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PGT (Physics)
13 Sept, 2023 Shift 1



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QUESTION PAPER Uchcha Madhyamic Physics [SHIFT - 1]

Exam Date : 13/09/2023	Time : 03:00 PM - 05:30 PM
Subject Name : Physics	Subject Code : 214
Subject Question	
Question 1	Question Id : 1
which of the following is the SI unit of electric flux?	Question iu . I
Answer:	Option Id
(A) Weber	1001
(B) Volt /meter	1002
(C) Vm	1003
(D) Nm	1004
Right Answer: Vm	Right Option Id : 1003
Question 2	Question Id : 55
A partical of mass m and fixed kinetic energy K is moving in a circle. The magnitude of its average velocity over a half-cycle is	Question iu . 55
Answer:	Option Id
(A) 1	55001
$\left(\frac{8k}{\pi^2}m\right)^{\frac{7}{2}}$	
(B) $\frac{2}{\pi} \left(\frac{k}{m}\right)^{\frac{1}{2}}$	55002
	55003
$(2k/2)^{\frac{1}{2}}$ (D) None of these	55004
Right Answer:	Right Option Id : 55001
$\left(rac{8k}{\pi^2}m ight)^{rac{1}{2}}$	
Question 3	Question Id : 54
The mass of the bob of a simple pendulum is m. At the lower point, the bob is given such a horizontal velocity that is undergo	es vertical circular motions.
The difference between tension force in the string will be Answer:	Option Id
(A) 4mg	54001
(A) 4mg	54001
(C) 6mg	54003
(D) None of these	54004
	3.331
Right Answer: 6mg	Right Option Id : 54003
Question 4	Question Id : 53
The mass of an inhomogeneous ring of radius R is M. At a point in its axis, at distance x from its centre, Answer:	Option Id
	·
The gravitational potential is – GM/ $(r^2 + x^2)^{\frac{1}{2}}$	53001
(B)	53002
the magnitude of gravitational field intensity is ${\rm Gmx}/(r^2+x^2)\frac{1}{2}$	
(C) the gravitional potential is – GM/de	53003
(D) None of these	53004
Right Answer:	Right Option Id : 53001
The gravitational potential is – $GM/(r^2 + x^2)^{\frac{1}{2}}$	





Question 5 The distance between the centres of the Earth and its satellite is d, and the masses of the Earth and to mass be at rest, the orbital speed of the satellite will be Answer: (A) $M\sqrt{\frac{6}{(M+m)d}}$ (B) $\sqrt{\frac{6M}{d}}$ (C) $m\sqrt{\frac{6}{(M+m)d}}$ (D) None of these Right Answer: $M\sqrt{\frac{6}{(M+m)d}}$	Question Id: 52 the satellite are M and m, respectively. If their centre of Option Id 52001 52002 52003 52004 Right Option Id: 52001
Question 6 A torque τ is applied about the axis of a cylinder for a time interval of t. the mass and the radius of t velocity produced will be Answer: (A) $2\tau t/MR^2$ (B) $2\tau t/MR^2$	Question Id: 51 he cylinder are M and R, respectively. The angular Option Id 51001 51002
(C) $2\tau T/MR^2$ (D) None of these Right Answer: $2\tau t/MR^2$	51003 51004 Right Option Id : 51001
Question 7 If the vector \overrightarrow{r} of a particle turns about the origin at an angular velocity $\overrightarrow{w}(\downarrow \overrightarrow{r})$ the velocity $\overrightarrow{\vartheta}$ of the particle is given by: Answer: (A) $\overrightarrow{\vartheta} = \overrightarrow{r} \times \overrightarrow{w}$ (B) $\overrightarrow{w} = \overrightarrow{r} \times \overrightarrow{v}$ (C) $\overrightarrow{w} = \overrightarrow{\vartheta}$ (D) None of these Right Answer: $\overrightarrow{w} = \overrightarrow{r} \times \overrightarrow{v}$	Option Id 50001 50002 50003 50004 Right Option Id : 50002
Question 8 Which of the following the expressions represents correctly the velocity of a particle moving in XY-particle form of the following the expressions represents correctly the velocity of a particle moving in XY-particle form of the following in XY-particle form	Question Id: 49 colane in terms of its generalized co-ordinates (r,Θ)? Option Id 49001 49002 49003 49004 Right Option Id: 49001

Question 9

Select the incorrect statement :

Answer :

Question Id: 48

Option Id





(A) If the Lagrangian L is explicit function of time, the Hamiltonian is equal to total energy (B) .The relationship between generalized momentum p is $q^{\circ} = \partial H/\partial p$ (C) The rate of change of generalized momentum is $(-\partial H/\partial q)$ (D) Action is the time -integral of Lagrangian Right Answer: If the Lagrangian L is explicit function of time, the Hamiltonian is equal to total energy	48001 48002 48003 48004 Right Option Id : 48001
Question 10 Select the incorrect statement: Answer: (A) The speed of light in a vaccum has the same value in all the inertial frames (B) Neither mass nor energy is conserved, but ,mass-energy is conserved (C) In different inertial frames, neither time interval nor space interval remains the same, but the square of the interval of space time remains the same (D) If a cube moves in a direction normal to its one face, all the 12 sides of the cube get contracted Right Answer: If a cube moves in a direction normal to its one face, all the 12 sides of the cube get contracted	Option Id : 47 Option Id
Question 11 The modulus of elasticity is dimensionally equivalent to: Answer: (A) Strain (B) Surface tension (C) stress (D) Poisson's ratio Right Answer: stress	Option Id : 46001
Question 12 If there is no change in the volume off wire due to change in its length on stretching, the Poisson's ratio of material of wire is: Answer: (A) -0.5 (B) 0.5 (C) -0.25 (D) 0.25 Right Answer: -0.5	Option Id : 45 Option Id 45001 45002 45003 45004 Right Option Id : 45001
Question 13 The Young's modulus for a plastic body is: Answer: (A) less than 1 (B) 0 (C) 1 (D) Infinity Right Answer: 0	Option Id : 44 Option Id 44001 44002 44003 44004 Right Option Id : 44002
Question 14 A liquid has only: Answer: (A) Bulk modulus	Question Id : 43 Option Id 43001





(B) Youngs modulus (C) Shear modulus (D) All of the above	43002 43003 43004
Right Answer : Bulk modulus	Right Option Id : 43001
Question 15 What do we call the maximum velocity of a fluid in a tube for which the flow remains streamlined? Answer: (A) Lamellar velocity (B) critical velocity (C) Streamlined velocity (D) Hyper velocity Right Answer: critical velocity	Option Id : 42 Option Id 42001 42002 42003 42004 Right Option Id : 42002
Question 16 Bernoulli's theorem deals with the principles of: Answer: (A) Energy (B) Force (C) Mass (D) Momentum	Option Id : 41 Option Id 41001 41002 41003 41004
Right Answer: Energy	Right Option Id : 41001
Question 17 When is a fluid called turbulent? Answer: (A) High viscosity of fluid (B) Reynolds number is greater than 2000 (C) Reynolds number is less than 2000 (D) The density of the fluid is low Right Answer: Reynolds number is less than 2000	Option Id : 56 Option Id
Question 18 An iron needle floats on the surface of water. This phenomenon is attributed to: Answer: (A) Upthrust of liquid (B) Surface tension (C) Gravitational force (D) Nuclear force Right Answer: Surface tension	Option Id 57001 57002 57004 Right Option Id : 57002
Question 19 Work done in increasing the size of a soap bubble from a radius of 3 cm to 5 cm is nearly (Surface tension of soap Answer: (A) 4π mJ (B) 2π mJ (C) 0.4π mJ	Question Id : 58 p solution =0.03 Nm ⁻¹): Option Id 58001 58002 58003



