NRL GET Mechanical

Previous Year Paper 23 Sept 2021 Shift 3


## Section : GET-Mechanical

Q. 1 The lowest frequency of the transverse vibration is called

Ans $\times 1$. underdamped frequency
$\times 2$. natural frequency
3. fundamental frequency

X 4. damped frequency

## Q. 2 One of the reasons for the occurrence of natural convection is:

Ans 1. the density change of fluid
2. the velocity and density change of fluid
3. the molecular structure changes of a fluid
$\times 4$. the velocity change of fluid

Q. 3 Which of the following is NOT true about mechanical comparators?

Ans
$X 1$. They are compact.
2. They are difficult to handle
$X$ 3. They have a limited scale.4. They are low cost.
Q. 4


The given fringe pattern indicates that the work piece under observation has a $\qquad$ .

Ans
X 1. None of the given options
$X$ 2. curved surface
$\times$
3. horizontal surface
4. tapered surface
Q. 5 Which of the following statements is TRUE for conical and single plate clutches, both having the same internal and external diameter and co-efficient of friction?

Ans

1. The torque transmission capacity of the conical clutch is higher.

2 . The torque transmission capacity of either can be higher or lower.3. The torque transmission capacity of the conical clutch is lower.
4. The torque transmission capacity of both is the same

## Q. 6 Liquid and gases transfer heat mainly due to:

Ans $\quad \times 1$. both conduction and radiation
$\times$ 2. radiation
3. convection

X4. conduction
Q. 7 Which of the following is the expression for work done by a curved plate when the plate is moving in the direction of jet?
Ans

1. $\rho \mathrm{a}(\mathrm{v}-\mathrm{u})^{2} \mathrm{u}(1+\cos \theta)$

X2. $\rho \mathrm{a}(\mathrm{v}-\mathrm{u})^{2} \mathrm{u}(\cos \theta)$
X 3. $\rho \mathrm{a}(\mathrm{v}-\mathrm{u}) \mathrm{u}(1+\cos \theta)$
X4. $\rho \mathrm{a}(\mathrm{v}-\mathrm{u})^{2} \mathrm{u}(1+\cos 2 \theta)$
Q. 8 Which of the following is more than one in a multistage centrifugal pump?

Ans $\times 1$. Turbines
X 2. Magnetic pumps
3. Impellers

X 4. Pumps

Q. 9 Which of the following are typical problems related to centrifugal pumps?

1. No or low flow, 2. No or low pressure, 3. Excessive power consumption, 4. Excessive noise or vibration, 5 . Seal leakage
Ans
X1.1,2,4,5
$\times 2.1,2,3,4$
2. 1, 2, 3, 4, 5

X4.2,3,4,5
Q. 10 The most popular material used for runner blades is $\qquad$ -.

Ans
X 1. steel
$\times$ 2. cast iron
3. cast steel4. wrought iron

Q. 11

The provision of fins on a heat transfer surface can be made more effective by having

Ans number of $\qquad$ fins.
less; thin
X 2. large; thick
X 3. less; thick4. large; thin
Q. 12 The term 'thermodynamics' was first used in 1849 by:

Ans $\times 1$. Rudolph Clausius
2. Lord Kelvin

X 3. Sadi Carnot
X 4. William Rankine

Q. 13 The properties that are independent of the mass in the system are called:

Ans
$\chi 1$. extensive properties
Х 2. complex properties
$X$
3. intense properties4. intensive properties
Q. 14 Which of the following are the examples of reaction turbines?

Ans
$\times 1$. Propeller, Pelton and Francis
2. Propeller, Francis and Kaplan
$\times$
3. Pelton, Kaplan and Francis
4. Propeller, Kaplan and Pelton

Q. 15 The radius of gyration of a uniform rod of length $L$ and total mass of the rod $M$ about an axis normal to it at its centroid is:

Ans
$\times 1 . \frac{L}{6}$
$\times 2 . \frac{L}{3 \sqrt{2}}$
X3. $\frac{L}{\sqrt{6}}$

- $4 \frac{L}{2 \sqrt{3}}$


## Q. 16 In a Mohr's circle, the maximum shear stress is:

Ans $\quad \times 1$. the diameter of the Mohr's circle

- 2. greater than the radius of the Mohr's circle3. the maximum distance of the Mohr's circle from the origin

4. the radius of the Mohr's circle

Q. 17 For the longitudinal vibration, the restoring force or restoring couple is proportional to:

Ans
$\times 1$. velocity
X 2. acceleration
$\times$ 3. rate of change of acceleration
4. displacement
Q. 18 A particular tool, while machining at $30 \mathrm{~m} / \mathrm{min}$ and $60 \mathrm{~m} / \mathrm{min}$ was found to have a tool life of 80 mins and 8 mins , respectively. Determine the tool life equation.

