QUESTION PAPER Junior Engineer(Mechanical) [SHIFT - 1]

Exam Date : 28/02/2024

Time: 10:00 AM - 12:00 PM

Subjective questions

Question 1 Which one of the following represents Open thermodynamics system?	Question Id : 1
Answer:	Option Id
(A) Manual Ice cream Freezer	1001
(B) Centrifugal Pump	1002
(C) Pressure Cooker	1002
(D) Bomb Calorimeter	1003
	1004
Right Answer : Centrifugal Pump	Right Option Id : 1002
Question 2	
The standard fixed point of thermometry is Answer:	Question Id: 28
(A) Ice Point	Option Id
(B) Sulphur point	28001
	28002
(C) Triple point of water	28003
(D) Normal Boiling point of water	28004
D'al-4 Assesses	20004
Right Answer : Triple point of water	Right Option Id : 28003
Question 3	Question Id : 29
First law of thermodynamics is valid for Answer :	
(A) All processes	Option Id
(B) Only reversible processes	29001
	29002
(C) Only cyclic processes	29003

Question Id: 31 Which of the following parameters does not indicate the departure of real gas from the ideal gas behavior? Answer: Option Id (A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (C) Fugacity (D) Entropy Right Answer: Entropy Question 6 Question Id: 32 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS	(D) Only cyclic processes that are carried out reversibly	29004
Question Id : 30 Answer: Application Id : 30 App		Right Option Id : 29001
Choose the correct statement Answer: (2) Entropy is an intensive property (3) Entropy is an entensive property (4) Density is an entensive property (5) Density is an entensive property (6) Density is an entensive property (7) Pressure is an extensive property (8) Right Answer: Density is an intensive property (8) Right Answer: Density is an intensive property Right Option Id: 30003 Question 5 Question 5 Question 16: 31 Which of the following parameters does not indicate the departure of real gas from the ideal gas behavior? Answer: Option Id (A) Compressibility factor (B) Joule: Kelvin coefficient (C) Fugacity (D) Entropy Right Answer: Entropy Right Answer: (A) Sight Answer: (D) Entropy Right Option Id: 31004 Right Answer: (D) Entropy Right Option Id: 31004 Right Answer: (D) Entropy Right Option Id: 31004 Right Answer: (D) Entropy Question 6 Helmholate function (f) is given by Answer: (D) Sighen Id: 32004		
(A) Entropy is an intensive property (B) Density is an extensive property (C) Density is an extensive property (D) Pressure is an extensive property (D) Pressure is an extensive property (E) Density is an intensive property (D) Pressure is an extensive property (E) Density is an intensive property (E) Density is an extensive property (D) Density is an extensive p	Choose the correct statement	
(B) Density is an intensive property (C) Density is an intensive property (D) Pressure is an extensive property (E) Pressure is an extensive property (D) Pressure is an extensive property (E) Pressure is an extensive property (E) Density is an intensive property (E) Density is an extensive property (E) Density is an intensive property (E) Density is an extensive property (E) Density is an intensive property (Density is an extensive property (Density is an intensive property (Density is an extensive property (Density is an intensive property (Density is an extensive property (Density is an intensive property (Density is an intensive property (Density is an intensity property (Density is an intensity property (Density is an intens	(A) Entropy is an intensive property	
(C) Perssure is an extensive property (D) Pressure is an extensive property (E) Answer: Density is an intensive property (E) Pressure is an extensive property (E) Pressu	(B) Density is an extensive property	
(C) Pressure is an extensive property Right Answer: Density is an intensive property Right Option Id: 30003 Question 5 Question 13 Which of the following parameters does not indicate the departure of real gas from the ideal gas behavior? Answer: Option Id (A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (C) Fugacity (D) Entropy Right Answer: Entropy Right Answer: Entropy Question 6 Question Id: 32 Helmholtz function (F) is given by Answer: Option Id (A) F-H-TS	(C) Density is an intensive property	30002
Right Answer: Density is an intensive property Question 5 Question Id : 31 Which of the following parameters does not indicate the departure of real gas from the ideal gas behavior? Answer: Option Id (A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (C) Fugacity (D) Entropy Right Answer: Entropy Right Answer: Entropy Right Option Id : 31004 Question 6 Helmholtz function (f) is given by Answer: Option Id (A) F=H-TS	(D) Pressure is an extensive property	30003
Question 5 Question Id : 30003 Which of the following parameters does not indicate the departure of real gas from the ideal gas behavior? Answer: (A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (D) Entropy Right Answer: Entropy Question 6 Question Id : 32 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS		30004
Question Id: 31 Which of the following parameters does not indicate the departure of real gas from the ideal gas behavior? Answer: Option Id (A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (C) Fugacity (D) Entropy Right Answer: Entropy Question 6 Question Id: 32 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS		Right Option Id : 30003
Answer: (A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (C) Fugacity (D) Entropy Right Answer: Entropy Right Option Id: 31004 Question 6 Helmholtz function (F) is given by Answer: (A) F=H-TS		
(A) Compressibility factor (B) Joule- Kelvin coefficient (C) Fugacity (D) Entropy Right Answer: Entropy Question 6 Helmholtz function (F) is given by Answer: (A) Compressibility factor All 2010 All		Option Id
(C) Fugacity (D) Entropy (Bight Answer: Entropy Question 6 Question 1d: 32 Helmholtz function (F) is given by Answer: (A) F=H-TS	(A) Compressibility factor	31001
(D) Entropy Right Answer: Entropy Right Option Id: 31004 Question 6 Question 6 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS	(B) Joule- Kelvin coefficient	31002
Right Answer: Entropy Right Option Id: 31004 Question 6 Question Id: 32 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS	(C) Fugacity	31003
Right Answer: Entropy Right Option Id: 31004 Question 6 Question Id: 32 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS	(D) Entropy	31004
Question 6 Question Id: 32 Helmholtz function (F) is given by Answer: Option Id (A) F=H-TS		
Question Id : 32 Helmholtz function (F) is given by Answer : (A) F=H-TS		Right Option ia : 3 1004
Answer: Option Id (A) F=H-TS		
(A) F=H-TS		Ontion Id
32001	(A) F=H-TS	32001
(B) F=U-TS 32002	(B) F=U-TS	
(C) F=U+TS 32002	(C) F=U+TS	