All of the mentioned



^(D) π mJ	58004
Right Answer:	Right Option Id : 58003
0.4π mJ	д ор пол та осоос
Question 20 With rise in temperature, the liquid height in a capillary will: Answer: (A) Increase (B) Decrease (C) Remain constant (D) First decrease then increase Right Answer: Decrease Question 21 The Zeroth law of thermodynamics based on which parameter? Answer:	Question Id : 67 Option Id 67001 67002 67003 67004 Right Option Id : 67002 Question Id : 73 Option Id
(A) Temperature	73001
(B) Pressure	73002
(C) Density (D) Velocity	73003 73004
Right Answer: Temperature	Right Option Id : 73001
Question 22 "When two body are in thermal equilibrium with the third body, then they all are also in thermal equilibrium with each oth Answer: (A) Second law of thermodynamics (B) Third law of thermodynamics (C) First law of thermodynamics (D) Zeroth law of thermodynamics Right Answer: First law of thermodynamics	Question Id : 72 er". This statement by which law? Option Id 72001 72002 72003 72004 Right Option Id : 72003
Question 23	Question Id : 71
Which of the following occurs without a change in the internal energy? Answer: (A) Isochoric process (B) Isobaric process (C) Steady-state process (D) Isothermal process Right Answer: Isobaric process	Option Id 71001 71002 71003 71004 Right Option Id: 71002
Question 24	Question Id: 70
Which of the following follows the Carnot theorem?	Ontion Id
Answer: (A) Heat engines	Option Id 70001
(B) Gas turbine engines	70002
(C) Gas compressors	70003
(D) All of the mentioned	70004
Right Answer:	Right Option Id : 70004





Question 25 The enthalpy and internal energy are the function of temperature for: Answer:	Question Id : 69 Option Id
(A) all gases (B) steam (C) water	69001 69002 69003
(D) ideal gas	69004
Right Answer : ideal gas	Right Option Id : 69004
Question 26 Which of the following is true according to Clausius statement?	Question Id: 68
Answer: (A) it is possible to construct a device that can transfer heat from a cooler body to a hotter body without any effect	Option Id 68001
(B) it is impossible to construct a device that can transfer heat from a cooler body to a hotter body without any effect	68002
(C) it is impossible to construct a device that can transfer heat from a hotter body to a cooler body without any effect (D) none of the mentioned	68003 68004
Right Answer: it is impossible to construct a device that can transfer heat from a cooler body to a hotter body without any effect	Right Option Id : 68002
Question 27	Question Id: 66
If a system undergoes a reversible isothermal process without transfer of heat, the temperature at which this process takes particles and the temperature at which this process takes particles are system undergoes a reversible isothermal process without transfer of heat, the temperature at which this process takes particles are system undergoes a reversible isothermal process without transfer of heat, the temperature at which this process takes particles are system undergoes as the system undergoes are system.	olace is called Option Id
(A) triple point of water	66001
(B) boiling point of water	66002
(C) absolute zero (D) none of the mentioned	66003
(D) none of the mentioned	66004
Right Answer : absolute zero	Right Option Id : 66003
Question 28 Which of the following thermodynamic law gives the concept of entropy?	Question Id : 59
Which of the following thermodynamic law gives the concept of entropy? Answer:	Option Id
Which of the following thermodynamic law gives the concept of entropy?	Option Id 59001
Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics	Option Id
Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics (B) Second law of thermodynamics	Option Id 59001 59002
Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics (B) Second law of thermodynamics (C) Third law of thermodynamics	Option Id
Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics (B) Second law of thermodynamics (C) Third law of thermodynamics (D) Zeroth law of thermodynamics Right Answer: Second law of thermodynamics	Option Id
Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics (B) Second law of thermodynamics (C) Third law of thermodynamics (D) Zeroth law of thermodynamics Right Answer: Second law of thermodynamics	Option Id
Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics (B) Second law of thermodynamics (C) Third law of thermodynamics (D) Zeroth law of thermodynamics Right Answer: Second law of thermodynamics	Option Id
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Which of the following thermodynamic law gives the concept of entropy? Answer: (A) First law of thermodynamics (B) Second law of thermodynamics (C) Third law of thermodynamics (D) Zeroth law of thermodynamics Right Answer: Second law of thermodynamics Question 29 Kelvin planks law of thermodynamics deals with: Answer: (A) Conservation of work (B) Conservation of heat (C) Conversion of heat into work	Option Id
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Question 30 The efficiency of a Carnot engine is 20%. The efficiency is increased to 30% when the sink temperature is reduced by 25	Question Id : 64 6°C. What will be the source
temperature?	Ontion Id
Answer:	Option Id
(A) 200°C	64001
(B) 450°C	64002
(C) 300°C	64003
(D) 250°C	64004
Right Answer : 250°C	Right Option Id : 64004
Question 31	Question Id: 63
If the two particles performing S.H.M. with same amplitude and initial phase angle then initial phase angle of resu	
Answer:	Option Id
(A) initial phase angle only	63001
(B) initial phase angle and amplitude	63002
(C) amplitude of individual only	63003
(D) neither amplitude nor initial phase angle	63004
Right Answer: initial phase angle only	Right Option Id : 63001
Question 32 The motion in which a body moves from one place to another with respect to time is called as	Question ld : 62
Answer:	Option Id
(A) vibrational motion	62001
(B) rotational motion	62002
(C) circular motion	62003
(D) translational motion	62004
	02331
Right Answer:	Right Option Id : 62004
translational motion	•
Question 33	Question Id : 61
A motion which repeats itself in equal interval of time is called as	
Answer:	Option Id
(A) periodic motion	61001
(B) circular motion	61002
(C) translational motion	61003
(D) rotational motion	61004
Right Answer:	Right Option Id : 61001
periodic motion	Right Option id . 61001
Question 34	Question Id: 60
If the particles of the medium vibrate about their mean positions at right angles to the direction of propagation of wav	e, the wave is said to
be	Ontion
Answer:	Option Id
(A) a transverse wave	60001
(B) a longitudinal wave	60002
(C) a stationary wave	60003
(D) a sound wave	60004
Right Answer:	Right Option Id : 60001
a transverse wave	

Question 35 Question Id: 40

Which is a mathematical equation for a progressive wave?





Answer:	Option Id	
(A) $y = a \sin(kt - \omega x)$	40001	
(B) $y = a \sin(2\pi t - \lambda x)$	40002	
(C) $y = a \sin(\omega t - kx)$	40003	
(D) $y = a \sin(\lambda t - \phi)$	40004	
Right Answer:	Right Option Id: 40003	
$y = a \sin(\omega t - kx)$		
Question 36	Question Id: 39	
The distance between two consecutive nodes or antinodes is	Option Id	
(A) \(\lambda \)		
	39001	
(B) λ/4	39002	
(C) 2 λ	39003	
(D) $\lambda/2$	39004	
Right Answer:	Right Option Id: 39004	
λ/2		
Question 37 If an external periodic force is applied on an oscillator then it executes	Question Id: 38	
Answer:	Option Id	
(A) Undamped free oscillations	38001	
(B) Damped free oscillations	38001	
(C) Forced oscillations	38002	
(D) None of the above	38004	
(b) Notice of the above	38004	
Right Answer:	Right Option Id: 38003	
Forced oscillations	3	
1 of cea oscillations		
Torect oscillations		
Torted oscillations		
	Quarties Id : 27	
Question 38	Question Id : 37	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer:	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to	Option Id 37001	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to	Option Id 37001 37002	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to	Option Id 37001 37002 37003	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to	Option Id 37001 37002	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to	Option Id 37001 37002 37003	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of	Option Id 37001 37002 37003 37004	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer:	Option Id 37001 37002 37003 37004	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer:	Option Id 37001 37002 37003 37004	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer:	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	
Question 38 In steady state forced vibrations, the amplitude of vibrations at resonance isdamping coefficient. Answer: (A) equal to (B) directly proportional to (C) inversely proportional to (D) independent of Right Answer: inversely proportional to Question 39	Option Id	





