2 (c) 4
 (b) 3 (d) 5

43) If $\tan A = 1/2$ and $\tan B = 1/3$, then the value of $A+B$ is

- (a) $\pi/6$ (c) 0
 (b) π (d) $\pi/4$

44) If $\sin \theta$ and $\cos \theta$ are the roots of $ax^2 - bx + c = 0$, then the relation between a, b and c will be

- (a) $a^2 + b^2 + 2ac = 0$ (c) $a^2 + c^2 + 2ab = 0$
 (b) $a^2 - b^2 + 2ac = 0$ (d) $a^2 - b^2 - 2ac = 0$

45) If $f(x) = x^2 + 2$, $x \in \mathbb{R}$, then the range of $f(x)$ is

- (a) $[2, \infty)$ (c) $(2, \infty)$
 (b) $(-\infty, 2]$ (d) $(-\infty, 2) \cup (2, \infty)$

46) What will be the domain for which the functions $f(x) = 2x^2 - 1$ and $g(x) = 1 - 3x$ are equal?

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(a) $\{-2, 1\}$

(c) $\{2, 12\}$

(b) $\{1/2, -2\}$

47) Let $p(x)$ be a quadratic polynomial with real coefficients. If $p(x) = 0$ has only purely imaginary roots, then the zeros of the polynomial $p(p(x))$ are

a. only real numbers

b. only purely imaginary numbers

c. only rational numbers

d. only complex numbers of the form $a+ib$ with $a \neq 0$ and $b \neq 0$

48) In a triangle ABC, D and E divide the sides BC and CA in the ratio 2:1 respectively. If P is the point of intersection of AD and BE, then the ratio in which P divides AD is..

a. 2:1

c. 4:3

b. 3:4

d. 1:2

49) If the incentre and the circumcentre of the triangle formed by the lines $x=2$,

$4x+3y+7=0$ and I and S respectively, then IS =

a. 5

c. $4\sqrt{2}$

b. $\sqrt{5}$

d. $2\sqrt{5}$

50) The equation $x^2 - y^2 + ax + b = 0$ represents a pair of lines for the ordered pair $(a, b) =$

a. (2, 6)

c. (4, 8)

b. (3, 4)

d. (6, 9)

PHYSICS

51) SI unit of the magnetic field is _____.

a. Dyne

c. Tesla

b. Ohm

d. Volt

52) Magnetic field at any point inside the straight solenoid is given as _____

a. $B = \mu_0 n I$

c. $B = \mu_0 n I$

b. $B = \mu_0 n I$

d. $B = \mu_0 n I$

53) When the charged particles move in a combined magnetic and electric field, then the force acting is known as _____.

a) Centripetal force

d) Orbital force

b) centrifugal force

c) Lorentz force

54) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.

a. Heavy body

d. None of the options

b. Light body

c. Both

55) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

a. True

b. False

56) Find the power if the work done is 20j per hour

a. 100 W

c. 20 W

b. 200 W

d. 500 W

57) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

a. 121.20 J

c. 227.31 J

b. 147.15 J

d. 182.21 J

58) If 2.2 kilowatt power is being transmitted at 44KV on a 20 ohm line, then power loss will be

(a) 0.1 watt

(c) 100 watt

(b) 1.4 watt

(d) 0.05 watt

59) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.

a. Heavy body

c. Both

b. Light body

d. None of the options

60) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

a. True

b. False

61) What is the power utilised when work of 1000 J is done in 2 seconds?

a. 100 W

c. 20 W

b. 200 W

d. 500 W

62) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

a. 121.20 J

c. 227.31 J

b. 147.15 J

d. 182.21 J

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- 63) The energy possessed by the body by virtue of its motion is known as?
- Chemical energy
 - Thermal energy
 - Potential energy
 - Kinetic energy
- 64) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta
- Heavy body
 - Light body
 - Both
 - None of the options
- 65) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.
- True
 - False
- 66) What is the power utilised when work of 1000 J is done in 2 seconds?
- 100 W
 - 200 W
 - 20 W
 - 500 W
- 67) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.
- 121.20 J
 - 147.15 J
 - 227.31 J
 - 182.21 J
- 68) Water is flowing with a velocity of 3m/s in a pipe of diameter 4 cm. This water enters another tube of diameter 2 cm. The velocity of water in this tube is
- 12 m/s
 - 6 m/s
 - 3 m/s
 - 1.5 m/s
- 69) The physical Quantity is
- Mass
 - Time
 - Solid angle
 - Luminosity



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- 70) The symbol to represent "Amount of Substance" is _____
- K
 - A
 - Cd
 - Mol
- 71) among the following is the Supplementary Unit _____
- Mass
 - Time
 - Solid angle
 - Luminosity
- 72) symbol to represent "Amount of Substance" is _____
- K
 - A
 - Cd
 - mol
- 73) Farad is the unit of _____
- Luminosity
 - Wavelength
 - Permittivity
 - Inertia
- 74) Dimensions of kinetic energy is the same as that of _____
- Acceleration
 - Velocity
 - Work
 - Force.
- 75) AU is the unit of _____
- Astronomy Unit
 - Astronomical unit
 - Archaeological Unit
 - Astrological Unit
- 76) Give an example of motion in two dimensions _____
- Motion along a straight line in any direction
 - Bird flying
 - A flying kite
 - Projectile motion
- 77) Motion in a plane is called _____
- Motion in one dimension
 - Motion in two dimensions
 - Motion in three dimensions
 - Motion in four dimensions
- 78) Uniform circular motion is given by the formula _____
- $V = u + at$
 - $v^2 - u^2 = 2AS$
 - $V = U = A$
 - none

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79) Find the general solution of: $ax^2 + bx + c$

A. $\sin^{-1} y = x + c$

B. $\sin^{-1} y/2 = x + c$

C. $\sin^{-1} y^2 = x + c$

D. None of the above

80) Hydraulic brakes work on the principle of

(a) Pascal's Law

(b) Thomson's Law

(c) Newton's Law

(d) Bernoulli's Theorem

CHEMISTRY

81) If liquids A and B form an ideal solution

(a) The entropy of mixing is zero

(b) The free energy of mixing is zero

(c) The free energy as well as the entropy of mixing

(d) The free energy mixing is maximum

82) For an ideal gas, C_V and C_P are related as :

(a) $C_V - C_P = R$

(b) $C_V + C_P = R$

(c) $C_P - C_V = RT$

(d) $C_P - C_V = R$

83) Gases deviate from ideal behaviour because molecules ————

(a) are colourless

(b) are spherical

(c) attract each other

(d) have high speeds

84) Which of the following molecules have trigonal planar geometry?



85) The elements with atomic numbers 9, 17, 35, 53, 85 are all ————

(a) halogens

(b) noble gases

(c) alkali earth metals

(d) transition metals

86) Isotopes of an element have ————

(a) Different chemical and physical properties

(b) Similar chemical and physical properties

(c) Similar chemical but different physical properties

(d) Similar physical but different chemical properties

87) The radius of an atomic nucleus is of the order of ————

(a) 10^{-10} cm

(b) 10^{-13} cm

(c) 10^{-15} cm

(d) 10^{-8} cm

88) The significant figures in 0.00051 are ————.

(a) 5

(b) 3

(c) 2

(d) 26

89) A pure substance which contains only one type of atom is called ————.

(a) An element

(b) a compound

(c) a solid

(d) a liquid

90) Which of the following statements concerning transuranium elements is incorrect?

a) Atomic number > 92

b) Example is Thorium

c) Decay radioactively as they are unstable

d) Elements after Uranium

91) When copper chips are exposed to concentrated nitric acid, which gas is produced?

a) Nitrogen (III) oxide

b) Nitrogen (IV) oxide

c) Nitrogen (I) oxide

d) Nitrogen (II) oxide

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92) What happens to the size of atoms in p-block elements when we move from left to right in the same period?

- a) Size does not change
- b) Size increases then decreases
- c) Size increases
- d) Size decreases

93) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 120 minutes

94) Only a simple homogeneous reaction requires which of the following methods?

- a) Integration method
- b) Half-life period method
- c) Graphical method
- d) Ostwald's isolation method

95) What effect does temperature have on the half-life of a first-order reaction?

- a) It increases
- b) It decreases
- c) It remains the same
- d) Both increases as well as decrease

96) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 120 minutes

97) The heat of solution or mixing has a negative side.

- a) Heat of solution
- b) Heat of dissolution
- c) Heat of reaction
- d) Heat of mixing

98) When two perfect solutions with volume V each are combined, What is the volume of the solution as a result?

- a) V
- b) 2V
- c) Greater than 2V
- d) Less than 2V

99) The electrons of Rutherford's model would be expected to lose energy because

- a. They jump on the nucleus
- b. They move randomly
- c. Radiate electromagnetic waves
- d. Escape from the atom

100) Electrons in the atom are held to the nucleus by

- a. Nuclear Force
- b. Coulomb's Force
- c. Gravitational Force
- d. Van Der Waal's Force

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2022-23 MODEL FREESHIP QUESTION PAPER QUESTION PAPER NAME: ENGINEERING

Total Marks:100
Duration:180 Min

Date: 12/08/22

NAME OF THE STUDENT: P. Nithin FREESHIP NO AVH2022137

85

1) Solution of differential equation $x \cdot dy - y \cdot dx = Q$ represents:

- A. a rectangular hyperbola
- B. parabola whose vertex is at the origin
- C. straight line passing through the origin
- D. a circle whose centre is at the origin

2) What is the differential equation of the family of circles touching the y-axis at the origin?

- A. $2xyy' + x^2 = y^2$
- B. $2xyy'' + x' = y^2$
- C. $2xyy' - x^2 = y^2$
- D. $xyy' + x^2 = y^2$

3) The number of arbitrary constants in the particular solution of a differential equation of third order is:

- a. 3
- b. 2
- c. 1
- d. 0

4) Find the degree of the differential equation: $(1 + \frac{d^2y}{dx^2})^3 = (\frac{d^2y}{dx^2})^2$

- A. 0
- B. 1
- C. 2
- D. 3

5) If $\int 2^x dx = f(x) + C$, then $f(x)$ is

- a. 2^x
- b. $2^x \log_e 2$
- c. $2^x / \log_e 2$
- d. $2^{x+1} / x+1$

6) $\int (x^2 + 3) dx$ equals

- a. 24/3
- b. 25/3
- c. 26/3
- d. None of the above..

7) The area of a triangle with vertices $(-3, 0)$, $(3, 0)$ and $(0, k)$ is 9 sq. units. The value of k will be

- a) 9
- (b) 3
- (c) -9
- (d) 6

8) If $x \sin(a+y) = \sin y$, then dy/dx is equal to

- a. $[\sin^2(a+y)]/\sin a$
- b. $\sin a / [\sin^2(a+y)]$
- c. $[\sin(a+y)]/\sin a$
- d. $\sin a / [\sin(a+y)]$

9) The function $f(x) = [\ln(1+ax) - \ln(1-bx)]/x$, not defined at $x=0$. The value should be assigned to f at $x=0$, so that it is continuous at $x=0$, is

- a. $a+b$
- b. $a-b$
- c. $b-a$
- d. $\ln a + \ln b$

10) If $y = ax^2 + b$, then dy/dx at $x=2$ is equal to

- a. $2a$
- b. $3a$
- c. $4a$
- d. None of these

11) The value of c in Rolle's theorem for the function, $f(x) = \sin 2x$ in $[0, \pi/2]$ is

- a. $\pi/4$
- b. $\pi/6$
- c. $\pi/2$
- d. $\pi/3$

12) If $x = t^2$, $y = t^3$, then $d^2y/dx^2 =$

- a. $3/2$
- b. $3/4t$
- c. $3/2t$
- d. $3t/2$

13) If A is a square matrix of order 3 and $|A| = 5$, then the value of $|2A|$ is

- (a) -10
- (b) 10
- (c) -40
- (d) 40

14) If $[2 \frac{d}{dx} + 2 \frac{d^2}{dx^2} - 2 \frac{d}{dx} - 5 \frac{d^2}{dx^2} + 4 \frac{d}{dx} + 3 \frac{d^2}{dx^2}] = [4 - 31124]$, then the value of $p + q - r + 2s$ is

- (a) 8
- (b) 10
- (c) 4
- (d) -8

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15)-8If A and B are two matrices of the order $3 \times m$ and $3 \times n$, respectively, and $m = n$, then the order of matrix $(5A - 2B)$ is

- (a) $m \times 3$
- (b) 3×3
- (c) $m \times n$
- (d) $3 \times n$

16)The value of the expression $\sin [\cot^{-1} (\cos (\tan^{-1} 1))]$ is

- (a) 0
- (b) 1
- (c) $1/\sqrt{3}$
- (d) $\sqrt{2/3}$

17)Which of the following is the principal value branch of $\cos^{-1} x$?