Ans
$\times 1 . \mathrm{VT}^{3.33}=\mathrm{C}$
2. $V T^{0.3}=C$

X 3. $\mathrm{VT}^{5}=\mathrm{C}$
X4. $\mathrm{VT}^{0.5}=\mathrm{C}$

Marks: 1

## Q. 19 Which of the following is TRUE?

Ans
$X 1$. Heat flow $=$ thermal potential difference $\times$ thermal resistance2. Heat flow = thermal resistance / thermal potential difference3. Heat flow $=$ thermal potential difference + thermal resistance
4. Heat flow $=$ thermal potential difference $/$ thermal resistance
Q. 20 The part program entered into CNC can be utilised:

Ans
$X 1$. None of the given options
Х 2. multiple times, but should be modified every time
3. multiple times
$\times 4$. only once
Q. 21 For the frame to be deficient, the relation between joints and members will be:

Ans
X1. $m>2 j-3$
X2. $2 \mathrm{j}=\mathrm{m}+3$
X $3.2 \mathrm{j}=\mathrm{m}-3$
4. $m<2 j-3$
Q. 22 Shearing force is applied to a beam of rectangular section. The ratio of maximum and average shear stress is:

Ans
$\times 1.1 .75$
X2. 1.25
$\times 3$.
4. 1.5
Q. 23 A cantilever beam has the Cross - section of an isosceles triangle (each side is 2 m ). The beam is subject to 6 m N - m of bending moment. The moment of inertia of the section is $\frac{1}{18} \mathrm{~m}^{4}$. Find the maximum bending stress in MPa .
Ans
X1. $\frac{1}{36}$
2. 72
$\times 3.36$
$\times 4 . \frac{1}{72}$
Q. 24 The boundary of a system:

Ans $\quad \times 1$. is always movable
2. can be fixed or movable
$X 3$. is always fixed
$\times 4$. is neither fixed nor movable
Q. 25 All sections of a beam have the same value of $\qquad$ in a beam of uniform strength.
Ans
X 1. moment of inertia
2. bending stress
$\times 3$. strain
X4. bending moment
Q. 26 The prominent function of centrifugal pumps is to transfer $\qquad$ and transport

Ans
$\qquad$ —"2. pressure; fluid
3. energy; fluid
4. temperature; fluid
Q. 27 In a plane and ground end helical spring, how many coils are inactive?

Ans

2. 2

X 3.0
$\times 4.3$
Q. 28 Which of the following options is NOT an advantage of CNC?

Ans 1. Improved product strength
X 2. Improved productivity
X 3. Safe operation
X 4. Reduction in scrap rate
Q. 29 Which of the following coordinate systems is useful for the systems which have symmetry about a point?

Ans1. Spherical coordinates
2. Cartesian coordinates
3. Cylindrical coordinates4. Rectangular coordinates
Q. 30 The heat dissipation in bearing is NOT proportional to which of the following?

Ans $\quad \times 1$. Temperature gradient between bearing surface and surrounding
$\times 2$. Heat dissipation constant
X 3. Projected area4. Co-efficient of friction
Q. 31 A cantilever of length ' $L$ ' is carrying a point load ' $P$ ' at the free end. What will be the maximum deflection if the flexural rigidity is ' El '?
Ans
X 1. PL ${ }^{3} / 48 \mathrm{El}$
2. $\mathrm{PL}^{3} / 3 \mathrm{El}$3. $\mathrm{PL}^{2} / 3 E \mathrm{I}$
$\times$
4. $\mathrm{PL}^{3} / \mathrm{E} \mid$
Q. 32 What is the maximum load that can be applied to a helical spring if the mean pitch diameter is 25 mm , the cross-section diameter is 2.5 mm , the spring index C is 6.5 , and the ultimate shear stress is $\mathbf{1 0 0} \mathrm{MPa}$ with a factor of safety of $\mathbf{2 ?}$