(C) Doppler Effect (D) Seebeck Effect	16003 16004
Right Answer: Doppler Effect	Right Option Id : 16003
Question 41	Question ld : 15
If vector field $B = x^2 \hat{r} - xy\hat{r} - kxz\hat{k}$ represents a magnetic field then what is the value of k?	
Answer:	Option Id
(A) 0	15001
(B) 1	15002
(C) 2	15003
(D) 3	15004
Right Answer:	Right Option Id: 15002
Question 42 Capacitance (in F) of a spherical conductor of radius 1m is	Question Id : 14
Answer:	Option Id
(A) 1.1 x 10 ⁻¹⁰	14001
(B) 9 x 10 ⁻⁹	14002
(C) 9 x 10 ⁻⁶	14003
(D) 9 x 10 ⁻³	14004
Right Answer : 1.1 x 10 ⁻¹⁰	Right Option Id : 14001
Question 43	Question ld : 13
Three point charges +q, +2q and Q are placed at the three vertices of an equilateral triangle. What is the val	
zero? Answer :	Option Id
	13001
$(A)\frac{2q}{3}$	13001
$^{(B)}$ $\frac{-2q}{3}$	13002
(C) $\frac{4q}{3}$	13003
(D) $\frac{-2q}{3}$	13004
Right Answer:	Right Option Id : 13002
	-
$\frac{-2q}{3}$	
Question 44 Conservative nature of electric field means	Question Id : 12
Answer:	Option Id
(A) Curl is zero	12001
(B) Divergence is zero	12002
(C) Gradient is zero	12003
(D) None of them	12004
Pight Answer	Pight Ontion Id - 12001
Right Answer : Curl is zero	Right Option Id : 12001





Question 45	Question ld : 11
The correct relation between electric displacement D, electric field E and polarization P is	
Answer:	Option Id
(A) $E = \varepsilon 0D + P$	11001
(B) P=€0E+P	11002
(C) $D = \varepsilon 0E + P$	11003
(D) P=E+D	11004
Right Answer : $D = \varepsilon 0E + P$	Right Option Id : 11003
Question 46	Question Id: 10
The tangential component of electric field for a perfect conductor will be	
Answer:	Option Id
(A) Infinite	10001
(B) zero	10002
(C) same as normal component	10003
(D) none of them	10004
Right Answer:	Right Option Id: 10002
zero	
Question 47	Question Id : 9
A strong magnetic field B is applied to a stationary electron, then the electron will	
Answer:	Option Id
(A) move in the direction of B	9001
(B) move in the opposite direction of B	9002
(C) remain stationary	9003
(D) move perpendicular to B	9004
	3001
Right Answer:	Right Option Id : 9003
remain stationary	
Question 48	Question Id : 8
The value of magnetic field at a distance of 2 cm from a very long straight wire carrying a current of 5 A?	
Answer:	Option Id
(A) 5 x 10 ⁻⁵ T	8001
(B) 10 x 10 ⁻⁵ T	8002
(C) 5 x 10 ⁻⁴ T	8003
(D) 15 x 10 ⁻⁶ T	8004
Right Answer: 5 x 10 ⁻⁵ T	Right Option Id : 8001
Question 49	Question Id : 7
The law which states that the line integral of the magnetic field around a closed curve is equal to the free currer	
Answer:	Option Id
(A) Faradey's law	7001
(B) Gauss' law	7002
(C) Ampere's law	7003
(D) Coulomb's law	7004
	7004
Right Answer : Ampere's law	Right Option Id : 7003
Question 50	Question Id : 6
In order to minimize hysteresis loss, the magnetic material should have	
Answer:	Option Id
(A) High resistivity	6001





(B) Low hysteresis co-efficient	6002	
(C) Large B - H loop area	6003	
(D) High retentivity	6004	
Right Answer:	Right Option Id : 6002	
Low hysteresis co-efficient		
Question 51	Question Id: 5	
Which of the following is found using Lenz's law?	Question id . 5	
Answer:	Option Id	
(A) Induced emf	5001	
(B) Induced current	5002	
(C) The direction of induced emf	5003	
(D) The direction of alternating current	5004	
Right Answer:	Right Option Id: 5003	
The direction of induced emf	3 11,111	
Question 52	Question Id: 4	
The energy stored in a 70 mH inductor carrying a current of 5 A is	Question iu . 4	
Answer:	Option Id	
(A) 0.875 J	4001	
(B) 0.556 J	4002	
(C) 0.755 J	4003	
(D) 0.655 J	4004	
Right Answer:	Right Option Id : 4001	
0.875 J	Right Option id : 4001	
0.873 J		
	0 (1 11 2	
Question 53	Question Id: 3	
	Question id : 5	
The magnetic flux varies as per the relation $\varphi = 8 t2 + 6t + 2$	Question ia : 5	
The magnetic flux varies as per the relation φ = 8 t2 + 6t + 2 (where φ is in milliweber and t is in second).	Question ia : 3	
The magnetic flux varies as per the relation $\varphi = 8 t2 + 6t + 2$	Question ia : 3	
The magnetic flux varies as per the relation φ = 8 t2 + 6t + 2 (where φ is in milliweber and t is in second). What is the magnitude of induced emf in the loop at t=2 seconds?		
The magnetic flux varies as per the relation ϕ = 8 t2 + 6t + 2 (where ϕ is in milliweber and t is in second). What is the magnitude of induced emf in the loop at t=2 seconds? Answer:	Option Id	
The magnetic flux varies as per the relation ϕ = 8 t2 + 6t + 2 (where ϕ is in milliweber and t is in second). What is the magnitude of induced emf in the loop at t=2 seconds? Answer: (A) 40 mV	Option Id 3001	
The magnetic flux varies as per the relation ϕ = 8 t2 + 6t + 2 (where ϕ is in milliweber and t is in second). What is the magnitude of induced emf in the loop at t=2 seconds? Answer: (A) 40 mV (B) 36 mV	Option Id 3001 3002	
The magnetic flux varies as per the relation ϕ = 8 t2 + 6t + 2 (where ϕ is in milliweber and t is in second). What is the magnitude of induced emf in the loop at t=2 seconds? Answer: (A) 40 mV	Option Id 3001	
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The magnetic flux varies as per the relation $\varphi = 8 \ t2 + 6t + 2$ (where φ is in milliweber and t is in second). What is the magnitude of induced emf in the loop at t=2 seconds? Answer: (A) 40 mV (B) 36 mV (C) 38 mV (D) 42 mV Right Answer: 38 mV Question 54 A magnet is brought towards a coil first (i) speedily (ii) slowly. It can be concluded that the induced emf will be: Answer: (A) smaller in case (i) (B) equal in both cases (C) larger in case (i) (D) None of them equal in both cases Right Answer: larger in case (i)	Option Id	
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(C) 1.1 c	2003
(D) 1.5 c	2004
Right Answer: 0.77 c	Right Option Id : 2002
0.77 C	
Question 56	Question Id: 19
The Maxwell's first equation is obtained from Answer:	Option Id
(A) Coulomb's law	
• •	19001
(B) Gauss Law	19002
(C) Ampere's Law	19003
(D) Faraday's Law	19004
Right Answer:	Right Option Id : 19002
Gauss Law	
Overting 57	Overster 11, 24
Question 57 The directions of the propagation vector k and the Poynting vector S for an electromagnetic wave are	Question Id : 21
The directions of the propagation vector k and the Poynting vector S for an electromagnetic wave are Answer:	Option Id
(A) parallel to each other	21001
(B) anti-parallel to each-other	
(C) normal to each other	21002
	21003
(D) any other angle	21004
Right Answer:	Right Option Id : 21001
parallel to each other	Right Option id : 21001
	Overthern I.d., 20
Question 58	Ullestion id : 3h
Question 58 The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is	Question Id: 36
Question 58 The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer:	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer:	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0	Option Id 36001
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1	Option Id 36001 36002
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1	Option Id 36001 36002 36003
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1	Option Id 36001 36002
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1	Option Id 36001 36002 36003
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The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer:	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s	Option Id
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The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ / m/s (C) 1.5 x 10 ⁸ m/s	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ / m/s	Option Id
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The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 108 m/s (B) 2 x 108/ m/s (C) 1.5 x 108 m/s (D) 2.5 x 108 m/s Right Answer: 1.5 x 108 m/s Question 60	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300 , then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ / m/s (C) 1.5 x 10 ⁸ m/s (D) 2.5 x 10 ⁸ m/s Right Answer: 1.5 x 10 ⁸ m/s Question 60 When light passes (with normal incidence) from air (n1=1) into glass (n2=1.5), the reflection coefficient is	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ / m/s (C) 1.5 x 10 ⁸ m/s (D) 2.5 x 10 ⁸ m/s Right Answer: 1.5 x 10 ⁸ m/s Question 60 When light passes (with normal incidence) from air (n1=1) into glass (n2=1.5), the reflection coefficient is Answer:	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300 , then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ / m/s (C) 1.5 x 10 ⁸ m/s (D) 2.5 x 10 ⁸ m/s Right Answer: 1.5 x 10 ⁸ m/s Question 60 When light passes (with normal incidence) from air (n1=1) into glass (n2=1.5), the reflection coefficient is Answer: (A) R=0	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ m/s (C) 1.5 x 10 ⁸ m/s (D) 2.5 x 10 ⁸ m/s Right Answer: 1.5 x 10 ⁸ m/s Question 60 When light passes (with normal incidence) from air (n1=1) into glass (n2=1.5), the reflection coefficient is Answer: (A) R=0 (B) R=0.04	Option Id
The reflection coefficient in the wave propagation when it is transmitted with the Brewster angle is Answer: (A) 0 (B) 1 (C) -1 (D) infinite Right Answer: 0 Question 59 If the critical angle for total internal reflection from a medium to vacuum is 300, then the speed of light in the medium is Answer: (A) 1 x 10 ⁸ m/s (B) 2 x 10 ⁸ m/s (C) 1.5 x 10 ⁸ m/s (D) 2.5 x 10 ⁸ m/s Right Answer: 1.5 x 10 ⁸ m/s Question 60 When light passes (with normal incidence) from air (n1=1) into glass (n2=1.5), the reflection coefficient is Answer: (A) R=0	Option Id