- (a) $[-\pi/2, \pi/2]$
- (b) $(0, \pi)$
- (c) $[0, \pi]$
- (d) $(0, \pi) - \{\pi/2\}$

18)If $\sin^{-1} x + \sin^{-1} y = \pi/2$, then value of $\cos^{-1} x + \cos^{-1} y$ is

- (a) $\pi/2$
- (b) π
- (c) 0
- (d) $2\pi/3$

Therefore, $\cos^{-1} x + \cos^{-1} y = \pi/2$.

19)The domain of $\sin^{-1}(2x)$ is

- (a) $[0, 1]$
- (b) $[-1, 1]$
- (c) $[-1/2, 1/2]$
- (d) $[-2, 2]$

20) The maximum number of equivalence relations on the set $A = \{1, 2, 3\}$ are

- (a) 1
- (b) 2
- (c) 3
- (d) 5

21)If set A contains 5 elements and the set B contains 6 elements, then the number of one-one and onto mappings from A to B is

- (a) 720
- (b) 120
- (c) 0
- (d) none of these

22)Events A and B are said to be mutually exclusive if:

- A. $P(A \cup B) = P(A) + P(B)$
- B. $P(A \cap B) = P(A) \times P(B)$
- C. $P(A \cup B) = 0$
- D. None of these

23)What is the probability of getting the number 6 at least once in a regular die if it can roll it 6 times?

- A. $1 - (5/6)^6$
- B. $1 - (1/6)^6$
- C. $(5/6)^6$
- D. $(1/6)^6$

24)A bag contains 5 brown and 4 white socks. Ram pulls out two socks. What is the probability that both the socks are of the same colour?

- A. $9/20$
- B. $2/9$
- C. $3/20$
- D. $4/9$

25) If the variance of the data is 121, the standard deviation of the data is:

- (a) 121
- (b) 11
- (c) 12
- (d) 21

26): Relation between mean, median and mode is given by:

- (a) Mode = 2 Median - 3 Mean
- (b) Mode = 2 Median + 3 Mean
- (c) Mode = 3 Median - 2 Mean
- (d) Mode = 3 Median + 2 Mean

27)The negation of the statement "7 is greater than 8" is

- (a) 7 is equal to 8.
- (b) 7 is not greater than 8.
- (c) 8 is less than 7.
- (d) none of these

28) Which of the following is not a statement?

- (a) Smoking is injurious to health.
- (b) $2 + 2 = 4$
- (c) 2 is the only even prime number.
- (d) Come here.

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29) Which of the following is a statement?

- ~~(a) Roses are black.~~
- (b) Mind your own business.
- ~~(c) Be punctual.~~
- ~~(d) Do not tell lies.~~

30) The derivative of $x^2 \cos x$ is

- (a) $2x \sin x - x^2 \sin x$
- ~~(b) $2x \cos x - x^2 \sin x$~~
- ~~(c) $2x \sin x - x^2 \cos x$~~
- ~~(d) $\cos x - x^2 \sin x \cos x$~~

31) The centre of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is

- ~~a. (-2, 3)~~
- b. (1, -3/2)
- ~~c. (-4, 6)~~
- ~~d. (4, -6)~~

32) The parametric equation of the parabola $y^2 = 4ax$ is

- ~~a. $x = at; y = 2at$~~
- b. $x = at^2; y = 2at$
- ~~c. $x = at^2; y^2 = at^3$~~
- ~~d. $x = at^2; y = 4at$~~

33) Two lines are said to be parallel if the difference of their slope is

- ~~a. 1~~
- b. 0
- ~~c. 1~~
- ~~d. None of these~~

34) What is the distance of (5, 12) from the origin?

- a. 5 units
- b. 8 units
- ~~c. 12 units~~
- ~~d. 13 units~~

35) The largest coefficient in the expansion of $(1+x)^{10}$ is:

- ~~a. $10! / (5!)^2$~~
- b. $10! / 5!$
- ~~c. $10! / (5! \times 4!)^2$~~
- ~~d. $10! / (5! \times 4!)$~~

36) If n is even in the expansion of $(a+b)^n$, the middle term is:

- a. n^{th} term
- b. $(n/2)^{\text{th}}$ term
- ~~c. $[(n/2)-1]^{\text{th}}$ term~~
- ~~d. $[(n/2)+1]^{\text{th}}$ term~~

37) The value of $(126)^{1/3}$ up to three decimal places is

- a. 5.011
- b. 5.012
- ~~c. 5.013~~
- ~~d. 5.014~~

38) The number of squares that can be formed on a chessboard is

- a. 64
- b. 160
- ~~c. 204~~
- ~~d. 224~~

39) If ${}^n P_5 = 60 {}^{n-1} P_3$, the value of n is

- ~~a. 6~~
- b. 10
- ~~c. 12~~
- ~~d. 16~~

40) Number of solutions of the equation $z^2 + |z|^2 = 0$ is

- ~~(a) 1~~
- (b) 2
- ~~(c) 3~~
- ~~(d) infinitely many~~

41) If $1-i$ is a root of the equation $x^2 + ax + b = 0$, where a, b $\in \mathbb{R}$, then the value of a - b is

- (a) -4
- (b) 0
- ~~(c) 2~~
- (d) 1

42) For any natural number n, $2^{2n} - 1$ is divisible by

- (a) 2
- ~~(b) 3~~
- ~~(c) 4~~
- (d) 5

43) If $\tan A = 1/2$ and $\tan B = 1/3$, then the value of A + B is

- (a) $\pi/6$
- (b) π
- ~~(c) 0~~
- ~~(d) $\pi/4$~~

44) If $\sin \theta$ and $\cos \theta$ are the roots of $ax^2 - bx + c = 0$, then the relation between a, b and c will be

- (a) $a^2 + b^2 + 2ac = 0$
- ~~(c) $a^2 + c^2 + 2ab = 0$~~
- (b) $a^2 - b^2 + 2ac = 0$
- ~~(d) $a^2 - b^2 - 2ac = 0$~~

45) If $f(x) = x^2 + 2$, $x \in \mathbb{R}$, then the range of f(x) is

- (a) $[2, \infty)$
- ~~(c) $(2, \infty)$~~
- (b) $(-\infty, 2]$
- (d) $(-\infty, 2) \cup (2, \infty)$

46) What will be the domain for which the functions $f(x) = 2x^2 - 1$ and $g(x) = 1 - 3x$ are equal?

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(a) {-2, 1}

(c) [2, 12]

(b) {1/2, -2}

47) Let $p(x)$ be a quadratic polynomial with real coefficients. If $p(x) = 0$ has only purely imaginary roots, then the zeros of the polynomial $p(p(x))$ are

a. only real numbers

b. only purely imaginary numbers

c. only rational numbers

d. only complex numbers of the form $a+ib$ with $a \neq 0$ and $b \neq 0$

48) In a triangle ABC, D and E divide the sides BC and CA in the ratio 2:1 respectively. If P is the point of intersection of AD and BE then the ratio in which P divides AD is..

a. 2:1
b. 3:4

c. 4:3
d. 1:2

49) If the incentre and the circumcentre of the triangle formed by the lines $x=2$, $4x+3y+7=0$ and I and S respectively, then IS =

a. 5
b. $\sqrt{5}$

c. $4\sqrt{2}$
d. $2\sqrt{5}$

50) The equation $x^2 - y^2 + ax + b = 0$ represents a pair of lines for the ordered pair (a, b) =

a. (2, 6)
b. (3, 4)

c. (4, 8)
d. (6, 9)

PHYSICS

51) SI unit of the magnetic field is _____.

a. Dyne
b. Ohm

c. Tesla
d. Volt

52) Magnetic field at any point inside the straight solenoid is given as _____

a. $B = \mu_0 n I$
b. $B = \mu_0 n + I$

c. $B = \mu_0 n I$
d. $B = \mu_0 n I$

53) When the charged particles move in a combined magnetic and electric field, then the force acting is known as _____.

a) Centripetal force
b) centrifugal force
c) Lorentz force

d) Orbital force



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54) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.
a. Heavy body
b. Light body
c. Both
d. None of the options

55) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

a. True
b. False

56) Find the power if the work done is 20J per hour

a. 100 W
b. 200 W

c. 20 W
d. 500 W

57) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

a. 121.20 J
b. 147.15 J

c. 227.31 J
d. 182.21 J

58) If 2.2 kilowatt power is being transmitted at 44KV on a 20 ohm line, then power loss will be
(a) 0.1 watt
(b) 1.4 watt
(c) 100 watt
(d) 0.05 watt

59) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.
a. Heavy body
b. Light body
c. Both
d. None of the options

60) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

a. True
b. False

61) What is the power utilised when work of 1000 J is done in 2 seconds?

a. 100 W
b. 200 W

c. 20 W
d. 500 W

62) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

a. 121.20 J
b. 147.15 J

c. 227.31 J
d. 182.21 J

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63) The energy possessed by the body by virtue of its motion is known as?
a. Chemical energy
b. Thermal energy
c. Potential energy
d. Kinetic energy

64) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta
a. Heavy body
b. Light body
c. Both
d. None of the options

65) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.
a. True
b. False

66) What is the power utilised when work of 1000 J is done in 2 seconds?
a. 100 W
b. 200 W
c. 20 W
d. 500 W

67) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.
a. 121.20 J
b. 147.15 J
c. 227.31 J
d. 182.21 J

68) Water is flowing with a velocity of 3m/s in a pipe of diameter 4 cm. This water enters another tube of diameter 2 cm. The velocity of water in this tube is
a. 12 m/s
b. 6 m/s
c. 3 m/s
d. 1.5 m/s

69) The physical Quantity is
a. Mass
b. Time
c. Solid angle
d. Luminosity



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70) The symbol to represent "Amount of Substance" is _____
a. K
b. A
c. Cd
d. Mol

71) Among the following is the Supplementary Unit _____
a. Mass
b. Time
c. Solid angle
d. Luminosity

72) Symbol to represent "Amount of Substance" is _____
a. K
b. A
c. Cd
d. mol

73) Farad is the unit of _____
a. Luminosity
b. Wavelength
c. Permittivity
d. Inertia

74) Dimensions of kinetic energy is the same as that of _____
a. Acceleration
b. Velocity
c. Work
d. Force

75) AU is the unit of _____
a. Astronomy Unit
b. Astronomical unit
c. Astrological Unit
d. Archaeological Unit

76) Give an example of motion in two dimensions _____
a. Motion along a straight line in any direction
b. Bird flying
c. A flying kite
d. Projectile motion

77) Motion in a plane is called _____
a. Motion in one dimension
b. Motion in two dimensions
c. Motion in three dimensions
d. Motion in four dimensions

78) Uniform circular motion is given by the formula _____
a. $V = u + at$
b. $v^2 - u^2 = 2AS$
c. $V = U = A$
d. none

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79) Find the general solution of: $ax^2 + bx + c$

A. $\sin^{-1} y = x + c$

B. $\sin^{-1} y/2 = x + c$

C. $\sin^{-1} y^2 = x + c$

D. None of the above

80) Hydraulic brakes work on the principal of

(a) Pascal's Law

(b) Thomson's Law

(c) Newton's Law

(d) Bernouli's Theorem

CHEMISTRY

81) If liquids A and B form an ideal solution

(a) The entropy of mixing is zero

(b) The free energy of mixing is zero

(c) The free energy as well as the entropy of mixing

(d) The free energy mixing is maximum

82) For an ideal gas, C_V and C_P are related as :

(a) $C_V - C_P = R$

(b) $C_V + C_P = R$

(c) $C_P - C_V = RT$

(d) $C_P - C_V = R$

83) Gases deviate from ideal behaviour because molecules _____

a) are colourless

(b) are spherical

(c) attract each other

(d) have high speeds

84) Which of the following molecules have trigonal planar geometry?