Ans
$\times 1.19 .92 \mathrm{~N}$2. 9.96 N3. 12.27 N
4. 24.92 N
Q. 33 Which of the following thermodynamic approaches is concerned directly with the structure of matter?
Ans

1. Both Microscopic approach and Statistical thermodynamics
2. Only Statistical thermodynamics3. Only Microscopic approach
3. Only Classical thermodynamics
Q. 34 In the context of gear trains, the contact of portions of tooth profiles that are NOT conjugate are known as:

Ans

1. contact ratio

X 2. undercutting
3. tolerance
4. interference
Q. 35 In centrifugal pumps, priming is done to:

Ansincrease discharge
2. reduce discharge3. remove air from parts of the pump
4. increase pressure
Q. 36 Forecasting is under usually done under:

Ans $\times 1$. control phase
2. planning phase3. action phase
4. scheduling

Q. 37 When the elements on the surface of the shaft move along the circumference of the shaft, the vibrations are called:

Ans
X 1. damped vibrations
X 2. longitudinal vibrations3. transverse vibrations
4. torsional vibrations
Q. 38 Suppose an internal combustion engine is chosen as a system. Identify its surrounding from the given options.

Ans
$\times 1$. Piston ring
2. Atmospheric air
$\times 3$. Exhaust emissions
4. Charge in the engine
Q. 39 What will be the characteristic length for a sphere?

Ans
$1 . R / 3$
$\times 2 . R / 4$
$\times 3 . R / 6$
$\times 4 . R / 2$
Q. 40 Calculate the vertical height ( h ) of a Watt governor when it rotates at 100 rpm .

Ans $\quad X 1 . \mathrm{h}=0.025 \mathrm{~m}$
2. $\mathrm{h}=0.0895 \mathrm{~m}$3. $\mathrm{h}=0.095 \mathrm{~m}$

X4. $\mathrm{h}=0.195 \mathrm{~m}$

Q. 41 Identify the CORRECT statements about a hydroelectric power plant from the following:
a) Potential energy of water is the prime source of energy
b) Water head is important so that potential energy is converted into kinetic energy
c) As quantity of water stored increases, the amount of electrical energy produced increases
Ans
1.a, b
2. a, b, c

X 3.a, c
X4.b, c

## Q. 42 The speed at which the shaft begins to vibrate violently is equal to the:

Ans

1. natural frequency of transverse vibration

人 2. natural frequency of torsional vibration
3. natural frequency of longitudinal vibration
4. combined natural frequency of longitudinal and transverse vibration
Question Type: MCQ
Question ID : 308920925
Status: Answered

Chosen Option : 1
Marks : 1
Q. 43 If the differential element on the rod moves in the direction perpendicular to the longitudinal axis, then the vibration is called:

Ans

1. transverse
2. both longitudinal and transverse
$\times$ 3. longitudinal4. torsional
Q. 44 What will be the theoretical discharge of a double-acting reciprocating pump? (Stroke length $\mathbf{=} \mathbf{2 5 0} \mathbf{~ m m}$, bore $=150 \mathrm{~mm}$ and crank speed $\mathbf{= 6 0} \mathbf{~ r p m}$ )

Ans
X 1.2 .2 litres/s
2. 8.8 litres/s
3. 4.4 litres/s

X 4.8 litres/s
Q. 45 How many groups of variables can be formed of non-dimensional parameters if a dimensionally homogeneous equation contains ' $n$ ' variables with ' $m$ ' primary dimensions?
Ans
X1. $\mathrm{n} \times \mathrm{m}$
2. $n-m$

X3.n-2m
X4.n/m

## Q. 46 The indeterminate truss has:

Ans $\times 1$. number of unknown forcres are equal to the available equilibrium equations.
X 2. number of unknown forcres and the available equilibrium equations has no relations.3. number of unknown forcres are more than the available equilibrium equations.4. number of unknown forcres are less than the available equilibrium equations.