Right Answer:	Right Option Id: 34002
R=0.04	
Question 61	Question Id: 33
The time constant of an inductive coil is 2.5 x 10 ⁻³ second. When 80 ohm resistance is added in ser	les the time constant reduces to 0.5 x 10 ⁻³ second , the
resistance of the coil is ? Answer:	Option Id
(A) 200 ohm	33001
(B) 20 ohm	33002
(C) 50 ohm	33003
(D) None	33004
Right Answer: 20 ohm	Right Option Id: 33002
Question 62 A coil of inductauce 50H and resistance 30 ohm is connected to a 100 V Battery . How long will its Answer :	Question Id : 32 take the currrent to grow one half of its final value? Option Id
(A) 2.15 sec	32001
(B) 4.50 sec	32002
(C) 1.15 sec	32003
(D) 0.15 sec	32004
(5)	32004
Right Answer:	Right Option Id : 32003
1.15 sec	,
Question 63 A battery of 6 V and internal resistance of 0.5 ohm is joined in parallel with another battery of 10 V current through an external resistance of 12 ohm . If I ₁ and I ₂ be the currents given by two batterie	
I_2	
Answer:	Option Id
(A) I ₁ =-2.27A , I ₂ =2.865 A	31001
(B) I ₁ = 2.865 A I _{2 =} 2.27A	31002
(C) I ₁ =6A , I ₂ =10 A	31003
(D) None of these.	31004
Right Answer:	Right Option Id: 31001
I ₁ =-2.27A , I ₂ =2.865 A	
Question 64	Question Id: 30
What resistance Must be connected in series with ar inductor of 5 millihenry so that the circuit has	
Answer:	Option Id
(A) 2.5 ohm	30001
(B) 4 ohm	30002
(C) 7.5 ohm	30003
(D) None	30004
	5555
Right Answer:	Right Option Id : 30001
2.5 ohm	

Question 65 Question Id: 29

A resistor of 12 ohm, a capacitor of reactance 14 ohm and pure inductor of inductance 0.1 H are joined in series and placed across 200 V , 50 HZ Ac supply then what will be the current in the circuit and tan \emptyset , where \emptyset is the phase angle between current and voltage. choose the correct option (take π =3)

Answer: Option Id





(A) $I=10 \text{ A} \text{ and } \tan \emptyset = 3/4$	29001
(B) I = 10 A and $\tan \emptyset = 9/4$	29002
$I = 10 \text{ A} \text{ and } \tan \emptyset = 3/4$ (C) $I = 10 \text{ A} \text{ and } \tan \emptyset = 4/3$	29003
(D) None of them.	29004
Right Answer :	Right Option Id : 29003
$I = 10 \text{ A}$ and $tan \emptyset = 4/3$	3
Question 66 what will be the instantaneous voltage for AC supply of 220 V and 50 Hertz ? Answer:	Question Id : 28 Option Id
(A) 311 sin 1000 л t	28001
^(B) 311 sin 10 Л t	28002
	28003
^(C) 311 sin 100 Л t (D) None of these	28004
Right Answer: 311 sin 100 Л t	Right Option Id : 28003
311 SIN 100 JI t	
Question 67	Question Id : 27
choose the correct option. Answer:	Option Id
(A) capacitor Blocks dc and allow ac.	27001
(B) capacitor offter& infinite resistance to dc.	27002
(C) Both (a) and (b) are corect. (D) All are incorrect	27003 27004
(b) All are incorrect	27004
Right Answer : Both (a) and (b) are corect.	Right Option Id : 27003
Question 68 what is the dimensional formula of √LC?	Question Id : 26
Answer:	Option Id
(A) $[M^0 L^0 T^1]$	26001
(B) [M ⁰ L ⁰ T ⁻¹]	26002
(C) [M ⁰ L ² T ¹] (D) None of them	26003 26004
	25001
Right Answer : [M ⁰ L ⁰ T ¹]	Right Option Id : 26001
Question 69	Question Id : 25
An alternating current of 1.5 mA and angular frequency	
w = 300 Radian / sec flows through 1.0 ki10 ohm resistor	
and a 0.5 μF capacitor in series .	
What is the RMS voltage across the capacitor?	
Answer:	Option Id
(A) 10 V	25001
(B) 144 V	25002
(C) 1.0 V	
(D) None	25003 25004
(D) None Right Answer:	





Question 70	Question Id : 24
A capacitor of 1 μF is charged with 0.01C of electricity .	
How much energy is stored in it ?	
Answer:	Option Id
(A) 500 J	24001
(B) 550 J	24002
(C) 50 J	24003
(D) 5.0 J	24004
Right Answer:	Right Option Id : 24003
Question 71 The Fraugh of diffraction pattern on a careen through a circular aperture is of the form of	Question Id: 23
The Fraunhofer diffraction pattern on a screen through a circular aperture is of the form of Answer:	Option Id
(A) Sine function	23001
(B) Delta function	23002
(C) Gaussian function	23003
(D) Airy pattern	23004
Right Answer:	Right Option Id : 23004
Airy pattern	
Outstine 72	Oversiles Id. 22
Question 72 The ratio of intensities of two waves of same frequency is 16:25. The ratio of their amplitude will be	Question Id: 22
Answer:	Option Id
(A) 16:25	22001
(B) 4:5	22002
(C) 3:5	22003
(D) 5:4	22004
Right Answer: 4:5	Right Option Id : 22002
Question 73 Interference and diffraction of light supports in	Question Id : 74
Answer:	Option Id
(A) Wave nature	74001
(B) quantum nature	74002
(C) transverse nature	74003
(D) electromagnetic nature	74004
Right Answer:	Right Option Id : 74001
Wave nature	
Question 74	Question Id : 20
In a Fabry-Perot interferometer the circular fringes formed are referred to as fringes of	Ontion Id
Answer:	Option Id
(A) equal thickness (B) equal inclination	20001 20002
(C) equal chromatic order	20002
(D) none of these	20004
Right Answer: equal inclination	Right Option Id : 20002