(D) None of the given options	32004
Right Answer: F=U-TS	Right Option Id : 32002
Question 7 Question Id: 33 For an Otto cycle, the increase in compression ratio leads to Answer:	
(A) An increase in thermal efficiency but a decrease in mean effective pressure	Option Id
(B) A decrease in thermal efficiency but an increase in mean effective pressure	33001
(C) A decrease in thermal efficiency and mean effective pressure	33002
(D) An increase in thermal efficiency and mean effective pressure	33004
Right Answer: An increase in thermal efficiency and mean effective pressure	Right Option Id : 33004
Question 8 Question Id: 34 Air standard diesel cycle has a compression ratio of 14 and cut off takes place at 6% of the stroke. What is the cut off ratio?	
Answer: (A) 0.6	Option Id
(B) 0.78	34001
(C) 1.78	34002
(D) None of the given options	34003
Right Answer: 1.78	34004
	Right Option Id : 34003
Question 9 Question Id : 35	
What should be the limiting value of final dryness fraction of steam in a steam turbine? Answer:	Option Id
(A) 0.95	35001
(B) 0.91	35002
(C) 0.88	35003
(D) 0.78	

	35004
Right Answer: 0.88	
	Right Option Id: 35003
Question 10	
Question Id: 36 COP of a Carnot heat pump operating between -3°C and 27°C is Answer:	
(A) 10	Option Id
(B) 9	36001
	36002
(C) 0.111	36003
(D) 0.1	36004
Right Answer:	
10	Right Option Id : 36001
Question 11 Question Id: 37 In a vapour compression cycle, the refrigerant immediately after expansion valve is	
Answer:	Option Id
(A) Saturated liquid	37001
(B) Sub cooled liquid	37002
(C) Wet vapour	37003
(D) Dry vapour	
	37004
Right Answer : Wet vapour	Right Option Id : 37003
Question 12 Question Id: 38	
The number of Hydrogen Atoms in the refrigerant R-12 is Answer:	
(A) 4	Option Id
(B) 2	38001
(C) 1	38002
(D) 0	38003

	38004
Right Answer:	
	Right Option Id : 38004
Question 13	
Question Id: 39 The mechanism used in a shaping machine is	
Answer:	Option Id
(A) A closed 4-bar chain having 4 revolute pairs	Option id
	39001
(B) A closed 6-bar chain having 6 revolute pairs	39002
(C) A closed 4-bar chain having 2 revolute and 2 sliding pairs	
	39003
(D) An inversion of the single slider – crank chain	39004
Right Answer: An inversion of the single slider – crank chain	
	Right Option Id : 39004
Question 14 Question Id : 40	
In a reciprocating engine, the maximum fluctuation in energy is found to be 2 J and the variation in speed is limited to 2% is 100 rad/s and the radius of gyration of wheel is 0.1m, the mass of the flywheel is	of the mean speed. If the mean speed
Answer:	Option Id
(A) 3 kg	
(B) 2kg	40001
	40002
(C) 1kg	40003
(D) 0.5kg	40003
	40004
Right Answer:	
1kg	Right Option Id : 40003
	g.it epitoli ia i 1000
Question 15	
Question Id: 41	
The maximum fluctuation of energy in a flywheel is equal to Answer:	
(A) $I\omega(\omega_1 - \omega_2)$	Option Id
	41001
(B) $I\omega^2 K$	41002
(C) 2KE	41002
	41003
(D) All of the given options	

	41004
Right Answer:	
All of the given options	Right Option Id : 41004
Question 16 Question Id : 42	
Natural frequency of undamped free vibration is 100RPS and Damping is provided with damping factor is 0.8 then what is the frequency of Answer:	of damped vibration
(A) 80rps	Option Id
	42001
(B) 45rps	42002
(C) 60rps	
(D) 96rps	42003
	42004
Right Answer:	
60rps	Right Option Id : 42003
Question 17 Question Id : 43	
The property of a material that cannot be significantly changed by heat treatment is Answer:	
(A) Yield strength	Option Id
	43001
(B) Ultimate tensile strength	43002
(C) Ductility	O 12222
(D) Elastic modulus	43003
	43004
Right Answer:	
Elastic modulus	Right Option Id : 43004
Question 18 Question Id: 44	
What is the process by which two or more chemically different monomers are polymerized to form a cross link polymer together with a brammonia, known as? Answer:	y product such as water or
(A) Addition polymerization	Option Id
	44001
(B) Co- polymerization	44002
(C) Linear polymerization	44003

(D) Condensation polymerization	44004
Right Answer: Condensation polymerization	Right Option Id : 44004
Question 19 Question Id: 45 Alloy steel which is work hardenable and which is used to make the blades of bulldozers, bucket wheel excavators and other earth movin carbon and	g equipment contain iron,
Answer:	Option Id
(A) Chromium	45001
(B) Silicon	45002
(C) Manganese	45003
(D) Magnesium	45004
Right Answer: Manganese	
Manganese	Right Option Id : 45003
Question 20 Question Id : 46	
Which of the following operation does not uses a Jig? Answer:	Ontion Id
(A) Turning	Option Id 46001
(B) Drilling	46002
(C) Reaming	46003
(D) Taping	
Right Answer:	46004
Turning	Right Option Id : 46001
Question 21	
Question Id: 47 Angle between the face and flank of the single point cutting tool is known as Answer:	
(A) Rake angle	Option Id
(B) Clearance angle	47001
(C) Lip Angle	47002

	4700
(D) Point Angle	
	4700
Right Answer : ip Angle	
	Diaht Oution Id. 4700
Question 22 Question Id : 48	
grinding wheel is specified as	
9 A 26 36 M 7 V 24 . he number 36 stands for	
answer:	Option I
A) Structure	Орион
	4800
B) Grade	
	4800
C) Grit Size	4800
D) Bond	4800
	4800
Right Answer : Grit Size	
	Right Option Id : 4800
Question 23	
Question Id : 27 During ultrasonic machining, the metal removal is achieved by	
Answer:	Option I
A) High frequency eddy currents	Οριιοίι 1
	2700
B) High Frequency sound waves	
	2700
C) Hammering action of abrasive particles	2700
D) Rubbing action between tool and work piece	2700
	2700
Simbat American	
Right Answer : Hammering action of abrasive particles	
	Right Option Id : 2700
Question 24	
Question Id: 25 /hich of the following instruments is used for conducting alignment tests? .nswer:	
	Option
A) Strain Gauge	2500
3) Dial Gauge	2500
	2500
C) Dynamometer	