85) The elements with atomic numbers 9, 17, 35, 53, 85 are all _____

(a) halogens

(b) noble gases

(c) alkali earth metals

(d) transition metals



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86) Isotopes of an element have _____

(a) Different chemical and physical properties

(b) Similar chemical and physical properties

(c) Similar chemical but different physical properties

(d) Similar physical but different chemical properties

87) The radius of an atomic nucleus is of the order of _____

(a) 10^{-10} cm

(b) 10^{-13} cm

(c) 10^{-15} cm

(d) 10^{-8} cm

88) The significant figures in 0.00051 are _____.

(a) 5

(b) 3

(c) 2

(d) 26

89) A pure substance which contains only one type of atom is called _____.

(a) An element

(b) a compound

(c) a solid

(d) a liquid

90) Which of the following statements concerning transuranium elements is incorrect?

a) Atomic number > 92

(b) Example is Thorium

(c) Decay radioactively as they are unstable

(d) Elements after Uranium

91) When copper chips are exposed to concentrated nitric acid, which gas is produced?

a) Nitrogen (III) oxide

(b) Nitrogen (IV) oxide

(c) Nitrogen (I) oxide

(d) Nitrogen (II) oxide

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92) What happens to the size of atoms in p-block elements when we move from left to right in the same period?

- a) Size does not change
- b) Size increases then decreases
- c) Size increases
- d) Size decreases

93) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 120 minutes

94) Only a simple homogeneous reaction requires which of the following methods?

- a) Integration method
- b) Half-life period method
- c) Graphical method
- d) Ostwald's isolation method

95) What effect does temperature have on the half-life of a first-order reaction?

- a) It increases
- b) It decreases
- c) It remains the same
- d) Both increases as well as decrease

96) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 120 minutes

97) The heat of solution or mixing has a negative side.

- a) Heat of solution
- b) Heat of dissolution
- c) Heat of reaction
- d) Heat of mixing

98) When two perfect solutions with volume V each are combined, What is the volume of the solution as a result?

- a) V
- b) $2V$
- c) Greater than $2V$
- d) Less than $2V$

99) The electrons of Rutherford's model would be expected to lose energy because

- a. They jump on the nucleus
- b. They move randomly
- c. Radiate electromagnetic waves
- d. Escape from the atom

100) Electrons in the atom are held to the nucleus by

- a. Nuclear Force
- b. Coulomb's Force
- c. Gravitational Force
- d. Van Der Waal's Force

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2022-23 MODEL FREESHIP QUESTION PAPER QUESTION PAPER NAME: ENGINEERING

Total Marks: 100
Duration: 180 Min

Date: 24/09/2022

NAME OF THE STUDENT: J. Mounik FREESHIP NO: AV192022197

82

1) Solution of differential equation $x \cdot dy - y \cdot dx = Q$ represents:

- A. a rectangular hyperbola
- B. parabola whose vertex is at the origin
- C. straight line passing through the origin
- D. a circle whose centre is at the origin

2) What is the differential equation of the family of circles touching the y-axis at the origin?

- A. $2xyy' + x^2 = y^2$
- B. $2xyy'' + x' = y^2$
- C. $2xyy' - x^2 = y^2$
- D. $xyy' + x^2 = y^2$

3) The number of arbitrary constants in the particular solution of a differential equation of third order is:

- a. 3
- b. 2
- c. 1
- d. 0

4) Find the degree of the differential equation: $(1 + \frac{d^2y}{dx^2})^3 = (\frac{d^2y}{dx^2})^2$

- A. 0
- B. 1
- C. 2
- D. 3

5) If $\int 2^x dx = f(x) + C$, then $f(x)$ is

- a. 2^x
- b. $2^x \log_e 2$
- c. $2^x / \log_e 2$
- d. $2^{x+1} / x+1$

6) $\int (x^2 + 3) dx$ equals

- a. $24/3$
- b. $25/3$
- c. $26/3$
- d. None of the above..

7) The area of a triangle with vertices $(-3, 0)$, $(3, 0)$ and $(0, k)$ is 9 sq. units. The value of k will be

- (a) 9
- (b) 3
- (c) -9
- (d) 6

8) If $x \sin(a+y) = \sin y$, then dy/dx is equal to

- a. $[\sin^2(a+y)]/\sin a$
- b. $\sin a / [\sin^2(a+y)]$
- c. $[\sin(a+y)]/\sin a$
- d. $\sin a / [\sin(a+y)]$

9) The function $f(x) = [\ln(1+ax) - \ln(1-bx)]/x$, not defined at $x=0$. The value should be assigned to f at $x=0$, so that it is continuous at $x=0$, is

- a. $a+b$
- b. $a-b$
- c. $b-a$
- d. $\ln a + \ln b$

10) If $y = ax^2 + b$, then dy/dx at $x=2$ is equal to

- a. $2a$
- b. $3a$
- c. $4a$
- d. None of these

11) The value of c in Rolle's theorem for the function, $f(x) = \sin 2x$ in $[0, \pi/2]$ is

- a. $\pi/4$
- b. $\pi/6$
- c. $\pi/2$
- d. $\pi/3$

12) If $x = t^2$, $y = t^3$, then $d^2y/dx^2 =$

- a. $3/2$
- b. $3/4t$
- c. $3/2t$
- d. $3t/2$

13) If A is a square matrix of order 3 and $|A| = 5$, then the value of $|2A|$ is

- (a) -10
- (b) 10
- (c) -40
- (d) 40

14) If $[2\oplus + \oplus\oplus - 2\oplus 5\oplus - \oplus 4\oplus + 3\oplus] = [4-31124]$, then the value of $p + q - r + 2s$ is

- (a) 8
- (b) 10
- (c) 4
- (d) -8

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15)-8If A and B are two matrices of the order $3 \times m$ and $3 \times n$, respectively, and $m = n$, then the order of matrix $(5A - 2B)$ is

- (a) $m \times 3$
- (b) 3×3
- (c) $m \times n$
- (d) $3 \times n$

16)The value of the expression $\sin [\cot^{-1} (\cos (\tan^{-1} 1))]$ is

- (a) 0
- (b) 1
- (c) $1/\sqrt{3}$
- (d) $\sqrt{2/3}$

17)Which of the following is the principal value branch of $\cos^{-1} x$?

- (a) $[-\pi/2, \pi/2]$
- (b) $(0, \pi)$
- (c) $[0, \pi]$
- (d) $(0, \pi) - \{\pi/2\}$

18)If $\sin^{-1} x + \sin^{-1} y = \pi/2$, then value of $\cos^{-1} x + \cos^{-1} y$ is

- (a) $\pi/2$
- (b) π
- (c) 0
- (d) $2\pi/3$

Therefore, $\cos^{-1} x + \cos^{-1} y = \pi/2$.

19)The domain of $\sin^{-1}(2x)$ is

- (a) $[0, 1]$
- (b) $[-1, 1]$
- (c) $[-1/2, 1/2]$
- (d) $[-2, 2]$

20) The maximum number of equivalence relations on the set $A = \{1, 2, 3\}$ are

- (a) 1
- (b) 2
- (c) 3
- (d) 5

21)If set A contains 5 elements and the set B contains 6 elements, then the number of one-one and onto mappings from A to B is

- (a) 720
- (b) 120
- (c) 0
- (d) none of these

22)Events A and B are said to be mutually exclusive if:

- A. $P(A \cup B) = P(A) + P(B)$
- B. $P(A \cap B) = P(A) \times P(B)$
- C. $P(A \cup B) = 0$
- D. None of these

23)What is the probability of getting the number 6 at least once in a regular die if it can roll it 6 times?

- A. $1 - (5/6)^6$
- B. $1 - (1/6)^6$
- C. $(5/6)^6$
- D. $(1/6)^6$

24)A bag contains 5 brown and 4 white socks. Ram pulls out two socks. What is the probability that both the socks are of the same colour?

- A. $9/20$
- B. $2/9$
- C. $3/20$
- D. $4/9$

25) If the variance of the data is 121, the standard deviation of the data is:

- (a) 121
- (b) 11
- (c) 12
- (d) 21

26): Relation between mean, median and mode is given by:

- (a) Mode = 2 Median - 3 Mean
- (b) Mode = 2 Median + 3 Mean
- (c) Mode = 3 Median - 2 Mean
- (d) Mode = 3 Median + 2 Mean

27)The negation of the statement "7 is greater than 8" is

- (a) 7 is equal to 8.
- (b) 7 is not greater than 8.
- (c) 8 is less than 7.
- (d) none of these

28) Which of the following is not a statement?

- (a) Smoking is injurious to health.
- (b) $2 + 2 = 4$
- (c) 2 is the only even prime number.
- (d) Come here.

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29) Which of the following is a statement?

- (a) Roses are black.
- (b) Mind your own business.
- (c) Be punctual.
- (d) Do not tell lies.

30) The derivative of $x^2 \cos x$ is

- (a) $2x \sin x - x^2 \sin x$
- (b) $2x \cos x - x^2 \sin x$
- (c) $2x \sin x - x^2 \cos x$
- (d) $\cos x - x^2 \sin x \cos x$

31) The centre of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is

- a. (-2, 3)
- b. (1, -3/2)
- c. (-4, 6)
- d. (4, -6)

32) The parametric equation of the parabola $y^2 = 4ax$ is

- a. $x = at; y = 2at$
- b. $x = at^2; y = 2at$
- c. $x = at^2; y^2 = at^3$
- d. $x = at^2; y = 4at$

33) Two lines are said to be parallel if the difference of their slope is

- a. -1
- b. 0
- c. 1
- d. None of these

34) What is the distance of (5, 12) from the origin?

- a. 5 units
- b. 8 units
- c. 12 units
- d. 13 units

35) The largest coefficient in the expansion of $(1+x)^{10}$ is:

- a. $10! / (5!)^2$
- b. $10! / 5!$
- c. $10! / (5! \times 4!)^2$
- d. $10! / (5! \times 4!)$

36) If n is even in the expansion of $(a+b)^n$, the middle term is:

- a. n^{th} term
- b. $(n/2)^{\text{th}}$ term
- c. $[(n/2)-1]^{\text{th}}$ term
- d. $[(n/2)+1]^{\text{th}}$ term

37) The value of $(126)^{1/3}$ up to three decimal places is

- a. 5.011
- b. 5.012
- c. 5.013
- d. 5.014

38) The number of squares that can be formed on a chessboard is

- a. 64
- b. 160
- c. 204
- d. 224

39) If ${}^n P_5 = 60 {}^{n-1} P_3$, the value of n is

- a. 6
- b. 10
- c. 12
- d. 16

40) Number of solutions of the equation $z^2 + |z|^2 = 0$ is

- (a) 1
- (b) 2
- (c) 3
- (d) infinitely many

41) If $1-i$ is a root of the equation $x^2 + ax + b = 0$, where $a, b \in \mathbb{R}$, then the value of $a-b$ is

- (a) -4
- (b) 0
- (c) 2
- (d) 1

42) For any natural number n , $2^{2n} - 1$ is divisible by

- (a) 2
- (b) 3
- (c) 4
- (d) 5

43) If $\tan A = 1/2$ and $\tan B = 1/3$, then the value of $A+B$ is

- (a) $\pi/6$
- (b) π
- (c) 0
- (d) $\pi/4$

44) If $\sin \theta$ and $\cos \theta$ are the roots of $ax^2 - bx + c = 0$, then the relation between a, b and c will be

- (a) $a^2 + b^2 + 2ac = 0$
- (b) $a^2 - b^2 + 2ac = 0$
- (c) $a^2 + c^2 + 2ab = 0$
- (d) $a^2 - b^2 - 2ac = 0$

45) If $f(x) = x^2 + 2$, $x \in \mathbb{R}$, then the range of $f(x)$ is

- (a) $[2, \infty)$
- (b) $(-\infty, 2]$
- (c) $(2, \infty)$
- (d) $(-\infty, 2) \cup (2, \infty)$

46) What will be the domain for which the functions $f(x) = 2x^2 - 1$ and $g(x) = 1 - 3x$ are equal?