Question Type : MCQ
Question ID: 308920977
Status: Answered
Chosen Option : 3
Marks : 1
Q. 47 A balloon into which air is being inflated can be considered as:

Ans
X 1. an isolated system
X 2. a closed system3. a surrounding4. an open system

## Q. 48 Power is defined as:

Ans $\times 1$. Time take $/$ Work done
X 2. Work done x Time take
3. Work done / Time taken

X 4. Power output / Power input
Question Type: MCQ
Question ID : 308920976
Status : Answered

Status: Answered
Chosen Option : 3
Marks : 1
Q. 49 A body moving with a uniform acceleration covers 20 m in the $6^{\text {th }}$ second and 30 m in the $10^{\text {th }}$ second. The uniform acceleration of the body is:
Ans
$\times 1.2 .76 \mathrm{~m} / \mathrm{sec}^{2}$
2. $1.5 \mathrm{~m} / \mathrm{sec}^{2}$
3. $2.5 \mathrm{~m} / \mathrm{sec}^{2}$
4. $1.25 \mathrm{~m} / \mathrm{sec}^{2}$
Q. 50 In which of the following are the runner blades fixed?

Ans 1. Propeller turbine
X 2. Kaplan turbine
X 3. Pelton turbine
$\times 4$. Francis turbine
Question Type: MCQ
Question ID : 308920932
Status : Answered

Status: Answered
Chosen Option : 3
Marks: 0

## Q. 51 Drilling is a

$\qquad$ _.
Ans $\quad \times 1$. None of the given options2. single point cutting operation
3. multi-point cutting operation4. thermal operation
Q. 52 A block weighing 2500 N , overlying a $10^{\circ}$ wedge on a horizontal floor and leaning against a vertical wall, is to be raised by applying a horizontal force to the wedge. The coefficient of friction between all surface contacts is 0.3 . The minimum horizontal force required to raise the block is:
Ans

1. 3295.9 N
$\times 2.1546 .1 \mathrm{~N}$
2. 2364 N

X4.2650 N

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Question Type : MCQ
Question ID: 308920905
Status: Answered
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Chosen Option : 2
Marks : 0
Q. 53 The state of a simple compressible system is completely specified by how many independent, intensive properties?

Ans
$\times 1$. Four2. Three3. Two
4. One
Q. 54 Which of the following temperature measuring instruments is a function of electromotive force in the circuit?

Ans

1. Thermocouples2. Resistance temperature detectors
2. Liquid-in-glass thermometers
3. Optical pyrometers
Q. 55 In reciprocating pumps, the discharge is $\qquad$ at the middle of the stroke and becomes $\qquad$ during the suction stroke.
Ans
X 1. zero; minimum
$X$ 2. minimum; zero3. maximum; zero
4. zero; maximum
Q. 56 At any time $t$, the position of a particle moving along a straight line is prescribed by a relation: $x=3 t^{2}-6$. From its initial position at $t=0$, the particle will attain a velocity of $54 \mathrm{~m} / \mathrm{sec}$ after:
Ans
1.9 sec

X2. 8 sec
X 3.12 sec
$\times 4.15 \mathrm{sec}$
Question Type: MCQ
Question ID : 308920909
Status: Answered

Chosen Option: Marks : 1
Q. 57 In a pump, mechanical energy is converted into $\qquad$
Ans
X 1. potential energy
2. pressure and kinetic energy3. kinetic energy4. pressure energy
Q. 58 In the CNC part programming, G03 and G91 refers to:

Ans $\quad \times 1$. circular interpolation in a counter clockwise direction and absolute dimension
2. circular interpolation in a counter clockwise direction and incremental dimension3. circular interpolation in a clockwise direction and incremental dimension4. circular interpolation in a clockwise direction and absolute dimension
Q. 59 Which of the following calorimeters is normally used when the value of the dryness fraction is very low?
Ans
X 1. Bomb calorimeter2. Bucket calorimeter3. Separating and throttling calorimeter
4. Throttling calorimeter
Q. 60 Find the modulus of rupture for a rectangular section (breadth ' $b$ ' and depth ' $d$ ') simply supported beam when it was tested under bending. The ultimate bending moment recorded was ' $M$ '.