(D) Tachometer	25003
	25004
Right Answer : Dial Gauge	Right Option Id : 25002
Question 25 A Master Gauge is	Question ld : 2
Answer: (A) A new gauge	Option Id
(B) An international reference standard	2001
(C) A standard gauge for checking accuracy of gauges used on shop flo	2002 pors
(D) A gauge used by experienced technicians	2003
	2004
Right Answer : A standard gauge for checking accuracy of gauges used on shop floors	Right Option Id : 2003
Question 26 Surface roughness on a drawing is represented by	Question Id : 24
Answer:	Option Id
(A) Circle	24001
(B) Triangle (C) Square	24002
(D) None of the given options	24003
(E) result of the great species	24004
Right Answer: Triangle	Right Option Id : 24002
Question 27 Internal gears can be made by	Question Id: 3
Answer: (A) Hobbing	Option Id
(B) Gear Shaping with rake cutter	3001
(C) Gear shaping with pinion cutter	3002

300	
(D) Grand milling)4
Right Answer:	
Gear shaping with pinion cutter Right Option Id: 300	3
Question 28 Question Id : 4	
In arc welding arc is created between the electrode and work by Answer : Option	14
(A) Flow of current	
(B) Voltage)1
(C) Material Characteristics)2
400)3
(D) Contact resistance 400)4
Right Answer:	
Contact resistance Right Option Id : 400)4
Question 29 Question Id : 5 Soldering process is carried out in the temperature ranges	
Answer:	ld
(A) 15-60°C	
(B) 70-150°C	
(C) 180-250°C)2
(D) 300-500°C)3
500)4
Right Answer: 180-250°C	
Right Option Id : 500	3
Ougstion 20	
Question 30 Question Id : 6 The DC power source for arc welding has the characteristics 3V+I=240, where V= Voltage and I = Current in amp. For maximum arc power at the electrode, voltage should be set at	
Answer:	ld
(A) 20V 600)1
(B) 40V)2

(C) 60V	
	6003
(D) 80V	C004
	6004
Right Answer: 40V	
400	Right Option Id: 6002
Question 31 Question Id: 7	
In which one of the following machining manual part programming is done? Answer:	
	Option Id
(A) CNC Machining	7001
(B) NC Machining	
	7002
(C) DNC Machining	7003
(D) FMS Machining	7003
	7004
Right Answer :	
NC Machining	Pight Option Id : 7002
	Right Option Id : 7002
Question 32 Question Id: 8	
In which machining system, the highest level of automation is found? Answer:	
	Option Id
(A) CNC machine tools	8001
(B) Automatic transfer machines	
	8002
(C) Machine tools with electro hydraulic positioning and control	8003
(D) DNC Machining system	0003
	8004
Right Answer:	
Automatic transfer machines	Right Option Id : 8002
	Right Option Id : 8002
Ouestien 22	
Question 33 Question Id: 9	
Programmable automation is suitable for Answer :	
(A) Low production volume and large varieties of parts	Option Id
(, y == p. = = = = = a a.	9001
(B) Low production volume and small varieties of parts	
(C) High modulation values and appell variation of the tra	9002
(C) High production volume and small varieties of parts	

	9003
(D) High production volume and large varieties of parts	9004
Right Answer: Low production volume and large varieties of parts	Right Option Id : 9001
Question 34	
Question Id: 10 What is the correct order of the development of the following? 1.Numerical control	
2.Computer numerical control 3.Direct numerical control 4. Distributed numerical control	
Answer : (A) 1, 2, 3 and 4	Option Id
(B) 4, 2, 3 and 1	10001
(C) 1, 3, 2 and 4	10002
(D) 4, 3, 2 and 1	10003
	10004
Right Answer: 1, 2, 3 and 4	Right Option Id : 10001
Question 35 Question Id: 11	
Machining centre is Answer:	Ontion Id
(A) An automatic tool changing unit	Option Id
(B) A group of automatic machine tool	11002
(C) A next logical step beyond NC Machine	11003
(D) An NC machine tool	11004
Right Answer:	
A group of automatic machine tool	Right Option Id : 11002
Question 36 Question Id : 12	
Which one of the following types of layout is used for the manufacturing of huge aircraft? Answer:	Option Id
(A) Product layout	12001

(B) Process layout	
(C) Fixed position layout	12002
(D) Combination layout	12003
	12004
Right Answer: Fixed position layout	Right Option Id : 12003
Question 37 Question Id: 13 The correct sequence of increasing production volume is Answer:	
(A) Batch, job flow and mass	Option Id
(B) Mass, flow, batch and job	13001
(C) Job, flow, mass and batch	13002
	13003
(D) Job, batch, mass and flow	13004
Right Answer: Job, batch, mass and flow	Right Option Id : 13004
Question 38	
Question 38 Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer:	tion based on which one of the following failure theories would give
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula	tion based on which one of the following failure theories would give Option Id
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory	
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory	Option Id
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory (C) Maximum strain energy theory	Option Id
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory	Option Id 14001 14002
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory (C) Maximum strain energy theory	Option Id 14001 14002 14003 14004
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory (C) Maximum strain energy theory (D) Maximum distortion energy theory	Option Id 14001 14002 14003
Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calculathe most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory (C) Maximum distortion energy theory Right Answer: Maximum shear stress theory	Option Id 14001 14002 14003 14004
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Question Id: 14 A shaft made from ductile material is subjected to combined bending and twisting moments. Calcula the most conservative values? Answer: (A) Maximum principle stress theory (B) Maximum shear stress theory (C) Maximum strain energy theory (D) Maximum distortion energy theory Right Answer: Maximum shear stress theory Question 39 Question Id: 15	Option Id 14001 14002 14003 14004

(B) 70%	
(C) 75%	15002
(D) 80%	15003
	15004
Right Answer: 50%	
	Right Option Id: 15001
Question 40	
Question Id: 16 In case of power screw, what is the combination of materials used for the screw and the nut? Answer:	
(A) Cast iron screw and mild steel nut	Option Id
(B) Carbon steel screw and phosphor bronze nut	16001
	16002
(C) Cast iron screw and cast iron nut	16003
(D) Aluminum screw and alloy steel nut	16004
Right Answer:	
Carbon steel screw and phosphor bronze nut	
	Right Option Id: 16002
	Right Option Id : 16002
Question 41 Question Id: 17	
	resilience?
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of	resilience?
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer:	resilience? Option Id 17001
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ²	resilience?
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ² (B) 125mm ² /N	resilience? Option Id 17001
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ² (B) 125mm ² /N (C) 0.01N/mm ²	Option Id 17001 17002
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ² (B) 125mm ² /N (C) 0.01N/mm ²	Presilience? Option Id 17001 17002 17003 17004
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10-3N/mm² (B) 125mm²/N (C) 0.01N/mm² (D) 100mm²/N Right Answer:	Option Id
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ² (B) 125mm ² /N (C) 0.01N/mm ² (D) 100mm ² /N Right Answer: 8x10 ⁻³ N/mm ²	Presilience? Option Id 17001 17002 17003 17004
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ² (B) 125mm ² /N (C) 0.01N/mm ² (D) 100mm ² /N Right Answer: 8x10 ⁻³ N/mm ² Question 42 Question Id: 18 Which one of the following properties cannot be evaluated by static tension test?	Presilience? Option Id 17001 17002 17003 17004
Question Id: 17 A square steel bar of 50 mm side and 5m long is subjected to a load where upon, it absorbs a strain energy of 100J. What is its modulus of Answer: (A) 8x10 ⁻³ N/mm ² (B) 125mm ² /N (C) 0.01N/mm ² (D) 100mm ² /N Right Answer: 8x10 ⁻³ N/mm ² Question 42 Question Id: 18	Presilience? Option Id 17001 17002 17003 17004