Option Id

Question 75	Question Id: 75
The brilliant colors in thin films of soap are due to	
Answer:	Option Id
(A) dispersion	75001
(B) diffraction	75002
(C) scattering	75003
(D) interference	75004
Disk Assume	Binks Onstine Ld : 75004
Right Answer: interference	Right Option Id : 75004
Question 76	Question Id: 78
In total internal reflection, when the angle of incidence is equal to the critical angle for the pair of media in o	
Answer:	Option Id
(A) 180°	78001
(B) 0°	78002
(C) 90°	78003
(D) equal to angle of incidence	78004
Right Answer:	Right Option Id : 78003
90°	
Question 77	Question Id: 92
Huygens' wave theory of light cannot explain	equestion in . Jh
Answer:	Option Id
(A) Diffraction phenomena	92001
(B) Interference phenomena	92002
(C) Photoelectric effect	92003
(D) Polarization of light	92004
Right Answer:	Right Option Id: 92003
Photoelectric effect	
Question 78	Question Id: 93
When Two waves of same amplitude add constructively, the intensity becomes	
Answer:	Option Id
(A) Double	93001
(B) Half	93002
(C) Four Times	93003
(D) One-Fourth	93004
Right Answer :	Right Option Id: 93003
Four Times	
Question 79	Question Id: 94
The laws of reflection hold good for	-
Answer:	Option Id
(A) plane mirror only	94001
(B) concave mirror only	94002
(C) convex mirror only	94003
(D) all mirrors irrespective of their shape	94004
Right Answer:	Right Option Id : 94004
all mirrors irrespective of their shape	5 F
Question 80	Question Id : 97

If white light is used in Young's double slit experiment, then the central fringe will be

Answer:





(A) Red (B) Coloured (C) White (D) Blue Right Answer: White	97001 97002 97003 97004 Right Option Id : 97003
Question 81 The binding energy per nucleon is maximum for the nucleus Answer: (A) Fe ⁵⁶ (B) He ⁴ (C) Pb ²⁰⁸ (D) Mo ¹⁰¹ Right Answer: Fe ⁵⁶	Option Id : 96 Option Id
Question 82 The electron in a hydrogen atom with a radius equal to first Bohr radius has a velocity equal to Answer: $(A) \frac{c}{5}$ $(B) \frac{c}{10}$ $(C) \frac{c}{137}$ $(D) \frac{c}{125}$ Right Answer: $\frac{c}{137}$	Option Id : 91 Option Id 91001 91002 91003 91004 Right Option Id : 91003
Question 83 Bohr radius for Hydrogen is 0.53 Å. The ground state Bohr radius for He+ ion will be Answer: (A) 1.06A (B) 0.53A (C) 0.265A (D) 0.134Å Right Answer: 0.265A	Option Id 98001 98002 98003 98004 Right Option Id : 98003
Question 84 The half-life of radium is 1600 years. After how much time will 1 gm radium reduce to 125 mg? Answer: (A) 1800 years (B) 1600 years (C) 3200 years (D) 4800 years	Option Id 99001 99002 99003 99004





ght Answer : 10 years	Right Option Id : 99004
uestion 85	Question ld : 100
The gyromagnetic ratio for the electron spin is γ times	question in . 100
the corresponding ratio for the electron orbital momentum,	
where γ is	
where γ is	Option Id
) 1/2	100001
) 1/3	100001
) 2	100002
) 3	100004
ight Answer :	Right Option Id : 100003
uestion 86	Question ld : 95
nlenbeck and Goudsmit introduced the concept of	
nswer:	Option Id
) Electron spin	95001
) Electron charge	95002
) Proton spin	95003
) Neutron spin	95004
ight Answer :	Right Option Id : 95001
ectron spin	
uestion 87	Question ld : 90
e energy of a particle in an infinite potential box is	
nswer:	Option Id
) proportional to length of box	90001
) inversely proportional to Square of length of box) inversely proportional to length of box	90002
) none of these	90003
	30004
ight Answer: versely proportional to Square of length of box	Right Option Id : 90002
uestion 88	Question Id: 77
ne concept of matter wave was suggested by nswer :	Option Id
nswer :) Heisenberg	77001
) de Broglie	77001
) Schrodinger	77002
) Laplace	77004
ght Answer : Broglie	Right Option Id : 77002
	Question Id: 88
uestion 89	
uestion 89 e - Broglie wavelength of an electron which has been accelerated from rest through a potential differen	nce of 100 V is
uestion 89 e - Broglie wavelength of an electron which has been accelerated from rest through a potential differen nswer :	nce of 100 V is Option Id
e - Broglie wavelength of an electron which has been accelerated from rest through a potential differen nswer :	
e - Broglie wavelength of an electron which has been accelerated from rest through a potential different enswer : $^{0}~12.27 \text{\AA}$	Option Id
e - Broglie wavelength of an electron which has been accelerated from rest through a potential difference has been accelera	Option Id
- Broglie wavelength of an electron which has been accelerated from rest through a potential different swer : 12.27\AA	Option Id 88001





Right Answer:	Right Option Id: 88002
1.227Å	
Question 90	Question Id: 87
Which of the following can act as both a particle and as a wave?	0 % 11
Answer:	Option Id
(A) photon	87001
(B) electro	87002
(C) neutron	87003
(D) all of these	87004
Right Answer: all of these	Right Option Id : 87004
Question 91	Question Id: 89
An n-type semiconductor is	
Answer:	Option Id
(A) Negatively Charged	89001
(B) Positively charged	89002
(C) Neutral	89003
(D) None of these	89004
Right Answer: Neutral	Right Option Id : 89003
Question 92 The band gap of Si at 300 K is Answer:	Question Id : 86 Option Id
(A) 0.53 eV	86001
(B) 0.80 eV	86002
(C) 1.12 eV	86003
(D) 1.46 eV	86004
Right Answer: 1.12 eV	Right Option Id : 86003
Question 93	Question Id: 85
The α (Current gain in common base configuration)	
and β (Current gain in common emitter configuration)	
of a transistor is related as	
Answer:	Option Id
$^{(A)}\beta = \frac{\alpha}{1-\alpha}$	85001
$\beta = \frac{\alpha}{1+\alpha}$	85002
(C) $\beta = \frac{1+\alpha}{\alpha}$	85003
$\beta = \frac{1}{\alpha}$ (D) $\beta = 1 - \alpha$	85004
Right Answer:	Right Option Id : 85001
$\beta = \frac{\alpha}{1-\alpha}$	
±u	

Question 94 Question Id: 84





If α curren	t gain of	a trans	istor is 0.98.					
			ent gain of		tor			
Answer:							Ol	ption Id
(A) 0.49 (B) 4.9								84001 84002
(C) 5								84003
(D) 49								84004
Diaht Anguar							Dight Option Id	. 94004
Right Answer 49	•						Right Option Id	: 04004
Question 95							Question Id :	76
Which type of fe Answer:	edback is use	ed in case o	of an oscillator circ	cuit?			O	ption Id
(A) Positive								76001
(B) Negative								76002
(C) Unity								76003
(D) None of thes	se							76004
Right Answer Positive	:						Right Option Id	: 76001
Question 96 Which of the following	lowing has th	ne greatest	mobility?				Question Id :	83
Answer:	.5 (1	3.22.030	- y -				Ol	ption Id
(A) Hole								83001
(B) Electron								83002
(C) Positive ion								83003
(D) Negative ion								83004
Right Answer	:						Right Option Id	: 83002
Electron								
Question 97	le for two	input lo	gic gate is give	en below			Question Id :	82
Question 97				en below			Question Id :	82
Question 97	A	В	Output	en below			Question Id :	82
Question 97	A 0	B 0	Output 1	en below			Question Id :	82
Question 97	A 0 0	B 0 1	Output 1 1	en below			Question Id :	82
Question 97 The truth tab	A 0 0 1 1 1	B 0 1 0 1 1	Output 1 1 1	en below			Question Id :	82
Question 97	A 0 0 1 1 1	B 0 1 0 1 1	Output 1 1 1	en below				
Question 97 The truth tab	A 0 0 1 1 1	B 0 1 0 1 1	Output 1 1 1	en below				ption Id
Question 97 The truth tab Then the log Answer:	A 0 0 1 1 1	B 0 1 0 1 1	Output 1 1 1	en below				
Then the log Answer: (A) NAND (B) AND (C) OR	A 0 0 1 1 1	B 0 1 0 1 1	Output 1 1 1	en below				ption Id 82001 82002 82003
Question 97 The truth tab Then the log Answer: (A) NAND (B) AND	A 0 0 1 1 1	B 0 1 0 1 1	Output 1 1 1	en below				ption ld 82001 82002
Then the log Answer: (A) NAND (B) AND (C) OR	A 0 0 1 1 ic gate is -	B 0 1 0 1 1	Output 1 1 1	en below				ption Id 82001 82002 82003 82004
Then the log Answer: (A) NAND (B) AND (C) OR (D) NOR Right Answer NAND	A 0 0 1 1 c gate is -	B 0 1 0 1	Output 1 1 1	en below			Ol	ption Id 82001 82002 82003 82004
Then the log Answer: (A) NAND (B) AND (C) OR (D) NOR Right Answer NAND	A 0 0 1 1 c gate is -	B 0 1 0 1	Output 1 1 1	en below			Right Option Id :	ption Id 82001 82002 82003 82004 382001
Then the log Answer: (A) NAND (B) AND (C) OR (D) NOR Right Answer NAND Question 98 De Morgan's the	A 0 0 1 1 c gate is -	B 0 1 0 1	Output 1 1 1	en below			Right Option Id :	ption Id 82001 82002 82003 82004