Ans
X $1.12 \mathrm{M} / \mathrm{bd}^{2}$
X $2.8 \mathrm{M} / \mathrm{bd}^{2}$
3. $6 \mathrm{M} / \mathrm{bd}^{2}$4. $24 \mathrm{M} / \mathrm{bd}^{2}$

## Q. 61 In the context of ball bearings, what is meant by basic load rating?

Ans $\quad \times 1$. It is that load which a group of apparently identical bearings can withstand for a rating life of one revolution.
2. It is that load which a group of apparently identical bearings can withstand for a
rating life of one million revolutions.
X 3. It is that load which a group of apparently identical bearings can withstand for a rating life of one hundred thousand revolutions.
X 4. It is that load which a group of apparently identical bearings can withstand for a rating life of one thousand revolutions.
Q. 62 How many angles can be determined using two angle gauges?

Ans $\times 1.1$

- 2.2
$\times 3.5$
$\times 4.4$

Q. 63 The maximum inclination of the plane on which a body, free from external forces, can sleep is called:

Ans
$X$ 1. the inclination angle
X 2. the angle of wrap3. the angle of friction
4. the angle of repose
Q. 64 In a thermal boundary layer, the fluid temperatures are affected by:

Ans $\times 1$. viscosity
$\times 2$. fluid velocity
X 3. fluid pressure4. heating or cooling from the surface wall

Question Type : MCQ
Question ID: 308920947
Status: Answered
Chosen Option : 1
Marks: 0
Q. 65 Grinding is a

Ans
$X 1$. non-traditional machining operation2. single point machining process
-
3. multi-point machining process4. None of the given options

## Q. 66 A body with $5 \mathrm{~m} / \mathrm{sec}$ of velocity has a kinetic energy of 1.5 joules. What is the mass of

 the body?Ans

1. 0.12 kg
$X$
2. 0.6 kg
3. 0.2 kg

X 4.0 .5 kg

## Q. 67 The parameter that remains constant in the beams of uniform strength is:

Ans. the maximum bending stress
2. the bending moment
3. the deflection
4. the shear force
Q. 68 What is the reaction at points $A$ and $B$ for the given figure?


Ans
X1. $56.3 \mathrm{kN}, 91.6 \mathrm{kN}$
X $2.56 .3 \mathrm{kN}, 94 \mathrm{kN}$
2. $42.6 \mathrm{kN}, 89.4 \mathrm{kN}$

Х4. $42.6 \mathrm{kN}, 91.6 \mathrm{kN}$
Q. 69 A string whose extreme $A$ is fixed has weights $W 1$ and $W 2$ attached to it at $B$ and $C$, respectively, and passes around a smooth peg D carrying a weight of 730 N at the free end E . If in a state of equilibrium, BC is horizontal and AB and CD make angles of $135^{\circ}$ and $110^{\circ}$, respectively, with $B C$, the weights $W 1$ and $W 2$ will be $\qquad$ and $\qquad$ , respectively.


Ans
<1.353 N; 685.9 N
<2.353 N; 730 N
入3. $249.67 \mathrm{~N} ; 353 \mathrm{~N}$
4. 249.67 N; 685.9 N
Q. 70 The study of relationship between the load on hand and capacity of the work centers is known as:
Ans

1. Loading
$\times 2$. Scheduling
X 3. Controlling4. Routing
Q. 71 In which of the following categories is wind energy classified?

Ans
X 1 . Commercial energy
$\times 2$. Non-renewable energy
3. Renewable energy4. Conventional energy

## Question Type : MCQ <br> Question ID: 308920927 <br> Status : Answered

Chosen Option : 3
Marks : 1
Q. 72 Fourier's equation of heat conduction presumes:

Ans. one dimensional heat flow2. wall surfaces have nonuniform temperature
$X$
3. unsteady state conditions4. two dimensional heat flow

## Q. 73 Which of the following statements is CORRECT about stable lubrication?

Ans 1. Rise in the temperature leads to decrease in the viscosity, decrease in the coefficient of friction.
X 2. Rise in the temperature leads to decrease in the viscosity, increase in the co-efficient of friction.
X 3. The viscosity and co-efficient of friction remain stable.
X 4. Rise in the temperature leads to rise in the viscosity, decrease in the co-efficient of friction.
Q. 74 The orientation of a beam (section $240 \mathrm{~mm} \times 80 \mathrm{~mm}$ ) is changed to horizontal, whereas it was designed to be placed vertically. The ratio of the load carrying capacity in the two cases (first case to the second case) will be:
Ans
$\times 1 \frac{1}{6}$
$\times 3$.
-4. $\frac{1}{3}$