(B) Modulus of elasticity	18002
(C) Ductility	18003
(D) Poisson's ratio	18004
Right Answer : Shear strength	Right Option Id : 18001
Question 43	
Question Id: 19 For a specific application Young's modulus of materials is 125 GPa and Poisson's ratio is 0.25, the modulus of rigidity is- Answer:	
(A) 50Gpa	Option Id
(B) 60Gpa	19001
(C) 80Gpa	19002
(D) 90Gpa	19003
	19004
Right Answer: 50Gpa	
	Right Option Id : 19001
Question 44	Right Option Id : 19001
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is-	Option Id
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is-Answer:	Option Id
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is-Answer: (A) 75 MPa	Option Id 20001 20002
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is- Answer: (A) 75 MPa (B) 86.5 MPa	Option Id
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is-Answer: (A) 75 MPa (B) 86.5 MPa (C) 100 MPA (D) 122.3 MPa	Option Id 20001 20002
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is-Answer: (A) 75 MPa (B) 86.5 MPa (C) 100 MPA	Option Id
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is- Answer: (A) 75 MPa (B) 86.5 MPa (C) 100 MPA (D) 122.3 MPa Right Answer: 86.5 MPa	Option Id
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is- Answer: (A) 75 MPa (B) 86.5 MPa (C) 100 MPA (D) 122.3 MPa Right Answer: 86.5 MPa	Option Id
Question 44 Question Id: 20 The axially loaded bar is subjected to a normal stress of 173MPa. The shear stress in the bar is- Answer: (A) 75 MPa (B) 86.5 MPa (C) 100 MPA (D) 122.3 MPa Right Answer: 86.5 MPa Question 45 Question Id: 21 A beam carrying a uniformly distributed load rests on two supports 'b' apart with equal overhangs 'a' at each end. The ratio b/a for	Option Id

(B) 1	
(C) 3/2	21002
(D) 2	21003
	21004
Right Answer:	
2	Right Option Id : 21004
Question 46	
Question Id: 22 The moment diagram for a cantilever beam subjected to bending moment at end of beam will be Answer:	
(A) Cubic parabola	Option Id
	22001
(B) Rectangle	22002
(C) Triangle	22003
(D) Elliptical	22004
Right Answer:	22004
Rectangle	Right Option Id : 22002
Question 47 Question Id : 23	
Question 47 Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer:	
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is	Option Id
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1	Option Id
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2	
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1	23001
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2	23001
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2 (C) 2	23001 23002 23003
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2 (C) 2 (D) 1/4	23001 23002 23003
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2 (C) 2 (D) 1/4 Right Answer:	23001 23002 23003 23004
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2 (C) 2 (D) 1/4 Right Answer: 2 Question 48 Question Id: 49	23001 23002 23003 23004
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2 (C) 2 (D) 1/4 Right Answer: 2	23001 23002 23003 23004 Right Option Id : 23003
Question Id: 23 The ratio of hoop stress to longitudinal stress in thin walled cylinder is Answer: (A) 1 (B) 1/2 (C) 2 (D) 1/4 Right Answer: 2 Question 48 Question 1d: 49 What causes a short steel strut to fail?	23001 23002 23003 23004

(C) Buckling	49002
	49003
(D) Yielding	49004
Right Answer: Fracture	
	Right Option Id : 49001
Question 49 Question Id : 26	
If one end of a hinged column is made fixed and the other free, how much is the critical load compared to the original value? Answer:	
(A) One- fourth	Option Id
(B) One –half	26001
(C) Twice	26002
(D) Four times	26003
	26004
Right Answer: One- fourth	Right Option Id : 26001
Question 50 Question Id : 50	
Arrangement of silver, air, aluminum and lead in order of increasing thermal conductivity at room temperature yields Answer:	Option Id
(A) Air , Aluminium, Silver, Lead	50001
(B) Air, Aluminium, Lead, Silver	50002
(C) Lead, Air, Aluminium, Silver	50003
(D) Air, Lead, Aluminium, Silver	
Right Answer :	50004
Air, Lead, Aluminium, Silver	Right Option Id : 50004
Question 51 Question Id : 51 Which of the following have a highest thermal conductivity	
Which of the following have a highest thermal conductivity Answer:	Option Id
(A) Boiling water	51001

(C) Solid ice	51002
(D) Rain water	51003
Diale Avenue	51004
Right Answer: Solid ice	Right Option Id : 51003
Question 52 Question Id	. 52
The Fourier law of heat conduction is valid for Answer :	Option Id
(A) One dimension only	52001
(B) Two dimension only	
(C) Three dimension only	52002
(D) None of the given options	52003
	52004
Right Answer: One dimension only	Right Option Id : 52001
Question 53 Question Id	53
Question Id What is the dimension of kinematic viscosity of a fluid?	533 Option Id 53001
Question Id What is the dimension of kinematic viscosity of a fluid? Answer:	Option Id 53001
Question Id What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT ⁻²	Option Id 53001 53002
What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT ⁻² (B) L ² T ⁻¹	Option Id 53001 53002 53003
Question Id What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT-2 (B) L ² T-1 (C) ML- ¹ T- ¹ (D) ML- ² T- ²	Option Id 53001 53002
What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT-2 (B) L ² T-1 (C) ML-1T-1	Option Id 53001 53002 53003
Question Id What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT ⁻² (B) L ² T ⁻¹ (C) ML ⁻¹ T ⁻¹ (D) ML ⁻² T ⁻² Right Answer:	Option Id 53001 53002 53003 53004
Question Id What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT-2 (B) L ² T-1 (C) ML- ¹ T-1 (D) ML- ² T- ² Right Answer: L ² T-1	Option Id
What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT-2 (B) L ² T-1 (C) ML- ¹ T-1 (D) ML- ² T- ² Right Answer: L ² T-1	Option Id
Question Id What is the dimension of kinematic viscosity of a fluid? Answer: (A) LT ⁻² (B) L ² T ⁻¹ (C) ML ⁻¹ T ⁻¹ (D) ML ⁻² T ⁻² Right Answer: L ² T ⁻¹ Question 54 Gauge pressure at a point is equal to	Option Id