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(a) {-2, 1}

(b) {1/2, -2}

(c) [2, 12]

47) Let $p(x)$ be a quadratic polynomial with real coefficients. If $p(x) = 0$ has only purely imaginary roots, then the zeros of the polynomial $p(p(x))$ are

a. only real numbers

b. only purely imaginary numbers

c. only rational numbers

d. only complex numbers of the form $a+ib$ with $a \neq 0$ and $b \neq 0$

48) In a triangle ABC, D and E divide the sides BC and CA in the ratio 2:1 respectively. If P is the point of intersection of AD and BE then the ratio in which P divides AD is..

a. 2:1

b. 3:4

c. 4:3

d. 1:2

49) If the incentre and the circumcentre of the triangle form by the lines $x=2$,

$4x+3y+7=0$ and I and S respectively, then IS =

a. 5

b. $\sqrt{5}$

c. $4\sqrt{2}$

d. $2\sqrt{5}$

50) The equation $x^2 - y^2 + ax + b = 0$ represents a pair of lines for the ordered pair (a,b) =

a. (2,6)

b. (3,4)

c. (4,8)

d. (6,9)

PHYSICS

51) SI unit of the magnetic field is _____.

a. Dyne

b. Ohm

c. Tesla

d. Volt

52) Magnetic field at any point inside the straight solenoid is given as _____

a. $B = \mu_0 n I$

b. $B = \mu_0 n + I$

c. $B = \mu_0 n I$

d. $B = \mu_0 n I$

53) When the charged particles move in a combined magnetic and electric field, then the force acting is known as _____.

a) Centripetal force

b) centrifugal force

c) Lorentz force

d) Orbital force

54) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.

a. Heavy body

b. Light body

c. Both

d. None of the options

55) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

a. True

b. False

56) Find the power if the work done is 20J per hour

a. 100 W

b. 200 W

c. 20 W

d. 500 W

57) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

a. 121.20 J

b. 147.15 J

c. 227.31 J

d. 182.21 J

58) If 2.2 kilowatt power is being transmitted at 44KV on a 20 ohm line, then power loss will be

(a) 0.1 watt

(b) 1.4 watt

(c) 100 watt

(d) 0.05 watt

59) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.

a. Heavy body

b. Light body

c. Both

d. None of the options

60) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

a. True

b. False

61) What is the power utilised when work of 1000 J is done in 2 seconds?

a. 100 W

b. 200 W

c. 20 W

d. 500 W

62) Find the potential energy stored in a ball of mass 5-kg placed at a height of 3 m above the ground.

a. 121.20 J

b. 147.15 J

c. 227.31 J

d. 182.21 J

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- 63) The energy possessed by the body by virtue of its motion is known as?
- a. Chemical energy
 - b. Thermal energy
 - c. Potential energy
 - d. Kinetic energy

- 64) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta
- a. Heavy body
 - b. Light body
 - c. Both
 - d. None of the options

- 65) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

- a. True
- b. False

- 66) What is the power utilised when work of 1000 J is done in 2 seconds?
- a. 100 W
 - b. 200 W
 - c. 20 W
 - d. 500 W

- 67) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

- a. 121.20 J
- b. 147.15 J
- c. 227.31 J
- d. 182.21 J

- 68) Water is flowing with a velocity of 3m/s in a pipe of diameter 4 cm. This water enters another tube of diameter 2 cm. The velocity of water in this tube is

- (a) 12 m/s
- (b) 6 m/s
- (c) 3 m/s
- (d) 1.5 m/s

- 69) The physical Quantity is

- a. Mass
- b. Time
- c. Solid angle
- d. Luminosity

- 70) The symbol to represent "Amount of Substance" is _____
- a. K
 - b. A
 - c. Cd
 - d. Mol

- 71) among the following is the Supplementary Unit _____
- a. Mass
 - b. Time
 - c. Solid angle
 - d. Luminosity

- 72) symbol to represent "Amount of Substance" is _____
- a. K
 - b. A
 - c. Cd
 - d. mol

- 73) Farad is the unit of _____
- a. Luminosity
 - b. Wavelength
 - c. Permittivity
 - d. Inertia

- 74) Dimensions of kinetic energy is the same as that of _____
- a. Acceleration
 - b. Velocity
 - c. Work
 - d. Force.

- 75) AU is the unit of _____
- a. Astronomy Unit
 - b. Astronomical unit
 - c. Astrological Unit
 - d. Archaeological Unit

- 76) Give an example of motion in two dimensions _____
- a. Motion along a straight line in any direction
 - b. Bird flying
 - c. A flying kite
 - d. Projectile motion

- 77) Motion in a plane is called _____
- a. Motion in one dimension
 - b. Motion in two dimensions
 - c. Motion in three dimensions
 - d. Motion in four dimensions

- 78) Uniform circular motion is given by the formula _____
- a. $V = u + at$
 - b. $v^2 - u^2 = 2as$
 - c. $V = u + A$
 - d. none



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79) Find the general solution of: $ax^2 + bx + c$

- A. $\sin^{-1} y = x + c$
- B. $\sin^{-1} y/2 = x + c$

~~C. $\sin^{-1} y^2 = x + c$~~

D. None of the above

80) Hydraulic brakes work on the principal of

- ~~(a) Pascal's Law~~
- (b) Thomson's Law

- (c) Newton's Law
- (d) Bernoulli's Theorem

CHEMISTRY

81) If liquids A and B form an ideal solution

- ~~(a) The entropy of mixing is zero~~
- (b) The free energy of mixing is zero
- (c) The free energy as well as the entropy of mixing
- (d) The free energy mixing is maximum

82) For an ideal gas, C_v and C_p are related as :

- (a) $C_v - C_p = R$
- ~~(b) $C_v + C_p = R$~~

- (c) $C_p - C_v = RT$
- (d) $C_p - C_v = R$

83) Gases deviate from ideal behaviour because molecules _____

- a) are colourless
- (b) are spherical
- ~~(c) attract each other~~
- ~~(d) have high speeds~~

84) Which of the following molecules have trigonal planar geometry?

- ~~(a) BF_3~~
- (b) NH_3
- (c) PCl_3
- (d) IF_3

85) The elements with atomic numbers 9, 17, 35, 53, 85 are all _____

- (a) halogens
- ~~(b) noble gases~~
- (c) alkali earth metals
- (d) transition metals



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86) Isotopes of an element have _____

- (a) Different chemical and physical properties
- (b) Similar chemical and physical properties
- (c) Similar chemical but different physical properties
- ~~(d) Similar physical but different chemical properties~~

87) The radius of an atomic nucleus is of the order of _____

- (a) 10^{-10} cm
- ~~(b) 10^{-13} cm~~
- (c) 10^{-15} cm
- (d) 10^{-8} cm

88) The significant figures in 0.00051 are _____.

- (a) 5
- (b) 3
- ~~(c) 2~~
- (d) 26

89) A pure substance which contains only one type of atom is called _____.

- ~~(a) An element~~
- (b) a compound
- (c) a solid
- (d) a liquid

90) Which of the following statements concerning transuranium elements is incorrect?

- a) Atomic number > 92
- ~~b) Example is Thorium~~
- c) Decay radioactively as they are unstable
- d) Elements after Uranium

91) When copper chips are exposed to concentrated nitric acid, which gas is produced?

- a) Nitrogen (III) oxide
- b) Nitrogen (IV) oxide
- (c) Nitrogen (I) oxide
- ~~(d) Nitrogen (II) oxide~~

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92) What happens to the size of atoms in p-block elements when we move from left to right in the same period?

- a) Size does not change
- b) Size increases then decreases
- c) Size increases
- d) Size decreases

93) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 120 minutes

94) Only a simple homogeneous reaction requires which of the following methods?

- a) Integration method
- b) Half-life period method
- c) Graphical method
- d) Ostwald's isolation method

95) What effect does temperature have on the half-life of a first-order reaction?

- a) It increases
- b) It decreases
- c) It remains the same
- d) Both increases as well as decrease

96) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 120 minutes

97) The heat of solution or mixing has a negative side.

- a) Heat of solution
- b) Heat of dissolution
- c) Heat of reaction
- d) Heat of mixing

98) When two perfect solutions with volume V each are combined, What is the volume of the solution as a result?

- a) V
- b) 2V
- c) Greater than 2V
- d) Less than 2V

99) The electrons of Rutherford's model would be expected to lose energy because

- a. They jump on the nucleus
- b. They move randomly
- c. Radiate electromagnetic waves
- d. Escape from the atom

100) Electrons in the atom are held to the nucleus by

- a. Nuclear Force
- b. Coulomb's Force
- c. Gravitational Force
- d. Van Der Waal's Force



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Date: 12-8-2022

2022-23 MODEL FREESHIP QUESTION PAPER QUESTION PAPER NAME: ENGINEERING

Total Marks: 100

Duration: 180 Min

50

NAME OF THE STUDENT: A. Avanthi Kumar FREESHIP NO: AVN2022113

1) Solution of differential equation $x \cdot dy - y \cdot dx = Q$ represents:

- A. a rectangular hyperbola
- B. parabola whose vertex is at the origin
- C. straight line passing through the origin
- D. a circle whose centre is at the origin

2) What is the differential equation of the family of circles touching the y-axis at the origin?

- A. $2xyy' + x^2 = y^2$
- B. $2xyy'' + x' = y^2$
- C. $2xyy' - x^2 = y^2$
- D. $xyy' + x^2 = y^2$

3) The number of arbitrary constants in the particular solution of a differential equation of third order is:

- a. 3
- b. 2
- c. 1
- d. 0

4) Find the degree of the differential equation: $(1 + \frac{dy}{dx})^3 = (\frac{d^2y}{dx^2})^2$

- A. 0
- B. 1
- C. 2
- D. 3

5) If $\int 2^x dx = f(x) + C$, then $f(x)$ is

- a. 2^x
- b. $2^x \log_e 2$
- c. $2^x / \log_e 2$
- d. $2^{x+1} / x+1$

6) $\int (x^2 + 3) dx$ equals

- a. 24/3
- b. 25/3
- c. 26/3
- d. None of the above..

7) The area of a triangle with vertices $(-3, 0)$, $(3, 0)$ and $(0, k)$ is 9 sq. units. The value of k will be

- (a) 9
- (b) 3
- (c) -9
- (d) 6

8) If $x \sin(a+y) = \sin y$, then dy/dx is equal to

- a. $[\sin^2(a+y)] / \sin a$
- b. $\sin a / [\sin^2(a+y)]$
- c. $[\sin(a+y)] / \sin a$
- d. $\sin a / [\sin(a+y)]$

9) The function $f(x) = [\ln(1+ax) - \ln(1-bx)] / x$, not defined at $x=0$. The value should be assigned to f at $x=0$, so that it is continuous at $x=0$, is

- a. $a+b$
- b. $a-b$
- c. $b-a$
- d. $\ln a + \ln b$

10) If $y = ax^2 + b$, then dy/dx at $x=2$ is equal to

- a. $2a$
- b. $3a$
- c. $4a$
- d. None of these

11) The value of c in Rolle's theorem for the function, $f(x) = \sin 2x$ in $[0, \pi/2]$ is

- a. $\pi/4$
- b. $\pi/6$
- c. $\pi/2$
- d. $\pi/3$

12) If $x = t^2$, $y = t^3$, then $d^2y/dx^2 =$

- a. $3/2$
- b. $3/4t$
- c. $3/2t$
- d. $3t/2$

13) If A is a square matrix of order 3 and $|A| = 5$, then the value of $|2A|$ is

- (a) -10
- (b) 10
- (c) -40
- (d) 40

14) If $[2 \diamond + \diamond \diamond - 2 \diamond 5 \diamond - \diamond 4 \diamond + 3 \diamond] = [4 - 31124]$, then the value of $p + q - r + 2s$ is

- (a) 8
- (b) 10
- (c) 4
- (d) -8

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15)-8If A and B are two matrices of the order $3 \times m$ and $3 \times n$, respectively, and $m = n$, then the order of matrix $(5A - 2B)$ is

- (a) $m \times 3$
- (b) 3×3
- (c) $m \times n$
- (d) $3 \times n$

16)The value of the expression $\sin [\cot^{-1} (\cos (\tan^{-1} 1))]$ is

- (a) 0
- (b) 1
- (c) $1/\sqrt{3}$
- (d) $\sqrt{2/3}$

17)Which of the following is the principal value branch of $\cos^{-1} x$?