(C) $A + B = A$. $B(D) A + B = \overline{A}. B$	81003	
Right Answer: $\overline{A+B} = \overline{A}.\overline{B}$	Right Option Id : 81001	
Question 99 Troposphere is medium for -	Question Id: 80	
Answer:	Option Id	
(A) Surface Wave	80001	
(B) Guided Wave (C) Sky Wave	80002 80003	
(D) Space Wave	80003	
Right Answer: Space Wave	Right Option Id : 80004	
Question 100	Question Id : 79	
Through which mode of propagation, the radio waves can be sent from one place to another- Answer:	Option Id	
(A) Ground wave propagation	79001	
(B) Sky wave propagation	79002	
(C) Space Wave propagation	79003	
(D) All of the above	79004	
Right Answer :	Right Option Id : 79004	
All of the above		
Art Of Teaching		
Question 101 If a child fails to answere in class the teacher will	Question Id : 120	
	Question Id : 120 Option Id	
If a child fails to answere in class the teacher will Answer: (A) advice to study well	Option Id 120001	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish	Option Id 120001 120002	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold	Option Id 120001 120002 120003	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish	Option Id 120001 120002	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer:	Option Id 120001 120002 120003	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure	Option Id 120001 120002 120003 120004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure	Option Id 120001 120002 120003 120004 Right Option Id : 120004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer:	Option Id 120001 120002 120003 120004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure	Option Id 120001 120002 120003 120004 Right Option Id : 120004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration	Option Id	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture	Option Id	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration	Option Id 120001 120002 120003 120004 Right Option Id : 120004 Question Id : 121 Option Id 121001 121002 121003	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration	Option Id 120001 120002 120003 120004 Right Option Id : 120004 Question Id : 121 Option Id 121001 121002 121003 121004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion	Option Id 120001 120002 120003 120004 Right Option Id : 120004 Question Id : 121 Option Id 121001 121002 121003	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration Right Answer:	Option Id 120001 120002 120003 120004 Right Option Id : 120004 Question Id : 121 Option Id 121001 121002 121003 121004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration Right Answer:	Option Id 120001 120002 120003 120004 Right Option Id : 120004 Question Id : 121 Option Id 121001 121002 121003 121004	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration Right Answer: discussion Question 103 One of them is not a principle of coorperative learning	Option Id	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration Right Answer: discussion Question 103 One of them is not a principle of coorperative learning Answer:	Option Id	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration Right Answer: discussion Question 103 One of them is not a principle of coorperative learning Answer: (A) positive dictation	Option Id	
If a child fails to answere in class the teacher will Answer: (A) advice to study well (B) punish (C) scold (D) understand the reason of his failure Right Answer: understand the reason of his failure Question 102 To ensure participation of students we use Answer: (A) demonstration (B) little man's lecture (C) discussion (D) illustration Right Answer: discussion Question 103 One of them is not a principle of coorperative learning Answer:	Option Id	





(D) individual accountalility	125004
Right Answer: positive dictation	Right Option Id : 125001
Question 104 The use of verb for writing specific objections makes it Answer: (A) measurable (B) action oriented (C) specific (D) all the above Right Answer: all the above	Option Id : 123 Option Id 123001 123002 123003 123004 Right Option Id : 123004
Question 105 The process for establishing sequence for a task is Answer: (A) objective (B) procedure (C) strategy (D) none of the above Right Answer: objective	Option Id : 124 Option Id
Question 106 Excursion method develops Answer: (A) Cooperative attitude (B) creative faculty (C) direct knowledge (D) all the above Right Answer: all the above	Option Id : 119 Option Id 119001 119002 119003 119004 Right Option Id : 119004
Question 107 All children have the potential to learn opened Answer: (A) John Deway (B) friedrich Herbart (C) froebel (D) Montessori Right Answer: froebel	Option Id : 117 Option Id
Question 108 One of them is not the focal point of tripolar process of teaching Answer: (A) teaching methods (B) teacher (C) pupil (D) content Right Answer: teaching methods	Option Id : 126 Option Id 126001 126002 126003 126004 Right Option Id : 126001





Question 109 A plan prepared by a teacher to teach a lesson is called Answer:	Question Id : 127 Option Id
(A) unit plan (B) lesson plan	127001 127002
(C) course plan	127003
(D) master plan	127004
Right Answer: lesson plan	Right Option Id : 127002
Question 110 Selly activity and play was the most important contribution of	Question Id : 128
Answer:	Option Id
(A) Pestalozzi (B) froebel	128001 128002
(C) Montessori	128002
(D) Dewey	128004
Right Answer: froebel	Right Option Id: 128002
Question 111 In early childhood, growth And thinking is, while in middle childhood, growth And thinking is	
Answer: (A) slows, logical; is steady, egocentric	Option Id 129001
(A) slows, logical, is steady, egocentric (B) slows, somewhat egocentric; is steady, logical	129001
(C) is steady, somewhat egocentric; slows, logical	129003
(D) is steady, logical; slows, egocentric	129004
Right Answer: is steady, somewhat egocentric; slows, logical	Right Option Id : 129003
Question 112	Question Id: 108
One of the main characteristics of pre-operational thought according to jean piaget is which refers to the ten situation and neglect others.	
Answer: (A) transduction	Option Id 108001
(B) causation	108001
(C) centration	108003
(D) decentration	108004
Right Answer: centration	Right Option Id : 108003
Question 113	Question Id : 130
What is the main goal of 'assessment for learning'? Answer:	Option Id
(A) to compare student performance to a standard or benchmark	130001
(B) to identify students who can be categorised as 'slow learners'	130002
(C) to evaluate student performance and assign grades	130003
(D) to provide feedback to students that can be used to improve their learning	130004
Right Answer: to provide feedback to students that can be used to improve their learning	Right Option Id : 130004