(C) Vacuum pressure plus absolute pressure	54002
(D) Vacuum pressure minus absolute pressure	54003
	54004
Right Answer : Absolute pressure minus atmospheric pressure	Right Option Id : 54002
Question 55 Question Id : 55	
The minor loss due to sudden contraction is due to Answer:	Option Id
(A) Flow contraction	55001
(B) Expansion of flow after sudden contraction	55002
(C) Boundary friction	
(D) Cavitation	55003
Dialet Assesses	55004
Right Answer: Expansion of flow after sudden contraction	Right Option Id : 55002
Question 56 Question Id : 56	
Question Id : 56 Newton's law of viscosity for a fluid states that the shear stress is	Option Id
Question Id : 56 Newton's law of viscosity for a fluid states that the shear stress is Answer:	Option Id 56001
Question Id : 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation	Option Id 56001 56002
Question Id: 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation (B) proportional to rate of angular deformation	Option Id 56001
Question Id: 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation (B) proportional to rate of angular deformation (C) inversely proportional to angular deformation	Option Id 56001 56002
Question Id: 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation (B) proportional to rate of angular deformation (C) inversely proportional to angular deformation	Option Id 56001 56002 56003
Question Id: 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation (B) proportional to rate of angular deformation (C) inversely proportional to angular deformation (D) inversely proportional to rate of angular deformation Right Answer: proportional to rate of angular deformation	Option Id
Question Id: 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation (B) proportional to rate of angular deformation (C) inversely proportional to angular deformation (D) inversely proportional to rate of angular deformation Right Answer: proportional to rate of angular deformation	Option Id
Question Id: 56 Newton's law of viscosity for a fluid states that the shear stress is Answer: (A) proportional to angular deformation (B) proportional to rate of angular deformation (C) inversely proportional to angular deformation (D) inversely proportional to rate of angular deformation Right Answer: proportional to rate of angular deformation Question 57 Question Id: 57 The critical value of Reynolds number for transition from laminar to turbulent boundary layer in external flows is taken as	Option Id

(C) 5x10 ⁵	57002
	57003
(D) 3x10 ⁶	57004
Right Answer: 5x10 ⁵	
3810	Right Option Id : 57003
Question 58	Overtion Id. 50
Centrifugal pump is started with its delivery valve Answer:	Question Id: 58
(A) Kept fully closed	Option Id
(B) Kept fully open	58001
(C) Kept 20% open	58002
	58003
(D) Kept 50% open	58004
Right Answer : Kept fully closed	
	Right Option Id : 58001
Question 59	
Which of the following is correct for Burger's Vector in screw dislocation?	Question Id : 59
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line	
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line	Option Id
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line	Option Id 59001
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line	Option Id 59001 59002
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line (D) Opposite to the dislocation line	Option Id 59001 59002 59003
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line (D) Opposite to the dislocation line	Option Id 59001 59002 59003
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line (D) Opposite to the dislocation line Right Answer: Parallel to dislocation line	Option Id 59001 59002 59003 59004
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line (D) Opposite to the dislocation line Right Answer: Parallel to dislocation line	Option Id 59001 59002 59003 59004
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line (D) Opposite to the dislocation line Right Answer: Parallel to dislocation line	Option Id
Which of the following is correct for Burger's Vector in screw dislocation? Answer: (A) Perpendicular to the dislocation line (B) Inclined to the dislocation line (C) Parallel to dislocation line (D) Opposite to the dislocation line Right Answer: Parallel to dislocation line	Option Id

	60002
(C) Normalizing	60003
(D) Cyaniding	60004
Right Answer: Cyaniding	Right Option Id : 60004
General English	
Question 61 Question Id: 70 Fill in the blank " has turned on the television "	
Answer: (A) who	Option Id
(B) how	70001
(C) when	70002
(D) where	70003
	70004
Right Answer: who	Right Option Id : 70001
Question 62 Question Id : 69	
change the following sentence from active to passive voice. "Everyone liked his performance " Answer:	Ontion Id
(A) his performance was liked by everyone	Option Id 69001
(B) his performance liked everyone	69002
(C) his performace was liked everyone by	69003
(D) his performance liked by everyone	69004
Right Answer: his performance was liked by everyone	
ins performance was incea by everyone	Right Option Id : 69001
Question 63 Question Id : 66	
Inform me in advance you are unable to attend the meeting. Answer:	
(A) although	Option Id 66001
(B) during	00001

(C) until	66002
(C) until	66003
(D) in case	66004
Right Answer :	
untii	Right Option Id : 66003
Question 64	
choose correct antonym of Foremost Answer:	Question Id: 68
(A) hindmost	Option Id
(B) unimortant	68001
(C) disposed	68002
(D) mature	68003
Divide American	68004
Right Answer : unimortant	Right Option Id : 68002
Question 65	Question Id: 67
Question 65 choose correct synonym . FOSTERING Answer :	
choose correct synonym . FOSTERING	Option Id
choose correct synonym . FOSTERING Answer :	Option Id 67001
choose correct synonym . FOSTERING Answer : (A) safeguarding	Option Id 67001 67002
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting	Option Id 67001 67002 67003
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting (C) ignoring (D) nurturing	Option Id 67001 67002
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting (C) ignoring	Option Id 67001 67002 67003
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting (C) ignoring (D) nurturing Right Answer : nurturing	Option Id 67001 67002 67003
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting (C) ignoring (D) nurturing Right Answer : nurturing	Option Id
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting (C) ignoring (D) nurturing Right Answer : nurturing Question 66 fill in the blanks with suitable words. Rukmanit Answer :	Option Id
choose correct synonym . FOSTERING Answer : (A) safeguarding (B) neglecting (C) ignoring (D) nurturing Right Answer : nurturing Question 66 fill in the blanks with suitable words. Rukmani	Option Id 67001 67002 67003 67004 Right Option Id: 67004