- (a) $[-\pi/2, \pi/2]$
- (b) $(0, \pi)$
- (c) $[0, \pi]$
- (d) $(0, \pi) - \{\pi/2\}$

18)If $\sin^{-1} x + \sin^{-1} y = \pi/2$, then value of $\cos^{-1} x + \cos^{-1} y$ is

- (a) $\pi/2$
- (b) π
- (c) 0
- (d) $2\pi/3$

Therefore, $\cos^{-1} x + \cos^{-1} y = \pi/2$.

19)The domain of $\sin^{-1}(2x)$ is

- (a) $[0, 1]$
- (b) $[-1, 1]$
- (c) $[-1/2, 1/2]$
- (d) $[-2, 2]$

20)The maximum number of equivalence relations on the set $A = \{1, 2, 3\}$ are

- (a) 1
- (b) 2
- (c) 3
- (d) 5

21)If set A contains 5 elements and the set B contains 6 elements, then the number of one-one and onto mappings from A to B is

- (a) 720
- (b) 120
- (c) 0
- (d) none of these

22)Events A and B are said to be mutually exclusive if:

- A. $P(A \cup B) = P(A) + P(B)$.
- B. $P(A \cap B) = P(A) \times P(B)$.
- C. $P(A \cup B) = 0$
- D. None of these

23)What is the probability of getting the number 6 at least once in a regular die if it can roll it 6 times?

- A. $1 - (5/6)^6$
- B. $1 - (1/6)^6$
- C. $(5/6)^6$
- D. $(1/6)^6$

24)A bag contains 5 brown and 4 white socks. Ram pulls out two socks. What is the probability that both the socks are of the same colour?

- A. 9/20
- B. 2/9
- C. 3/20
- D. 4/9

25) If the variance of the data is 121, the standard deviation of the data is:

- (a) 121
- (b) 11
- (c) 12
- (d) 21

26): Relation between mean, median and mode is given by:

- (a) Mode = 2 Median - 3 Mean
- (b) Mode = 2 Median + 3 Mean
- (c) Mode = 3 Median - 2 Mean
- (d) Mode = 3 Median + 2 Mean

27)The negation of the statement "7 is greater than 8" is

- (a) 7 is equal to 8.
- (b) 7 is not greater than 8.
- (c) 8 is less than 7.
- (d) none of these

28) Which of the following is not a statement?

- (a) Smoking is injurious to health.
- (b) $2 + 2 = 4$
- (c) 2 is the only even prime number.
- (d) Come here.

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29) Which of the following is a statement?

- (a) Roses are black.
- (b) Mind your own business.

- (c) Be punctual.
- (d) Do not tell lies.

30) The derivative of $x^2 \cos x$ is

- (a) $2x \sin x - x^2 \sin x$
- (b) $2x \cos x - x^2 \sin x$

- (c) $2x \sin x - x^2 \cos x$
- (d) $\cos x - x^2 \sin x \cos x$

31) The centre of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is

- (a) (-2, 3)
- (b) (1, -3/2)

- (c) (-4, 6)
- (d) (4, -6)

32) The parametric equation of the parabola $y^2 = 4ax$ is

- a. $x = at; y = 2at$
- b. $x = at^2; y = 2at$

- c. $x = at^2; y^2 = at^3$
- (d) $x = at^2; y = 4at$

33) Two lines are said to be parallel if the difference of their slope is

- (a) -1
- b. 0

- c. 1
- d. None of these

34) What is the distance of (5, 12) from the origin?

- a. 5 units
- b. 8 units

- c. 12 units
- (d) 13 units

35) The largest coefficient in the expansion of $(1+x)^{10}$ is:

- a. $10! / (5!)^2$
- b. $10! / 5!$

- (c) $10! / (5! \times 4!)$
- d. $10! / (5! \times 4!)$

36) If n is even in the expansion of $(a+b)^n$, the middle term is:

- a. n^{th} term
- b. $(n/2)^{\text{th}}$ term

- c. $[(n/2)-1]^{\text{th}}$ term
- (d) $(n/2)+1]^{\text{th}}$ term

37) The value of $(126)^{1/3}$ up to three decimal places is

- a. 5.011
- b. 5.012

- (c) 5.013
- d. 5.014

38) The number of squares that can be formed on a chessboard is

- a. 64
- b. 160

- (c) 204
- (d) 224

39) If ${}^n P_5 = 60 {}^{n-1} P_3$, the value of n is

- a. 6
- (b) 10

- c. 12
- d. 16

40) Number of solutions of the equation $z^2 + |z|^2 = 0$ is

- (a) 1
- (b) 2

- (c) 3
- (d) infinitely many

41) If $-i$ is a root of the equation $x^2 + ax + b = 0$, where a, b $\in \mathbb{R}$, then the value of a - b is

- (a) -4
- (b) 0

- (c) 2
- (d) 1

42) For any natural number n, $2^{2n} - 1$ is divisible by

- (a) 2
- (b) 3

- (c) 4
- (d) 5

43) If $\tan A = 1/2$ and $\tan B = 1/3$, then the value of A + B is

- (a) $\pi/6$
- (b) π

- (c) $\pi/4$
- (d) $\pi/4$

44) If $\sin \theta$ and $\cos \theta$ are the roots of $ax^2 - bx + c = 0$, then the relation between a, b and c will be

- (a) $a^2 + b^2 + 2ac = 0$
- (b) $a^2 - b^2 + 2ac = 0$

- (c) $a^2 + c^2 + 2ab = 0$
- (d) $a^2 - b^2 - 2ac = 0$

45) If $f(x) = x^2 + 2$, $x \in \mathbb{R}$, then the range of f(x) is

- (a) $[2, \infty)$
- (b) $(-\infty, 2]$

- (c) $(2, \infty)$
- (d) $(-\infty, 2) \cup (2, \infty)$

46) What will be the domain for which the functions $f(x) = 2x^2 - 1$ and $g(x) = 1 - 3x$ are equal?

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- (a) $\{-2, 1\}$
- (b) $\{1/2, -2\}$

- (c) $\{2, 12\}$

47) Let $p(x)$ be a quadratic polynomial with real coefficients. If $p(x) = 0$ has only purely imaginary roots, then the zeros of the polynomial $p(p(x))$ are

- a. only real numbers
- b. only purely imaginary numbers**
- c. only rational numbers
- d. only complex numbers of the form $a+ib$ with $a \neq 0$ and $b \neq 0$

48) In a triangle ABC, D and E divide the sides BC and CA in the ratio 2:1 respectively. If P is the point of intersection of AD and BE then the ratio in which P divides AD is..

- a. 2:1
- b. 3:4
- c. 4:3**
- d. 1:2

49) If the incentre and the circumcentre of the triangle formed by the lines $x=2$, $4x+3y+7=0$ and I and S respectively, then IS=

- a. 5**
- b. $\sqrt{5}$
- c. $4\sqrt{2}$
- d. $2\sqrt{5}$

50) The equation $x^2 - y^2 + ax + b = 0$ represents a pair of lines for the ordered pair (a,b)=

- a. (2,6)**
- b. (3,4)
- c. (4,8)
- d. (6,9)

PHYSICS

51) SI unit of the magnetic field is _____.

- a. Dyne
- b. Ohm
- c. Tesla
- d. Volt**

52) Magnetic field at any point inside the straight solenoid is given as _____

- a. $B = \mu_0 n I$
- b. $B = \mu_0 n + I$
- c. $B = \mu_0 n I$
- d. $B = \mu_0 n I$**

53) When the charged particles move in a combined magnetic and electric field, then the force acting is known as _____.

- a. Centripetal force**
- b. centrifugal force
- c. Lorentz force
- d. Orbital force

54) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.

- a. Heavy body
- b. Light body**
- c. Both
- d. None of the options

55) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

- a. True
- b. False**

56) Find the power if the work done is 20J per hour

- a. 100 W
- b. 200 W
- c. 20 W
- d. 500 W**

57) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

- a. 121.20 J**
- b. 147.15 J
- c. 227.31 J
- d. 182.21 J

58) If 2.2 kilowatt power is being transmitted at 44KV on a 20 ohm line, then power loss will be

- (a) 0.1 watt
- (b) 1.4 watt
- (c) 100 watt
- (d) 0.05 watt**

59) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta.

- a. Heavy body
- b. Light body**
- c. Both
- d. None of the options

60) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

- a. True
- b. False**

61) What is the power utilised when work of 1000 J is done in 2 seconds?

- a. 100 W
- b. 200 W
- c. 20 W**
- d. 500 W

62) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

- a. 121.20 J**
- b. 147.15 J
- c. 227.31 J
- d. 182.21 J

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63) The energy possessed by the body by virtue of its motion is known as?

- a. Chemical energy
- b. Thermal energy
- c. Potential energy
- d. Kinetic energy

64) Which one has higher kinetic energy? Both light and heavy bodies have equal momenta

- a. Heavy body
- b. Light body
- c. Both
- d. None of the options

65) State true or false: According to Equivalence of Mass and Energy, it states that mass and energy are NOT interconvertible.

- a. True
- b. False

66) What is the power utilised when work of 1000 J is done in 2 seconds?

- a. 100 W
- b. 200 W
- c. 20 W
- d. 500 W

67) Find the potential energy stored in a ball of mass 5 kg placed at a height of 3 m above the ground.

- a. 121.20 J
- b. 147.15 J
- c. 227.31 J
- d. 182.21 J

68) Water is flowing with a velocity of 3m/s in a pipe of diameter 4 cm. This water enters another tube of diameter 2 cm. The velocity of water in this tube is

- a) 12 m/s
- b) 6 m/s
- c) 3 m/s
- d) 1.5 m/s

69) The physical Quantity is

- a. Mass
- b. Time
- c. Solid angle
- d. Luminosity



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70) The symbol to represent "Amount of Substance" is _____

- a. K
- b. A
- c. Cd
- d. Mol

71) among the following is the Supplementary Unit _____

- a. Mass
- b. Time
- c. Solid angle
- d. Luminosity

72) symbol to represent "Amount of Substance" is _____

- a. K
- b. A
- c. Cd
- d. mol

73) Farad is the unit of _____

- a. Luminosity
- b. Wavelength
- c. Permittivity
- d. Inertia

74) Dimensions of kinetic energy is the same as that of _____

- a. Acceleration
- b. Velocity
- c. Work
- d. Force.