Question 114	Question Id: 122
Diagnostic evaluation ascertains	
Answer:	Option Id
(A) Learning progress and failures during instructions.	122001
(B) Degree of achievements of instructions at the end.	122002
(C) Students performance at the beginning of instructions.	122003
(D) Causes and remedies of persistent learning problems during instructions.	122004
	_
Right Answer:	Right Option Id: 122004
Causes and remedies of persistent learning problems during instructions.	
Question 115	Question Id: 118
	Question in . 110
Which of the following statements about teaching aids are correct	Ontion
Answer:	Option Id
(A) They help students learn better	118001
(B) They make teaching learning process interesting	118002
(C) They help in retaining concepts for longer duration	118003
(D) All of the above	
ען אוו או נוול מטטעכ נווי אין אווי אווי אווי איז אווי איז אווי איז אווי איז איז איז איז איז איז איז איז איז אי	118004
Right Answer:	Right Option Id : 118004
All of the above	
Question 116	Question Id: 115
A library is a place where	
Answer:	Option Id
(A) Many books are kept	115001
(B) Many toys are kept	115002
(C) many clothes are kept	115003
(D) None of the above	115004
(b) traile of the above	113004
	B1 1 2 B 21 11 22 B 22 B 22 B 22 B 22 B
Right Answer:	Right Option Id: 115001
Right Answer : Many books are kept	Right Option Id : 115001
	Right Option Id : 115001 Question Id : 116
Many books are kept	
Question 117	
Question 117 Which one of the following is a type of book? Answer:	Question Id : 116 Option Id
Question 117 Which one of the following is a type of book? Answer: (A) General text book	Question Id : 116 Option Id 116001
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book	Question Id : 116 Option Id
Question 117 Which one of the following is a type of book? Answer: (A) General text book	Question Id : 116 Option Id 116001
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book	Question Id : 116 Option Id 116001 116002
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B	Question Id : 116 Option Id 116001 116002 116003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these	Question Id : 116 Option Id 116001 116002 116003 116004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these	Question Id : 116 Option Id 116001 116002 116003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these	Question Id : 116 Option Id 116001 116002 116003 116004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these	Question Id : 116 Option Id 116001 116002 116003 116004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these	Question Id : 116 Option Id 116001 116002 116003 116004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B	Option Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these	Question Id : 116 Option Id 116001 116002 116003 116004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B	Option Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002 101003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers-Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002 101003 101004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous Right Answer:	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002 101003
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers-Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002 101003 101004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous Right Answer:	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002 101003 101004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous Right Answer:	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 101 Option Id 101001 101002 101003 101004
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous Right Answer: Jealous	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 1101 Option Id 101001 101002 101003 101004 Right Option Id : 101004
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Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous Right Answer: Jealous	Question Id : 116 Option Id
Question 117 Which one of the following is a type of book? Answer: (A) General text book (B) Reference book (C) Both A and B (D) None of these Right Answer: Both A and B Question 118 Which of the following is not a quality of teachers- Answer: (A) Empathy (B) Communication (C) Creativity (D) Jealous Right Answer: Jealous	Question Id : 116 Option Id 116001 116002 116003 116004 Right Option Id : 116003 Question Id : 1101 Option Id 101001 101002 101003 101004 Right Option Id : 101004





(B) Management capacity (C) Social skills	102002 102003	
(D) None of these	102004	
Right Answer: Sensitivity	Right Option ld : 102001	
Question 120 Teacher's role at higher education	Question Id : 104	
Answer: (A) Promote self learning in students	Option Id 104001	
(B) Provide information to students	104002	
(C) help students to solve their problem	104003	
(D) None of these	104004	
Right Answer: Promote self learning in students	Right Option Id : 104001	
Question 121 Evaluation process is related to-	Question Id : 105	
Answer:	Option Id	
(A) Whole learning process (B) Examinatino	105001 105002	
(C) Test	105002	
(D) Measurement	105004	
Right Answer: Whole learning process	Right Option ld : 105001	
Question 122 Which of the following is not a tool of evaluation?	Question Id: 106	
Question 122 Which of the following is not a tool of evaluation? Answer:	Question Id : 106 Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale	Option Id 106001	
Which of the following is not a tool of evaluation? Answer:	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report	Option Id 106001 106002	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record	Option Id 106001 106002 106003 106004	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list	Option Id 106001 106002 106003	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer:	Option Id 106001 106002 106003 106004	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer:	Option Id 106001 106002 106003 106004	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for-Answer:	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for-Answer:	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time (B) Collection of student's marks over a period of time	Option Id	
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Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time (B) Collection of student's marks over a period of time (C) Collection of student's grade over a period of time (D) All of the above Right Answer:	Option Id 106001 106002 106003 106004 Right Option Id : 106002 Question Id : 107 Option Id 107001 107002 107003 107004	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time (B) Collection of student's marks over a period of time (C) Collection of student's grade over a period of time (D) All of the above Right Answer: Collection of student's works over a period of time	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time (B) Collection of student's marks over a period of time (C) Collection of student's grade over a period of time (D) All of the above Right Answer: Collection of student's works over a period of time Question 124 The Purpose of Sports is Answer: (A) Physical development	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time (B) Collection of student's marks over a period of time (C) Collection of student's grade over a period of time (D) All of the above Right Answer: Collection of student's works over a period of time Question 124 The Purpose of Sports is Answer: (A) Physical development (B) Moral Development	Option Id	
Which of the following is not a tool of evaluation? Answer: (A) Rating scale (B) Project report (C) Check list (D) Cumulative record Right Answer: Project report Question 123 A portfolio is a tool for- Answer: (A) Collection of student's works over a period of time (B) Collection of student's marks over a period of time (C) Collection of student's grade over a period of time (D) All of the above Right Answer: Collection of student's works over a period of time Question 124 The Purpose of Sports is Answer: (A) Physical development	Option Id	





Right Answer: Both of the above	Right Option Id : 103003
Question 125	Question Id : 109
Psychological foundation plays its role in the devlopment of curriculum keeping in view- Answer :	Option Id
(A) Student's emotion	109001
(B) Student's nature	109002
(C) Student's happiness	109003
(D) student's needs	109004
Right Answer: student's needs	Right Option Id : 109004
Question 126	Question Id : 110
The Characteristic of the Indian society	Ontion Id
Answer:	Option Id
(A) conservative	110001
(B) unscientific	110002
(C) open (D) stratified	110003 110004
(U) Structured	110004
Right Answer: stratified	Right Option Id : 110004
Question 127 which of the following is not the cause of getting ?	Question Id : 111
Answer:	Option Id
(A) Mental conflict	111001
(B) Desire to remember	111002
(C) Defective methods of remembering	111003
(D) All the above	111004
Right Answer: Desire to remember	Right Option Id : 111002
Question 128 Which of the these factors does not affect the learning process -	Question Id : 112
Answer:	Option Id
(A) Intelligence	112001
(B) Interest	112002
(C) Readiness	112003
(D) Goal setting	112004
Right Answer :	Right Option Id : 112004
Goal setting	Algari Option Id . 112007
Question 129	Question Id : 113
Audio-visual aid facilitate- Answer :	Option Id
(A) Multi-sensory	113001
(B) Only visual	113001
(C) Only Audio	113002
(D) None of the above	113003
	113004
Right Answer : Multi-sensory	Right Option Id: 113001





Question 130	Question Id: 114
Dienes block is used in-	0 11 11
Answer:	Option Id
(A) Addition	114001
(B) Substraction	114002
(C) Both of the above	114003
(D) None of the above	114004
Right Answer: Both of the above	Right Option Id : 114003
Other Skills	
Question 131	Question Id: 149
Lala Lajpat Rai was also known as :	
Answer:	Option Id
(A) Sher-e-Bengal	149001
(B) Sher-e-Maharastra	149002
(C) Sher-e-Kashmir	149003
(D) Sher-e-Punjab	149004
Right Answer: Sher-e-Punjab	Right Option Id : 149004
Question 132	Question Id: 148
Which of the following Monsoons account for most of the rainfall in India?	
Answer:	Option Id
(A) North East Monsoon	148001
(B) South West Monsoon	148002
(C) South East Monsoon	148003
(D) East Asia Monsoon	148004
Right Answer: South West Monsoon	Right Option Id : 148002
	7/
Question 133	Question Id: 147
Which country has the largest number of internet users in the world?	0.5.11
Answer:	Option Id
(A) China	147001
(B) USA	147002
(C) India (D) Brazil	147003
(D) DIAZII	147004
Right Answer:	Right Option Id: 147001
China	
Question 134	Question Id: 146
Under whose leadership in Bihar, All Party boycotted the Simon Commission?	
Answer:	Option Id
(A) Anugrah Narayan Sinha	146001
(B) Ramvriksh Benipuri	146002
(C) Phanishwar Nath Renu	146003
(D) Rajendra Prasad	146004
Right Answer:	Right Option Id : 146001
Anugrah Narayan Sinha	3 p

Question 135

As per the recent notification of CERT-In, what is the time limit to report the cyber incidents after its detection?