(C) will make	61002
	61003
(D) made	61004
Right Answer :	
made	Right Option Id : 61004
Question 67	Question Id: 65
Identify the adjective in the following sentence: "I want a blue shirt " Answer :	
(A) I	Option Id
(B) want	65001
	65002
(C) blue	65003
(D) shirt	C5004
	65004
Right Answer: blue	Bight Ontion Id. 65003
	Right Option Id : 65003
Question 68	
READ THE FOLLOWING PASSAGE AND ANSWER THE QUESTIONS THAT FO	Question Id: 64
	DLLOWS:
factors such as light and temperature. Bright sunlight darkens the skin. Or excited, angry, or scared. The change is rapid and increases when the change	The chameleon changes color ows it to blend in with its surroundings. The change is actually determined by environmental cool nights, the color fades to a creamy color. The color changes when the chameleon is meleon is handled, injured, or approached by another chameleon. There are many types of gascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern
to help it avoid its enemies. It is a form of camouflage, a disguise that allofactors such as light and temperature. Bright sunlight darkens the skin. Or excited, angry, or scared. The change is rapid and increases when the chanchameleons. Almost half of them are found on the African island of Mada	The chameleon changes color ows it to blend in with its surroundings. The change is actually determined by environmental ocol nights, the color fades to a creamy color. The color changes when the chameleon is meleon is handled, injured, or approached by another chameleon. There are many types of gascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern e chameleons can even use their sticky tongues to catch birds.
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to help it avoid its enemies. It is a form of camouflage, a disguise that allof factors such as light and temperature. Bright sunlight darkens the skin. On excited, angry, or scared. The change is rapid and increases when the charchameleons. Almost half of them are found on the African island of Mada Europe. Chameleons live in trees where they usually eat insects. Very large Question - What is the reason for a chameleon to change its skin color? Answer: (A) To attract its prey	The chameleon changes color lows it to blend in with its surroundings. The change is actually determined by environmental of cool nights, the color fades to a creamy color. The color changes when the chameleon is meleon is handled, injured, or approached by another chameleon. There are many types of gascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern to chameleons can even use their sticky tongues to catch birds. Option Id
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to help it avoid its enemies. It is a form of camouflage, a disguise that allot factors such as light and temperature. Bright sunlight darkens the skin. On excited, angry, or scared. The change is rapid and increases when the charchameleons. Almost half of them are found on the African island of Mada Europe. Chameleons live in trees where they usually eat insects. Very large Question - What is the reason for a chameleon to change its skin color? Answer: (A) To attract its prey (B) To communicate with other chameleons (C) To blend in with its surroundings	The chameleon changes color lows it to blend in with its surroundings. The change is actually determined by environmental in cool nights, the color fades to a creamy color. The color changes when the chameleon is meleon is handled, injured, or approached by another chameleon. There are many types of gascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern e chameleons can even use their sticky tongues to catch birds. Option Id 64001 64002
to help it avoid its enemies. It is a form of camouflage, a disguise that allot factors such as light and temperature. Bright sunlight darkens the skin. Or excited, angry, or scared. The change is rapid and increases when the charchameleons. Almost half of them are found on the African island of Mada Europe. Chameleons live in trees where they usually eat insects. Very large Question - What is the reason for a chameleon to change its skin color? Answer: (A) To attract its prey (B) To communicate with other chameleons (C) To blend in with its surroundings	The chameleon changes color lows it to blend in with its surroundings. The change is actually determined by environmental in cool nights, the color fades to a creamy color. The color changes when the chameleon is meleon is handled, injured, or approached by another chameleon. There are many types of gascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern e chameleons can even use their sticky tongues to catch birds. Option Id 64001

Question Id: 63 READ THE FOLLOWING PASSAGE AND ANSWER THE QUESTIONS THAT FOLLOWS: Chameleons can change their skin color, but not because they choose to. The chameleon changes color to help it avoid its enemies. It is a form of camouflage, a disguise that allows it to blend in with its surroundings. The change is actually determined by environmental factors such as light and temperature. Bright sunlight darkens the skin. On cool nights, the color fades to a creamy color. The color changes when the chameleon is excited, angry, or scared. The change is rapid and increases when the chameleon is handled, injured, or approached by another chameleon. There are many types of chameleons. Almost half of them are found on the African island of Madagascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern Europe. Chameleons live in trees where they usually eat insects. Very large chameleons can even use their sticky tongues to catch birds. -Question - What factors determine a chameleon's color change?

Answer:

(A) The food it eats

63001

Option Id

(B) The time of day

63002

(C) Light and temperature

63003

(D) The size of the chameleon

63004

Right Answer:

Light and temperature

Right Option Id: 63003

Question 70

Question Id: 62

READ THE FOLLOWING PASSAGE AND ANSWER THE QUESTIONS THAT FOLLOWS:

Chameleons can change their skin color, but not because they choose to. The chameleon changes color to help it avoid its enemies. It is a form of camouflage, a disguise that allows it to blend in with its surroundings. The change is actually determined by environmental factors such as light and temperature. Bright sunlight darkens the skin. On cool nights, the color fades to a creamy color. The color changes when the chameleon is excited, angry, or scared. The change is rapid and increases when the chameleon is handled, injured, or approached by another chameleon. There are many types of chameleons. Almost half of them are found on the African island of Madagascar. Others occur mostly in the Sahara desert, with a few in western Asia and southern Europe. Chameleons live in trees where they usually eat insects. Very large chameleons can even use their sticky tongues to catch birds. -

Question - How does bright sunlight affect a chameleon's skin color?

Answer:

Option Id

(A) It lightens the skin

62001

(B) It darkens the skin

62002

(C) It turns the skin blue

62003

(D) It has no effect on the skin color

62004

Right Answer:

It darkens the skin

Right Option Id: 62002

General Knowledge

Question 71

Question Id: 80

Who is known as the "Father of the White Revolution" in India for his pioneering efforts in transforming the dairy industry?

Answer:

Option Id

(A) M.S. Swaminathan

	80001
(B) Dr. Verghese Kurien	80002
(C) Durgesh Patel	80003
(D) Sam Pitroda	
Diale Avance	80004
Right Answer: Dr. Verghese Kurien	
Question 72 Question Id : 77	
Which country has won the ICC Women's Cricket World Cup 2023 ? Answer:	Option Id
(A) England	77001
(B) South Africa	
(C) India	77002
(D) Australia	77003
	77004
Right Answer : Australia	
	Right Option Id : 77004
Question 73	Right Option Id : 77004
Question 73 Question Id: 79 " Swaraj is my birthright and I shall have it," who said these words? Answer:	
Question Id: 79 " Swaraj is my birthright and I shall have it," who said these words?	Option Id
Question Id: 79 " Swaraj is my birthright and I shall have it," who said these words? Answer:	
" Swaraj is my birthright and I shall have it," who said these words ? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak	Option Id
" Swaraj is my birthright and I shall have it," who said these words ? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak (C) Lala Lajpat Rai	Option Id 79001
" Swaraj is my birthright and I shall have it," who said these words ? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak	Option Id 79001 79002
" Swaraj is my birthright and I shall have it," who said these words ? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak (C) Lala Lajpat Rai	Option Id 79001 79002 79003
"Swaraj is my birthright and I shall have it," who said these words? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak (C) Lala Lajpat Rai (D) K.T. Telang Right Answer:	Option Id 79001 79002 79003
" Swaraj is my birthright and I shall have it," who said these words? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak (C) Lala Lajpat Rai (D) K.T. Telang Right Answer: Bal Gangadhara Tilak	Option Id
"Swaraj is my birthright and I shall have it," who said these words? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak (C) Lala Lajpat Rai (D) K.T. Telang Right Answer: Bal Gangadhara Tilak Question 74 Question 1d: 78 R21/Matrix-M, which was recently approved, is the vaccine against which disease?	Option Id
"Swaraj is my birthright and I shall have it," who said these words? Answer: (A) Gopal Krishna Gokhale (B) Bal Gangadhara Tilak (C) Lala Lajpat Rai (D) K.T. Telang Right Answer: Bal Gangadhara Tilak	Option Id

(B) Malaria	78002
(C) Tuberculosis	
(D) Influenza	78003
	78004
Right Answer : Malaria	Right Option Id : 78002
Question 75	
Why carbon dioxide is called a greenhouse gas ? Answer:	Question Id: 76
(A) Because they absorb heat	Option Id
(B) Because they absorb moisture	76001
(C) Because they absorb oxygen	76002
	76003
(D) Because they absorb hydrogen	76004
Right Answer : Because they absorb heat	
	Diabt Oution Id. 70001
	Right Option Id : 76001
Question 76	
Question 76 Which Crop is Sown in the Largest Area in India ? Answer:	Question Id : 71
Which Crop is Sown in the Largest Area in India ?	
Which Crop is Sown in the Largest Area in India ? Answer:	Question ld: 71
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley	Question Id : 71 Option Id
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley (C) Maize	Question Id : 71 Option Id 71001
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley	Question Id : 71 Option Id 71001 71002
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley (C) Maize	Question ld : 71 Option ld 71001 71002 71003
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley (C) Maize (D) Rice	Question Id : 71 Option Id 71001 71002
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley (C) Maize (D) Rice	Question Id : 71 Option Id 71001 71002 71003 71004 Right Option Id : 71004
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley (C) Maize (D) Rice Right Answer: Rice	Question ld : 71 Option ld 71001 71002 71003
Which Crop is Sown in the Largest Area in India ? Answer: (A) Wheat (B) Barley (C) Maize (D) Rice Right Answer: Rice Question 77 Which year the Right to Information (RTI) Act was passed ?	Question Id : 71 Option Id 71001 71002 71003 71004 Right Option Id : 71004

(C) 2012 (C) 2012 (D) 2006 (D) 2006 Right Answer: 2005 Right Option Id: 75001 Question 78 Question 14: 74 Betl Bachao, Betl Padhao' (BBBP) Yojana of Govt. of India addresses about the - Answer:
Right Answer: 2005 Right Option Id: 75001 Question 78 Question Id: 74 "Beti Bachao, Beti Padhao" (BBBP) Yojana of Govt. of India addresses about the - Answer: (A) Prevention of gender blased sex selective elimination (B) Ensuring survival & protection of the girl child (C) Ensuring educatin and participation of the girl child (D) All of the given options Right Answer: All of the given options Question 79 Question 79 Question 79 Question 10: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: (A) Bhopal
Right Answer: 2005 Question 78 Question 1d: 74 "Beti Bachao, Beti Padhao' (BBBP) Yojana of Govt. of India addresses about the - Answer: Option Id (A) Prevention of gender biased sex selective elimination (B) Ensuring survival & protection of the girl child (C) Ensuring educatin and participation of the girl child (D) All of the given options Right Answer: All of the given options Question 79 Question 79 Question 79 Question 79 Question 79 Question 10: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: Option Id (A) Bhopal
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Question 79 Question 79 Question 10 Question 17 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: (A) Bhopal Question 19 Answer: Option Id (A) Bhopal
(B) Ensuring survival & protection of the girl child (C) Ensuring educatin and participation of the girl child (D) All of the given options (D) All of the given options (Right Answer: All of the given options Question 79 Question 1d: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: (A) Bhopal
(C) Ensuring educatin and participation of the girl child (D) All of the given options (D) All of the given options (D) All of the given options (Eight Answer: All of the given options (Right Option Id: 74004) Question 79 Question 79 Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at Answer: (A) Bhopal
(C) Ensuring educatin and participation of the girl child 74003 (D) All of the given options Right Answer: All of the given options Question 79 Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at -Answer: (A) Bhopal (A) Bhopal
(D) All of the given options Right Answer: All of the given options Right Option Id: 74004 Question 79 Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: (A) Bhopal (A) Bhopal
Right Answer: All of the given options Right Option Id: 74004 Question 79 Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: Option Id (A) Bhopal 73001
All of the given options Right Option Id: 74004 Question 79 Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: Option Id (A) Bhopal
Question 79 Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: (A) Bhopal Option Id 73001
Question Id: 73 The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: Option Id (A) Bhopal
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The National Institute of Research in Tribal Health (NIRTH) is situated at - Answer: Option Id (A) Bhopal
Option Id (A) Bhopal 73001
73001
(B) Jabalpur
72000
(C) New Delhi
73003
(D) Pune 73004
Right Answer:
Jabalpur Right Option Id : 73002
Question 80
Question Id : 72 Which of the following rivers is NOT a major river flowing through Uttar Pradesh ?
Answer: Option Id
(A) Ganga 72001

(B) Yamuna	72002
(C) Godavari	72002
(D) Ghaghara	72003
	72004
Right Answer : Godavari	
	Right Option Id : 72003
Reasoning	
Question 81 Question Id : 90	
In a certain code language, THANKS is written as HTNASK How is COMMON written in that language? Answer:	
(A) ONMMCO	Option Id
	90001
(B) OOMMNC	90002
(C) OCMNMO	90003
(D) OCMMNO	
	90004
Right Answer: OCMMNO	District Advantage of the Control of
	Right Option Id : 90004
OCMMNO Question 82	Right Option Id : 90004
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi?	Right Option Id : 90004
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer:	Right Option Id : 90004 Option Id
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi?	
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer:	Option Id
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father	Option Id 89001 89002
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle	Option Id 89001 89002 89003
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle (C) Brother	Option Id 89001 89002
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle (C) Brother	Option Id
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle (C) Brother (D) maternal uncle Right Answer:	Option Id 89001 89002 89003
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle (C) Brother (D) maternal uncle Right Answer: Father	Option Id
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle (C) Brother (D) maternal uncle Right Answer: Father Question 83 Question Id: 88 Amrita ranks 9th in a class of 56 students. What is her rank from the bottom?	Option Id
Question 82 Question Id: 89 Introducing Ruchi, Mukesh said that his father is the only son of my father, so tell me how Mukesh is related to Ruchi? Answer: (A) Father (B) Uncle (C) Brother (D) maternal uncle Right Answer: Father Question 83 Question Id: 88	Option Id