75) AU is the unit of _____

- a. Astronomy Unit
- b. Astronomical unit
- c. Astrological Unit
- d. Archaeological Unit

76) Give an example of motion in two dimensions _____

- a. Motion along a straight line in any direction
- b. Bird flying
- c. A flying kite
- d. Projectile motion

77) Motion in a plane is called _____

- a. Motion in one dimension
- b. Motion in two dimensions
- c. Motion in three dimensions
- d. Motion in four dimensions

78) Uniform circular motion is given by the formula _____

- a. $V = u + at$
- b. $v^2 = u^2 + 2as$
- c. $V = U = A$
- d. none

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79) Find the general solution of: $ax^2 + bx + c$

A. $\sin^{-1} y = x + c$

B. $\sin^{-1} y/2 = x + c$

C. $\sin^{-1} y^2 = x + c$

D. None of the above

80) Hydraulic brakes work on the principal of

(a) Pascal's Law

(b) Thomson's Law

(c) Newton's Law

(d) Bernoulli's Theorem

CHEMISTRY

81) If liquids A and B form an ideal solution

(a) The entropy of mixing is zero

(b) The free energy of mixing is zero

(c) The free energy as well as the entropy of mixing

(d) The free energy mixing is maximum

82) For an ideal gas, C_V and C_P are related as :

(a) $C_V - C_P = R$

(b) $C_V + C_P = R$

(c) $C_P - C_V = RT$

(d) $C_P - C_V = R$

83) Gases deviate from ideal behaviour because molecules _____

(a) are colourless

(b) are spherical

(c) attract each other

(d) have high speeds

84) Which of the following molecules have trigonal planar geometry?



85) The elements with atomic numbers 9, 17, 35, 53, 85 are all _____

(a) halogens

(b) noble gases

(c) alkali earth metals

(d) transition metals



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86) Isotopes of an element have _____

(a) Different chemical and physical properties

(b) Similar chemical and physical properties

(c) Similar chemical but different physical properties

(d) Similar physical but different chemical properties

87) The radius of an atomic nucleus is of the order of _____

(a) 10^{-10} cm

(b) 10^{-13} cm

(c) 10^{-15} cm

(d) 10^{-8} cm

88) The significant figures in 0.00051 are _____.

(a) 5

(b) 3

(c) 2

(d) 26

89) A pure substance which contains only one type of atom is called _____.

(a) An element

(b) a compound

(c) a solid

(d) a liquid

90) Which of the following statements concerning transuranium elements is incorrect?

(a) Atomic number > 92

(b) Example is Thorium

(c) Decay radioactively as they are unstable

(d) Elements after Uranium

91) When copper chips are exposed to concentrated nitric acid, which gas is produced?

(a) Nitrogen (III) oxide

(b) Nitrogen (IV) oxide

(c) Nitrogen (I) oxide

(d) Nitrogen (II) oxide

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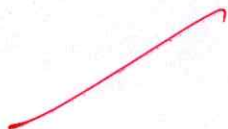


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92) What happens to the size of atoms in p-block elements when we move from left to right in the same period?

- a) Size does not change
- b) Size increases then decreases
- c) Size increases
- d) Size decreases



93) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 20 minutes



94) Only a simple homogeneous reaction requires which of the following methods?

- a) Integration method
- b) Half-life period method
- c) Graphical method
- d) Ostwald's isolation method

95) What effect does temperature have on the half-life of a first-order reaction?

- a) It increases
- b) It decreases
- c) It remains the same
- d) Both increases as well as decrease



96) In 30 minutes, a first-order reaction is 50% complete. Calculate the amount of time it took to complete 87.5 percent of the reaction.

- a) 30 minutes
- b) 60 minutes
- c) 90 minutes
- d) 20 minutes



97) The heat of solution or mixing has a negative side.

- a) Heat of solution
- b) Heat of dissolution
- c) Heat of reaction
- d) Heat of mixing



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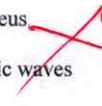
98) When two perfect solutions with volume V each are combined, What is the volume of the solution as a result?

- a) V
- b) 2V
- c) Greater than 2V
- d) Less than 2V



99) The electrons of Rutherford's model would be expected to lose energy because

- a. They jump on the nucleus
- b. They move randomly
- c. Radiate electromagnetic waves
- d. Escape from the atom



100) Electrons in the atom are held to the nucleus by

- a. Nuclear Force
- b. Coulomb's Force
- c. Gravitational Force
- d. Van Der Waal's Force



Principal

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AVANTHI FREESHIP STUDENTS ACADEMIC YEAR 2022-2023:

The following is the list of students 205 are selected from Avanathi Freeship Policy test conducted on 21-09-2022, 24-09-2022 and 12-10-2022. Based on the merit of the test results the fee concessions is given to the below students.

Freeship Test Marks:

S.No	Freeship No	Student Name	Marks
1	AVIH2022001	BAILADUGU SAI RAMA KRISHNA	82
2	AVIH2022002	BODDUPALLI HEMANTH KUMAR	85
3	AVIH2022003	BOPPU PAVAN	83
4	AVIH2022004	CHAVA VAMSHI	83
5	AVIH2022005	CHETTI HARISH GOUD	82
6	AVIH2022006	CHINNOLLA VINEEL	82
7	AVIH2022007	CHITTETI KEERTHI BHARGAVI	52
8	AVIH2022008	GADDAM SAHARIKA	84
9	AVIH2022009	GOPISETTI NIKITHA	82
10	AVIH2022010	GORLA PRANAY	82
11	AVIH2022011	GURRAM PAVANI	84
12	AVIH2022012	KANDATI VINAY REDDY	82
13	AVIH2022013	MADASTU KEERTHI	82
14	AVIH2022014	MAMILLA ARUN TEJA	81
15	AVIH2022015	MD KHALEEL	81
16	AVIH2022016	MIRAMPALLY NIKESH	84
17	AVIH2022017	MIRYALA SRILEKHA	85
18	AVIH2022018	MOHD ALTAF HUSSAIN	72
19	AVIH2022019	ORPULA SANTHOSH	81
20	AVIH2022020	PALLA VENKATA NARAYANA REDDY	73
21	AVIH2022021	PASULA KARTHIK	82
22	AVIH2022022	PATHIPAKALA ROHITH	85
23	AVIH2022023	PODHILA THIRUPATHI RAO	85
24	AVIH2022024	PONNAM AKSHAY	83
25	AVIH2022025	RANGU SHIVA	81
26	AVIH2022026	VEERAMUSTI BHARATH	82
27	AVIH2022027	VELMA SRIJA	72
28	AVIH2022028	RUPANI DINESH	82
29	AVIH2022029	BALUSU HEMANTH SAI	39
30	AVIH2022030	AADI SAI NITHYA	46
31	AVIH2022031	AVULA RAKESH	46


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32	AVIH2022032	BODA TEJA	39
33	AVIH2022033	GORLE TEJASRI	38
34	AVIH2022034	GOURAV RAJPUROHIT	46
35	AVIH2022035	AKULA RANJITH	46
36	AVIH2022036	AMIR KAMAL ANSARI	38
37	AVIH2022037	BODA PRIYANKA	46
38	AVIH2022038	BODIGE NITHIN KUMAR	52
39	AVIH2022039	BUCHAGARI NARESH	66
40	AVIH2022040	BULLI VIVEKANANDA REDDY	46
41	AVIH2022041	BURRA MANI VARDHAN	52
42	AVIH2022042	BUSHARAJU MALLIKA	38
43	AVIH2022043	DHARPALLY NITHIN SWAMY	38
44	AVIH2022044	ESALLA SPANDHANA	38
45	AVIH2022045	ESURAJU MAHESH	37
46	AVIH2022046	GADDAM SANJEEV YADAV	51
47	AVIH2022047	CHAKALI MANOBIRAM	46
48	AVIH2022048	GANTHALA AKHILA	36
49	AVIH2022049	GARAPATI PRASANNA	46
50	AVIH2022050	GUNDLA CHARANTEJ	45
51	AVIH2022051	KATHI KRISHNAVAMSHI	45
52	AVIH2022052	KONDI NAVYASREE	40
53	AVIH2022053	KUNATI SRINIDHI	36
54	AVIH2022054	L INDU	36
55	AVIH2022055	GOPAGANI UMESH	36
56	AVIH2022056	GUDABOINA AKASH	35
57	AVIH2022057	KADIPIKONDA MADHUMOHAN REDDY	35
58	AVIH2022058	KAMBALA ABHISHEK	38
59	AVIH2022059	KARNATI VARSHA	39
60	AVIH2022060	KASANI SHIVA SHANKAR	40
61	AVIH2022061	KASU DURGAPARAMESHWARI	58
62	AVIH2022062	SAURABH SINGH	81
63	AVIH2022063	KUNAPURI SRIVIDHYA	45
64	AVIH2022064	MANUR SAKETH	35
65	AVIH2022065	MUDOJU SHIVA KUMAR	45
66	AVIH2022066	MUKKERA JAIPAL REDDY	45
67	AVIH2022067	MERUGU BHARATH	36
68	AVIH2022068	PERKA NAVYA	46
69	AVIH2022069	PRONIT SARDAR	35
70	AVIH2022070	S SIRISHA RAO	35
71	AVIH2022071	SHYAMALA TEJA	42


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72	AVIH2022072	VENDRU LAKSHMITHULASI	46
73	AVIH2022073	MULKANOORI SAI PRIYA	46
74	AVIH2022074	NAMPELLY MANOJ	51
75	AVIH2022075	NIDHI KUMARI	51
76	AVIH2022076	PUJARI SOWMYA	42
77	AVIH2022077	PULLEMLA YASH NIKHIL	35
78	AVIH2022078	RADAS RAHUL VARMA	52
79	AVIH2022079	SAMALA BHANU PRASAD	35
80	AVIH2022080	SONDE TEJASWINI	42
81	AVIH2022081	SUNKARA SRINADH	41
82	AVIH2022082	SURAM ROHITH	38
83	AVIH2022083	T SRUJAN KUMAR REDDY	38
84	AVIH2022084	THADAKA BALAJI	36
85	AVIH2022085	THORPUNOORI VIVEK ADITHYA GOUD	66
86	AVIH2022086	VAKA UDAY CHANDRA	35
87	AVIH2022087	VANGA JEEVAN KUMAR	39
88	AVIH2022088	VARRE SAIGANITHA	38
89	AVIH2022089	YELISHETTI SHIVA	46
90	AVIH2022090	SRIPATHI PANDITHARADHYULA SNIGDHA	35
91	AVIH2022091	BODDUPALLI SAI BHARGAV	54
92	AVIH2022092	CHIKKULA SHIVA PRASAD	72
93	AVIH2022093	KAMPASATI NAVEEN	54
94	AVIH2022094	PANTHAM GANGADHAR	54
95	AVIH2022095	PASIKA KISHORE	69
96	AVIH2022096	RALLABANDI PRANEETH RAJU	69
97	AVIH2022097	UMMEDA ABHILASH	54
98	AVIH2022098	A SAINATH	68
99	AVIH2022099	MANDATI BHANUCHANDAR	82
100	AVIH2022100	BHEEMAGANI MANASA	69
101	AVIH2022101	BURAKALA ARUN	72
102	AVIH2022102	GADE HARIKRISHNA	68
103	AVIH2022103	MARRI RAHUL	38
104	AVIH2022104	MIRUDODDI MAHESH	42
105	AVIH2022105	MYLA VAGDEVI	38
106	AVIH2022106	NEERNEMULA SHIVA KUMAR	73
107	AVIH2022107	THORNALA NAVEEN REDDY	42
108	AVIH2022108	TORUPUNURI NAVEEN	76
109	AVIH2022109	VEDURU VENKAT REDDY	75
110	AVIH2022110	YARRABOINA GANESH	65