Answer:	Option Id
(A) 2 days	145001
(B) 1 day	145002
(C) 12 hours	145003
(D) 6 hours	145004
Right Answer: 6 hours	Right Option Id : 145004
Question 136	Question Id : 144
Bronze is an alloy made by melting the following:	
Answer:	Option Id
(A) Zinc and tin	144001
(B) Tin and copper	144002
(C) Copper and zinc	144003
(D) Aluminium and zinc	144004
Right Answer:	Right Option Id : 144002
Tin and copper	
Question 137	Question Id: 143
Select the correct statements about elephants from the following: A. A three-month-old baby elephant generally weighs about 100 kg.	
B. An adult elephant can eat more than 200 kg of leaves and twigs in one day.	
C. Elephants do not rest very much; they sleep for only two to four hours in a day.	
D. Elephants like to play with mud and water.	
Answer:	Option Id
(A) C and D	143001
(B) B and D	143002
(C) A and B	143003
(D) A and C	143004
Right Answer:	Right Option Id: 143001
C and D	
Question 138	Question Id: 142
Select from the following the best period of the year for the people of Bihar to start a bee-keeping programme:	
Answer:	Option Id
(A) August to October	142001
(B) October to December	142002
(C) February to April	142003
(D) April to June	142004
Dight Anguar	Pight Option Id : 142002
Right Answer: October to December	Right Option Id : 142002
October to December	
Question 139	Question Id : 141
Read the following statements and choose the correct option:	
Assertion (A) On applying pressure, gas can be compressed easily.	
Reason (R) When we apply pressure to a gas, the intermolecular space between gaseous particles decreases and it gets com	
Answer:	Option Id
(A) (A) is true, but, (R) is false.	141001
(B) (A) is false, but (R) is ture.	141002
(C) Both (A) and (R) are true and (R) is the correct explanation of (A)	141003
(D) Both (A) and (R) are true, but (R) is not the correct explanation of (A)	141004
Dight Anguay	Dimbs Ousing 14 : 444003
Right Answer: Both (A) and (R) are true and (R) is the correct explanation of (A)	Right Option Id: 141003
both try and try are true and try is the correct explanation of (A)	





Question 140	Question Id: 131
Consider the following Statements A and B:	
Statement A In Manali, houses are constructed with wood, slanting roofs and elevated on strong bamboo pollars. Statement B Manali receives a lot of rain and snowfall.	
Choose the correct Option:	
Answer:	Option Id
(A) A is correct, but B is incorrect	131001
(B) A is incorrect, but B is correct	131002
(C) Both A and B are corect	131003
(D) Both A and B are incorrect	
(D) both A and B are incorrect	131004
Right Answer:	Right Option Id: 131002
A is incorrect, but B is correct	Right Option id : 131002
A billionice, but b is contect	
Overting 444	O
Question 141 To double appropriation for mathematics among children a teacher performs the following activities in the class Chaese to	Question Id: 139
To develop appreciation for mathematics among children, a teacher performs the following activities in the class. Choose tachieve her objective.	the one which is not effective to
Answer:	Option Id
	·
(A) She establishes a mathematics corner in her class where students can perform various mathematical activities.	139001
(B) She always praises the student who achieves highest marks in the class in the term-end examination.	139002
(C) She shows to children the videos on Indian mathematicians and their contributions.	139003
(D) She gives mathematical puzzles and magic squares to be solved in the class.	139004
Right Answer:	Right Option Id: 139002
She always praises the student who achieves highest marks in the class in	
the term-end examination.	
Question 142	Question Id: 138
Which of the following statements about nature of mathematics are most appropriate?	
A. It helps the child to be creative.	
B. It helps in nurturing the child's imagination.	
C. It is based on deductive reasoning.	
D. It is always convergent.	
Choose the correct option:	0 11 11
Answer:	Option Id
(A) A and B	138001
(B) A, B and C	138002
(C) B and C	138003
(D) A and C	138004
Right Answer:	Right Option Id: 138002
A, B and C	
Question 143	Quarties Id : 127
Who among the following has worked in the field of mathematical astronomy?	Question Id: 137
Answer:	Option Id
	137001
(A) Mahavira	
(B) Aryabhata	137002
(C) Bhaskara	137003
(D) Ramanujan	137004
Dinhé Anguan	Diaba Ontion Id. 427000
Right Answer:	Right Option Id : 137002
Aryabhata	
Question 144	Question Id: 136
A vegetable seller was selling spinach for ₹ 60 per kg. Sonu purchased 350 g of spinach for which the vegetable seller took	c ₹ 21 (₹ 6 + ₹ 6 + ₹ 6 + ₹ 3) from
Sonu. Which of the following statements is/are true regarding the mathematical skills used by the vegetable seller?	

B. This skill is not beneficial for solving mathematical problems in class.

C. Such skills are helpful in developing alternative methods of solving mathematical problems.

Answer:

(A) Only C

136001

A. This mathematical skill is vague.





C) Only A D) Only B Light Answer: Plucestion 145 Which of the following statements is not correct? A) Errors of the students should be overlooked as pointing errors will demotivate them.	136003 136004 Right Option Id : 136001
Question 145 Which of the following statements is not correct?	
Question 145 Which of the following statements is not correct?	Right Option Id : 136001
vhich of the following statements is not correct?	
inswer:	Question Id: 135
	Option Id
	135001
3) Errors of the students give information about their thought process.	135002
C) Errors in mathematics are part of learning.	135003
D) Errors in mathematics help teachers in planning their lessons.	135004
ight Answer :	Right Option Id : 135001
rrors of the students should be overlooked as pointing errors will emotivate them.	Right Option id : 133001
Question 146 Ionday : April : : Friday : ?	Question Id: 134
inswer :	Option Id
A) July	134001
3) Saturday	134002
C) August	134003
O) Tuesday	134004
tight Answer :	Right Option Id: 134003
hoose the word which is least like the other words in the group. A) Kidney B) Heart C) Lung D) Ear Light Answer:	Option Id 133001 133002 133003 133004 Right Option Id: 133002
Question 148	Question Id : 132
0,30,120,15,240?	Option Id
inswer:	132001
answer:	132001 132002
inswer:	132002
answer : A) 30 B) 120	
A) 30 B) 120 C) 140	132002 132003
A) 30 B) 120 C) 140 D) 71/2 Sight Answer: 1/2	132002 132003 132004
A) 30 B) 120 C) 140 D) 71/2 Hight Answer: 1/2 Question 149 The a certain code, if BAD is written as YZW and SAID is written as HZRW, then LIFE will be written as:	132002 132003 132004 Right Option Id : 132004
A) 30 B) 120 C) 140 D) 71/2 Light Answer: 1/2 Luestion 149 a certain code, if BAD is written as YZW and SAID is written as HZRW, then LIFE will be written as: Linswer:	132002 132003 132004 Right Option Id : 132004 Question Id : 140
A) 30 B) 120 C) 140 D) 71/2 Sight Answer: 1/2 Question 149 To a certain code, if BAD is written as YZW and SAID is written as HZRW, then LIFE will be written as: A) ORUV	132002 132003 132004 Right Option Id : 132004 Question Id : 140 Option Id 140001
A) 30 B) 120 C) 140 D) 71/2 Light Answer: 1/2 Luestion 149 a certain code, if BAD is written as YZW and SAID is written as HZRW, then LIFE will be written as: Linswer:	132002 132003 132004 Right Option Id : 132004 Question Id : 140





Right Answer: ORUV	Right Option Id : 140001
Question 150 Pointing towards Sita, Nikhil said, "I am the only son of her mother's son". How is Sita related to Nikhil?	Question Id: 150
Answer:	Option Id
(A) Aunt	150001
(B) Niece	150002
(C) Mother	150003
(D) Cousin	150004
Right Answer:	Right Option Id : 150001
Aunt	