(D) C741-	88001
(B) 67th	88002
(C) 66th	88003
(D) None of the given options	88004
Right Answer:	
None of the given options	Right Option Id: 88004
Question 84	
Question Id: 87 If 5th May 2003 is Monday, what will be the day on 5th May 2004? Answer:	
(A) Tuesday	Option Id
(P) Wednesday	87001
(B) Wednesday	87002
(C) Thursday	87003
(D) Friday	87004
Right Answer:	
Right Answer : Wednesday	Right Option Id : 87002
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ?	
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer:	
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer: (A) 10	Right Option Id : 87002
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer:	Right Option Id: 87002 Option Id
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer: (A) 10	Right Option Id : 87002 Option Id 86001 86002
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer: (A) 10 (B) 12	Option Id 86001 86002 86003
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer: (A) 10 (B) 12 (C) 18 (D) 19	Right Option Id : 87002 Option Id 86001 86002
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer: (A) 10 (B) 12 (C) 18	Option Id 86001 86002 86003 86004
Question 85 Question Id: 86 In the following number series, which number will replace the question mark? 4, 2, 5, 4, 7, 6, 10, 8, 14, ? Answer: (A) 10 (B) 12 (C) 18 (D) 19 Right Answer:	Option Id 86001 86002 86003

Question Id: 85

In the following number series, which number will replace the question mark? 23, 29, 31, 37, 41, 43, ?

Answer:

(A) 45	85001
(B) 53	85002
(C) 47	85003
(D) 49	85004
Right Answer : 47	Right Option ld : 85003
Question 87 Question Id: 84	
Which of the following will complete the given series? 1, 6, 15, (?), 45, 66, 91 Answer:	
(A) 25	Option Id
(B) 26	84001
(C) 27	84002
(D) 28	84003 84004
Right Answer: 28	Right Option Id : 84004
Question 88 Question Id: 83 arrange the words given below in a meaningful sequence: 1. police 2. punishment 3. crime 4. judge 5. judgement	
Answer : (A) 3,1,2,4,5	Option Id
(B) 1,2,3,4,5	83001
(C) 5,4,3,2,1	83002
(D) 3,1,4,5,2	83003
	83004
Right Answer : 3,1,4,5,2	Right Option Id : 83004

Question 89	
If CUP : LIP :: BIRD : ? Answer :	Question Id: 82
(A) GRASS	Option Id
	82001
(B) FOREST	82002
(C) BEAK	
(D) BUSH	82003
	82004
Right Answer :	
BEAK	Right Option Id : 82003
Question 90	Question Id: 81
Look at this series: 80,10,70,15,60,what should be the next number Answer:	
(A) 20	Option Id
(D) 25	81001
(B) 25	81002
(C) 30	01003
(D) 50	81003
	81004
Right Answer:	
20	Right Option Id: 81001
	Mathematical Aptitude
Question 91	Question Id : 99
What is the sum of the sides of a trangle ? Answer:	
(A) The length of its sides	Option Id
- · · · · · · · · · · · · · · · · ·	99001
(B) its area	99002
(C) its perimeter	33002

Right Answer:

(D) All the given options

its perimeter

Right Option Id: 99003

99003

99004

Question 92	
Question Id: 98	
Arun is the father of Rohit. Rohit is the brother of Mala. Mala is Dilip's wife. How is Dilip related to Rohit?	
Answer:	
	Option Id
(A) Brother-in-law	
	98001
(B) Father	
	98002
(C) Uncle	
(C) Officie	
	98003
(D) Son	
\- <i>\</i>	00004
	98004
Right Answer:	
Brother-in-law	
	Right Option Id: 98001
Question 93	
Question Id: 97	
Which instrument is used to measure or construct angles ?	
Answer:	
	Option Id
(A) Compasses	
	07004
	97001
(B) A scale	
	07003
	97002
(C) A protractor	
	97003
	37003
(D) Set squares	
	97004
	03733
Right Answer:	
A protractor	
	Right Option Id : 97003
Question 94	
Question Id: 96	
M is the latgest numbe which when rounded off to the nearest hundreds gives 63500. N is the smallest number which	h when rounded off to the nearest thousands gives
150000. What is the sum of M and N?	
Answer:	
	Option Id
(A) 202049	
	96001
	96001
(B) 231409	
	96002
	30002
(C) 213049	
	96003
	33333
(D) 213490	
	96004
Direct Amounts	
Right Answer:	
213049	Dight Oution Id. 06003
	Right Option Id: 96003

Question 95	on ld : 91
Find the difference obtained when 9/40 is subtracted from 23/40 Answer:	on ld : 91
(A) 25/40	Option Id
(B) 14/40	91001
(C) 31/40	91002
	91003
(D) 32/40	91004
Right Answer: 14/40	
.,,	Right Option Id : 91002
Question 96	
Quest If $(2,0)$ is a solution of the linear equation $2X + 3Y = K$, then the value of k is: a	on Id : 94
Answer:	Option Id
(A) 4	94001
(B) 6	94002
(C) 5	94003
(D) 2	94004
Right Answer :	
4	Right Option Id : 94001

Question 98	uestion Id : 92
Waheeda bought an ai cooler for Rs. 3300 including a tax of 10%. The price of Answer:	
(A) Rs. 2000	Option Id
	92001
(B) Rs. 3000	92002
(C) Rs. 2500	
(D) Rs. 2800	92003
	92004
Right Answer : Rs. 3000	
KS. 3000	Right Option Id: 92002
Question 99 Qu	uestion Id : 95
By what number is 19/25 lesser than 27/25 ? Answer:	
(A) 8/25	Option Id
(B) 5/25	95001
(b) 3/23	95002
(C) 6/25	95003
(D) 9/25	
	95004
Right Answer : 8/25	
	Right Option Id : 95001
Question 100	
	estion Id: 100
Answer:	Option Id
(A) 0	100001
(B) 1	100001
(C) Reciprocal Parts	100002
	100003
(D) Excerpt	100004
Right Answer :	
1	Right Option Id : 100002