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111	AVIH2022111	GADDAM NIKHIL	65
112	AVIH2022112	ANDHEKAR KRANTHI KUMAR	50
113	AVIH2022113	MAMIDI SAIDEEP	73
114	AVIH2022114	ADITH SINGH	64
115	AVIH2022115	AVALA SRINIVAS	37
116	AVIH2022116	GODAVARTHI TEJASH CHOWDARY	64
117	AVIH2022117	KETHAM HARSHAVARDHAN	70
118	AVIH2022118	MARIKANTI GOPI	54
119	AVIH2022119	MEKALA AHALYA	46
120	AVIH2022120	PUTLURI MANI DEEP REDDY	48
121	AVIH2022121	YALAKA AISHWARYA	70
122	AVIH2022122	AMARAGANI LOKESH	70
123	AVIH2022123	BONALA MONEYSH	72
124	AVIH2022124	GUNDOJU PRADEEP CHARY	48
125	AVIH2022125	MADHIPATLA AKHILA	81
126	AVIH2022126	MOHAMMED NADEEM ANWAR	41
127	AVIH2022127	PATHAKUNTA PRABHAKAR REDDY	54
128	AVIH2022128	PATHKI TEJA	69
129	AVIH2022129	PILLI SHIRISHA	41
130	AVIH2022130	SURVI VIVEKANANDA GOUD	72
131	AVIH2022131	GOGINENI HARSHAVARDHAN	52
132	AVIH2022132	KOUDAGANI RAMYA	69
133	AVIH2022133	GUGULOTHU VISHNUVARDHAN	62
134	AVIH2022134	B DEVENDAR-8790553286	80
135	AVIH2022135	BHEEMREDDY SAKESTH REDDY	72
136	AVIH2022136	KUKKALA SRIVIDYA	81
137	AVIH2022137	MANDAVA POORNA SHANKAR	81
138	AVIH2022138	MODUGU SHASHIDHAR REDDY	72
139	AVIH2022139	PURWANTH MOUNIKA	81
140	AVIH2022140	RAGEERU TEJESHWAR GOUD	81
141	AVIH2022141	VUDUTHURI VENKATESHWAR REDDY	80
142	AVIH2022142	YALAGALA NUKAIAH	81
143	AVIH2022143	BAIRU SAITEJA	83
144	AVIH2022144	DOLAI SOUVIK	72
145	AVIH2022145	MALLELLI DEVENDAR GOUD	72
146	AVIH2022146	BURRA MANIDEEP	80
147	AVIH2022147	DERANGULA MOHAN SAI TEJA	72
148	AVIH2022148	GADDAM EEKSHITHA	83
149	AVIH2022149	GANGANAMONI SAI CHARAN	40
150	AVIH2022150	GURRALA NAGA SAI	82


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151	AVIH2022151	JANGILI TEJASWI	72
152	AVIH2022152	KOMMAVARAPU VISHNU KOWSIK	73
153	AVIH2022153	KONATHAM MAHESH REDDY	78
154	AVIH2022154	MALLAMPATI JASHWANTH	62
155	AVIH2022155	MANDALAPU GOWTHAM	37
156	AVIH2022156	MEDAGAM RAMYA	72
157	AVIH2022157	REGULA GIRISH KUMAR	72
158	AVIH2022158	VENNU SAI TEJA	69
159	AVIH2022159	VENKATA SWAMY PUPPALA	48
160	AVIH2022160	BARADI SAI KIRAN	71
161	AVIH2022161	BASANI PAVAN	62
162	AVIH2022162	GADE SRAVYA SRI	68
163	AVIH2022163	GOJJI SIDDHARTHA	70
164	AVIH2022164	GUNTOJU YASHWANTH	82
165	AVIH2022165	KAKULARAM ANAND REDDY	78
166	AVIH2022166	KANKANALA MANASA	71
167	AVIH2022167	MEDAGAM RAMANJI REDDY	70
168	AVIH2022168	PENNERU HARSHITHA	72
169	AVIH2022169	POLA SHANKER REDDY	71
170	AVIH2022170	S DATHA SHOURI	48
171	AVIH2022171	TALLAGADDA ABHINAV REDDY	70
172	AVIH2022172	TOTAKOORA LAKSHMI HARSHITHA	71
173	AVIH2022173	VAGGA ANAND	78
174	AVIH2022174	YELAGABOINA ABHINAYA SRI	80
175	AVIH2022175	MUTHYALA HARI PRASAD	60
176	AVIH2022176	D SHARATH CHANDRA GOUD	76
177	AVIH2022177	KANDULA RAJNIKANTH	82
178	AVIH2022178	U SHIVA	82
179	AVIH2022179	ALAKUNTLA BHARATH	75
180	AVIH2022180	PARSHAM KALYAN	84
181	AVIH2022181	PULIYALA RAGHAVENDRA REDDY	84
182	AVIH2022182	RAVULA PREMSAI	84
183	AVIH2022183	KOLLI SATYABAJI PAVAN KISHORE	81
184	AVIH2022184	DASARI AKHIL	72
185	AVIH2022185	PERIKA NITHIN	86
186	AVIH2022186	CHANDDRAGIRI NANDAKISHORE BABU	48
187	AVIH2022187	MANDALA POOJITHA	72
188	AVIH2022188	KANDAGATLA SATHYANARAYANA	69
189	AVIH2022189	DYVANPALLY SHIVA TEJA	82
190	AVIH2022190	GADDAM LAXMI TULASI	83


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191	AVIH2022191	HARIOM GUPTA	80
192	AVIH2022192	MADARAM MANASA	80
193	AVIH2022193	PEDAPATI NEEHARIKA	58
194	AVIH2022194	T MAHALAKSHMI	82
195	AVIH2022195	YELKAPALLY MANASA	85
196	AVIH2022196	GOLLA NAGARAJU	81
197	AVIH2022197	ARIGELA MANOJ	82
198	AVIH2022198	BANOTH SHIVAJI	84
199	AVIH2022199	GUNDU SANJEEV KUMAR	76
200	AVIH2022200	JARPULA MOUNIKA	82
201	AVIH2022201	SAI KRISHNA KORRI	82
202	AVIH2022202	SUNKARI PRAVEEN	83
203	AVIH2022203	THOTTETI DEVENDER	82
204	AVIH2022204	VAVILALA MAHESH	82
205	AVIH2022205	MUCHIKA CHAITANYA RANI	84


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Gunthapally,

Date: 02-11-2022.

From

The Principal,
Avanathi Institute of Engineering & Technology,
Gunthapally.

To

Chairperson
Governing Body (GB),
Avanathi Institute of Engineering & Technology,
Gunthapally.

Dear Sir/Madam

Sub: Request to sanction of Freeship Amount.


Reference: 1. Avanathi Freeship Internal Policy.

This is to inform you that Avanathi Institute of Engineering & Technology conducted an exam "Avanathi Freeship Policy Test" on 21-09-2022, 24-09-2022 and 12-10-2022 to the students who are willing to join in B category seats of first year B.Tech program for the academic year 2022-23. Based on their performance in the test, they were awarded marks and eligibility for Freeships in accordance with the rules and regulations of Freeship internal policy. I enclose the list of 205 students who are qualified in the test for your reference. In this regard, I request you to please forward this students list to the Governing Body for sanctioning the freeships amount for further proceedings.

The details are also enclosed for your consideration

Thanking you sir

Yours faithfully,


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AVANTHI FREESHIP STUDENTS ACADEMIC YEAR 2022-2023

The following is the list of students 205 are selected from Avanathi Freeship Policy Test. Based on the merit of the results the fee concession is given to the below students.

S.No	HallTicket No	Student Name	Amount
1	22Q61A0443	BAILADUGU SAI RAMA KRISHNA	35000
2	22Q61A0444	BODDUPALLI HEMANTH KUMAR	40000
3	22Q61A0445	BOPPU PAVAN	35000
4	22Q61A0446	CHAVA VAMSHI	35000
5	22Q61A0447	CHETTI HARISH GOUD	35000
6	22Q61A0448	CHINNOLLA VINEEL	35000
7	22Q61A0449	CHITTETI KEERTHI BHARGAVI	15000
8	22Q61A0450	GADDAM SAHARIKA	37500
9	22Q61A0451	GOPISHETTI NIKITHA	30000
10	22Q61A0452	GORLA PRANAY	35000
11	22Q61A0453	GURRAM PAVANI	37500
12	22Q61A0454	KANDATI VINAY REDDY	32500
13	22Q61A0455	MADASTU KEERTHI	30000
14	22Q61A0457	MAMILLA ARUN TEJA	35000
15	22Q61A0458	MD KHALEEL	35000
16	22Q61A0459	MIRAMPALLY NIKESH	40000
17	22Q61A0460	MIRYALA SRILEKHA	40000
18	22Q61A0485	MOHD ALTAF HUSSAIN	25000
19	22Q61A0486	ORPULA SANTHOSH	35000
20	22Q61A0487	PALLA VENKATA NARAYANA REDDY	25000
21	22Q61A0488	PASULA KARTHIK	35000
22	22Q61A0489	PATHIPAKALA ROHITH	40000
23	22Q61A0490	PODHILA THIRUPATHI RAO	40000
24	22Q61A0491	PONNAM AKSHAY	35000
25	22Q61A0492	RANGU SHIVA	35000
26	22Q61A0493	VEERAMUSTI BHARATH	35000
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54	22Q61A05B0	L INDU	2500
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56	22Q61A05B4	GUDABOINA AKASH	5000
57	22Q61A05B5	KADIPIKONDA MADHUMOHAN REDDY	5000
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59	22Q61A05B7	KARNATI VARSHA	5000
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2	21Q61A0540	CHETLAPALLY BHAVYA	10000
3	21Q61A0541	D UDAY KUMAR	12500
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14	21Q61A0553	DESHINI NISCHALA PRIYA	10000
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27	21Q61A05A6	KOTA KARTHIK	10000
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29	21Q61A05A8	MALLAVARAPU VARAPRASAD	10000
30	21Q61A05A9	MULI GUNASHEKAR REDDY	7000
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36	21Q61A05B5	P KAMAL	65000
37	21Q61A05B6	SHAIK HUSSAIN BASHA	15000
38	21Q61A05B8	T SRISHA	15000
39	21Q61A05B9	TATIPARTHI VINEETH REDDY	20000
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46	21Q61A05F6	BONDLA YAVAN TEJA	10000
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62	20Q61A0554	G V BHAVANA	20000
63	20Q61A0555	GADDAM KRISHNATEJA	5000
64	20Q61A0556	JANAGARI SRITHAN REDDY	5000
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66	20Q61A0558	KOMPELLI JALANDHAR	15000
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68	20Q61A0560	KOTHA LIKITH SAI REDDY	15000
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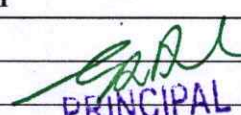
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79	20Q61A0599	SOMAGANI NAVYA	5000
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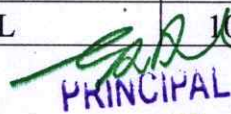
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416	21Q61E0052	BOBBALA SAMATHA	10000
417	21Q61E0053	MUDDU VENKATA SHIVA KUMAR	12500
418	21Q61E0054	SOWMYA MALKAJGIRI	15000
419	21Q61E0055	SOWMYA TADICHETTU	29000
420	21Q61E0056	BEJJAM KARUNAKAR	15000
421	21Q61E0057	MOHAMMAD AFIRID	15000
422	21Q61E0058	KARKOLA KALPANA	15000
423	21Q61E0059	G.SUNITHA	15000
424	21Q61E0060	G ANKITHA	15000
425	21Q61E00A3	B JEEVAN	15000
426	21Q61E00A4	E PAVANKALYAN	15000
427	21Q61E00A6	BADAM PAVAN KUMAR	7000
428	21Q61E00A7	MANAMALLA RAJESHWARI	15000
429	21Q61E00A8	MANAVALLA ARAVIND	15000
430	21Q61E00A9	DABBIKAR SOWMYA	15000
431	21Q61E00B0	BONKURI PRANAYA SRI	5000

PRINCIPAL

Avanathi Institute of Engg. & Tech

Gunthapally (V), Abdullapurmet (M), RR Dist, Near Ramoji Film City, Hyderabad -501512.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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432	21Q61E00B1	BEGAVI SAI KRISHNA	15000
433	21Q61E00B2	SHAIK RAWOOF	15000
434	21Q61E00B3	R THIRUMALESH	15000
435	21Q61E00B4	BANDARU SAI KUMAR	15000
436	21Q61E00B5	KADARI SHIVA PRASAD	15000
437	21Q61E00B6	A HARISH KUMAR	15000
438	21Q61E00B7	Parichi Atchyuth Balaramasarma	15000
439	21Q61E00B8	BUSHIGAMPALA LIKHITHA	15000
440	21Q61E00B9	RAGIPANI AKHIL CHARY	10000
441	21Q61E00C0	JUVERIA TABASSUM	15000
442	21Q61E00F8	MOHAMMED ANWARPASHA	15000
443	21Q61E00F9	KANDULA MAHANANDA REDDY	12500
444	21Q61E00G0	SK BABAR	15000
445	21Q61E00G1	YAMJALA BHAVANA	16000
446	21Q61E00G2	GANGANI MOUNIKA	15000
447	21Q61E00G3	NAGOJU LAXMI PRASANNA	10000
448	21Q61E00G5	YELLANKI SRIKANTH	15000
449	21Q61E00G6	GUNDLA DURGA	15000
450	21Q61E00G7	KESHAGONI JESHWANTH	15000
451	21Q61E00G8	TUSAMAD SANJANA	15000
452	21Q61E00G9	JILLA SRIDHAR	15000
453	21Q61E00H1	CH SHIVA SAI GUPTHA	15000
454	21Q61E00H2	KODIGANTI VIJAYA LAXMI	15000
455	21Q61E00H3	PEDDINTI SUSHMA REDDY	15000
456	21Q61E00H4	MUSKU PREETHI	15000
457	22Q61D5713	DARAM PRAVEEN	17000
458	22Q61D5805	KUPPARAJU PRANAVI	9500
459	22Q61D5806	MOHD AFZAL	17000
460	22Q61D5807	THUMMALA SANTHOSH	17000
461	22Q61D5808	VENKATESWARLU DUGGEMPUDI	57000
462	22Q61D5809	PALAPARTHI ALEKYA	14500
463	21Q61D5713	KASARAMONI KUMAR	17000
464	21Q61D5714	NELANTI PRIYANKA	17000
465	21Q61D5715	P ARUNA	17000
466	21Q61D5810	GURRALA SRI KANYA	57000
467	21Q61D5811	KOMPALLI NIKITHA	17000
468	21Q61D5812	PATTIPAKA HARIKA	27000
469	21Q61D5814	V SOWJANYA	9500
470	21Q61D0718	BODA HARIPRIYA	12000
471	21Q61D0720	DAYYALA LENINA	19500


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472	21Q61D0721	DONGRA SAI MADHAV	12000
473	21Q61D0722	RAVI ETTIMALLA	14500
474	22Q61A05C1	KOTE SRAVAN	70000
475	22Q61A05C6	MOHD SAIF UDDIN	70000

Total Students Count: 475

Total Amount: 99,58,500


PRINCIPAL
Avanathi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (M) R.R. Dist

Date:- 29/8/2023,
Gunturpally

To
The Director,
AVIH,
Gunturpally.

Sub:- Req. for fee concession

Respected Madam,

I Mohd Saif Uddin rolling no: 22061A05C6.
My father is working in this college as a placement officer
from last 7 years. please consider my fee concession in this regard.
please do the needful madam. My fee amount is 70,000 per year.

Thanking you madam

Yours faithfully,
Mohd Saif Uddin
22061A05C6.


PRINCIPAL
Avanthi Institute of Engg. & Tech
Gunturpally (V), Abdullapurmet (Mdl) R.R. Dist

Staff well
S

06-03-2023,
Monday.

TO
The principal sir,
AVIH,
Guntihapally,

Sub:- Requesting for fee Concession

Sir, I am Ch. Akhil from III-YY-21Q65A0412, AVIH, Sir,

I was not ready to pay fee to the dept. Because we are from Middle class family. My father not ready for that much fee, he was just a watchman, so please grant me Permission about fee Concession (30000).

Accepted
DJ

Thanking you sir,

Yours faithfully,
Ch. Akhil,
21Q61R50412,


PRINCIPAL
Avanthi Institute of Engg. & Tech
Guntihapally (V), Abdullapurmet (M), D. D. Dist

21/05/2023,
Hyderabad.

To.
Respected Principal Sir,

I am Jitta Raja Shekar (19061A0538)
IV Year. We are economically very poor
Sir. My father is a farmer last year
because of raining my field was damaged
so please give me a fee concession
Sir (8000)

Thanking you Sir

Yours faithfully

J. Raja Shekar

19061A0538

(AVS)

Accepted
✓


PRINCIPAL
Avanthi Institute of Engg. & Tech
Guntur (M. Abdullapuram)

10-3-2023

To,
Respected principal sir,
AVH
Guntahapally

I am Thimma Reddy maheshwara Reddy
(19061A0585) from IV YR, my mother is a
single she can't arrange the money to
pay fee (5000) please give me the concession.

Thanking you sir.

your's faithfully
19061A0585
maheshwara
AVH


PRINCIPAL

Avanthi Institute of Engg. & Tech
Guntahapally (V), Abdulacurmet (Mdl) R.R. Dist

Accepted
JS

10/3/23.

To

The principal,

AVIH,

Guntihapally.

Sub: Requesting for fee Concession

Respected sir,

I am C. Swetha from III year of AVIH

ROLL NO: 21Q65A0208. I am writing this letter to inform you about my fee concession of Rs - 33500/-.

Because my ~~bro~~ Sister got a marriage proposal. financially my family is in bad situation. As my father has to make marriage successfully. so please give me permission for fee concession.

Thanking you

yours faithfully

C. Swetha

21Q65A0208.



PRINCIPAL

Avanthi Institute of Engg. & Tech
Guntihapally (V), Abdullapurmet (Mdl) R.R. Dist

Accepted
SS

03-03-23

To

The Director Mam,

AVIH,
Guntthapally.

Sub: Requesting for fee Concession.

Respected mam,

I am G. Mahesh from III year

Roll NO: 20Q61A0209. I want fee Concession
of Rs. 25000/-. Because I have only one parent
i.e My mother. She was unable to take care
of my ^{family} financially as I have two Brothers to
look after. So please accept my request of
fee Concession.

Thanking you

Yours faithfully

G. Mahesh

20Q61A0209



PRINCIPAL

Avanthi Institute of Engg. & Tech
Guntthapally (V), Abdullapurmet (Mdl) R.R. Dist

Accepted


Requesting letter

10-march-2023,
Gunthapally,

To,
The Respected Sir,
AVIT,
Hyderabad.

Subject :- requesting for fee amount.

I am Kasaramoni Kumar from M.Tech 11 year
21Q61D5713. I am requesting for fee amount because of
family problems. so, please sir total due amount 17000/-
Requesting that fee amount. please, grant me permission.

Accepted
D

Thanking you



PRINCIPAL

Avanthi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Md) R.R. Dist

Your's lovingly,
Kasaramoni
Kumar,
M.Tech 11 year
21Q61D5713.

24/march/2023

J. SHIRISH

20Q61A0435

3rd year

To

The principal

AVTH

Guntihapally, Hyd

500000.

Subject :- Requested to give fee concession.

Respected sir,

I am J. SHIRISH of roll no. 20Q61A0435 studying 3rd year.

Requested to give fee concession of RS. 15000/- as my mother hand is fractured and she is hospitalised and there is no money to pay fee as the family income is very less.

Accepted
[Signature]

Thank you

[Signature]

PRINCIPAL

Avanthi Institute of Engg. & Tech
Guntihapally (V), Abdullapurmet (Mdl) R.R. Dist

yours truly,

J. Shirish,

20Q61A0435,

Requesting Letter

From:-

Guntihapally,

Date:- March/29/2023

To

The principal,

AVIT,

Guntihapally,
Hyderabad.

Sub:- Requesting for Concession fee

This is M. Raju from 11 year Roll no:- 202265A0227 I am unable to college fee so. due to I am a orphan children so I am staying in the orphanage. I am unable to college fee 3000/-

Thank you

Yours faithfully

M. Raju

11 year

202265A0227


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Gunthapally,

Date: 09-11-2023.

To

The Governing Body (GB),
Avanathi Institute of Engineering & Technology,
Gunthapally.

Sub:Letter of request sanction of Merit Scholarship amount from college budget.

Reference: 1. Avanathi Freeship Internal Policy.


Dear Sir/Madam

This is to request you please sanction amount of Rs. 1,28,000 (One lakh twenty eight thousand Rupees) for 32 students into the college budget for the academic year 2022-23.

The details are also enclosed for your consideration

Thanking you sir

Yours faithfully,


PRINCIPAL
Avanathi Institute of Engg. & Tech
Guntihapally (V), Abdullapurmet (Mdl) R.R.Dist



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Merit Scholarship Students List with Amount Academic Year: 2022-2023

The following is the list of students 32 are selected from Avanathi Freeship Policy. As per the merit the academic toppers are selected and given among them will receive prizes, with the first topper awarded Rs. 5000 and the second topper receiving Rs. 3000.

S.No	Branch	Year	HALLTICKET	STUDENT NAME	MERIT	AMOUNT
1	CSE	II	21Q61A0564	JEREDDY MANOJ KUMARREDDY	I	5000
2	CSE	II	21Q61A05D0	SHERI SHIVAJI	II	3000
3	CSM	II	21Q61A6601	AKULA SINDHU	I	5000
4	CSM	II	21Q61A6612	GOLI THARUN	II	3000
5	CSD	II	21Q61A6708	BHUKYA AJAY KUMAR	I	5000
6	CSD	II	21Q61A6720	GALVA ARCHANA	II	3000
7	ECE	II	21Q61A0423	KATRAVATH RAJESH	I	5000
8	ECE	II	22Q65A0404	JAKKULA BHAVISHYA	II	3000
9	EEE	II	22Q65A0201	GADAM SRUTHI	I	5000
10	EEE	II	21Q61A0206	JAMMALA VIJAY KUMAR	II	3000
11	MECH	II	21Q61A0302	MANDULA NAVEEN	I	5000
12	MECH	II	21Q61A0305	ALAKUNTLA BHARATH	II	3000
13	CSE	III	20Q61A0510	BETHAPUDI SRIJA	I	5000
14	CSE	III	20Q61A0581	TIRUMALA ABHIRAMACHARY	II	3000
15	CSM	III	20Q61A6616	PARUPALLY GIRIJA	I	5000
16	CSM	III	20Q61A6623	CHINTHAKINDI MURARI	II	3000
17	CSD	III	20Q61A6704	M JYOTHI	I	5000
18	CSD	III	20Q61A6706	GOUTE AKHILA	II	3000
19	ECE	III	20Q61A0431	YERRA MOUNIKA	I	5000
20	ECE	III	21Q65A0403	GUMMADI SAHASRA	II	3000
21	EEE	III	21Q65A0201	BEERLA SAI DEEKSHITHA	I	5000
22	EEE	III	21Q65A0205	MAISA DEEPIKA	II	3000
23	MECH	III	21Q65A0304	SEETHA SINDHU	I	5000
24	MECH	III	20Q61A0303	S SHIVAJI	II	3000
25	CSE	IV	19Q61A05B1	POLASA LIKITHHA	I	5000

PRINCIPAL

Avanathi Institute of Engg. & Tech

Gunthapally (V), Abdullapurmet (M), R.R. Dist

Avanathi Institute of Engineering and Technology



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26	CSE	IV	19Q61A0595	PUNNA SAI MOUNIKA	II	3000
27	ECE	IV	19Q61A0440	PEESU ALEKYA	I	5000
28	ECE	IV	19Q61A0401	AITHA SWAMYNATH	II	3000
29	EEE	IV	19Q61A0209	KORRA NAVEEN	I	5000
30	EEE	IV	19Q61A0206	J PRAVEEN KUMAR PATEL	II	3000
31	MECH	IV	19Q61A0308	JINNA SRINIVAS	I	5000
32	MECH	IV	19Q61A0303	KOTHUR THARUN	II	3000

Total Students Count: 32

Total Amount: Rs. 1,28,000


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Avanathi Institute of Engg. & Tech
Gunthapally (V), Abdullapurmet (Mdl) R.R.Dist