## Q. 75 By using which of the following principles is the direction of jet when subject to

 propulsive force found?Ans
X1. Bernoulli's equation2. Impulse momentum equation
3. Navier-Stokes equation4. Newton's third law
Q. 76 In a simple band brake, the tension in the taut side:

Ans1. increases as a cubic function
2. increases exponentially as the friction increases3. increases linearly as the friction increases
4. decreases linearly as the friction increases
Q. 77 Calculate the co-efficient of friction if the Somerfield number is 5 and the radial clearance is 200.
Ans

1. 0.49
$\times$
2. 0.25

- 3. 0.12
$\times 4.0 .15$

Question Type : MCQ
Question ID: 308920971
Status : Answered
Chosen Option :
Marks: 0
Q. 78 A system is in thermodynamic equilibrium if it is in:

Ans
$X 1$. only mechanical equilibrium
2. only chemical equilibrium3. chemical, mechanical, phase and thermal equilibrium
4. only thermal equilibrium
Q. 79 A material is subject to normal stresses $\left(\sigma_{\mathrm{x}}\right.$ and $\left.\sigma_{\mathrm{y}}\right)$ on two perpendicular planes along with shear stress $\tau_{\mathrm{xy}}$. If one of the principal stresses is zero, which of the following holds TRUE?

Ans
x 1. $\tau_{\mathrm{xy}}=\sqrt{\left(\sigma_{x}+\sigma_{y}\right)}$
x 2. $\tau_{\mathrm{xy}}=\left(\sigma_{\mathrm{x}} \mathrm{x} \sigma_{\mathrm{y}}\right) / 2$
x 3. $\tau_{\mathrm{xy}}=\left(\sigma_{\mathrm{x}} \mathrm{x} \sigma_{\mathrm{y}}\right)$
4. $\tau_{\mathrm{xy}}=\sqrt{\left(\sigma_{x} x \sigma_{y}\right)}$

## Q. 80 The bending stress in a beam varies directly with:

Ans

1. the polar moment of inertia
< 2. the moment of inertia

- 3. the distance from the neutral axis
<4. the cross section of the beam

[^0]
Q. 2 Which among the following Articles deals with 'Abolition of Titles'?

Ans $\begin{aligned} & \text { 1. Article } 18 \\ & \times 2 . \text { Article } 17 \\ & \times 3 . \text { Article } 15 \\ & \times 4 . \text { Article } 16\end{aligned}$

## Q. 3 Which of the following is the first National Academy of Performing Arts established by

 the Republic of India?1. Sangeet Dance Akademi
2. National Dance Akademi
( 3. Noopur Dance Akademi
3. Sangeet Natak Akademi
Q. 4 Which among the following Prime Minister articulated India's vision of regional economic integration based on enhanced intra-regional trade, investment flows and interconnectivity, at the last SAARC Summit held in the Maldives in November 2011?
Ans
4. Manmohan Singh
5. Inder Kumar Gujral3. Atal Bihari Vajpayee
6. P. V. Narasimha Rao
Q. 5 Alexander invaded India in $\qquad$ .
Ans $\times 1.426 \mathrm{BC}$
$\times 2.226 \mathrm{BC}$
7. 326 BC
$\times 4.526$ BC
Q. $6 \ldots \ldots$ is the maintenance of a relatively constant internal environment in the cells of an organism.

Ans
X 1. Osmoregulation
2. Homeostasis
$\times 3$. Physiology
X 4. Excretion
Q. 7 HRIDAY (National Heritage City Development and Augmentation Yojana) comes under:

Ans
$X$ 1. Ministry of Rural development
2. Ministry of Housing and Urban Affairs

X 3. Ministry of Corporate Affairs
X 4. Ministry of Finance

Chosen Option : $\mathbf{2}$
Marks : 1

## Section : English

## Q. 1 Select the word that is ANTONYM (opposite in meaning) to the word given below.

## Turpitude

Ans

1. Decency
2. Abuse
$\times$
3. Immorality
4. Arrogant

## Q. 2 Select the most appropriate meaning of the given phrase.

## A fly in the ointment.

Ans

1. To find someone unexpectedly.2. A flaw or imperfection that spoils the whole thing

X 3. A dangerous situation
4. To be perceived in a wrong manner.
Question Type : MCQ
Question ID : 308920991
Status : Answered

Status: Answered
Chosen Option: 2
Marks: 1
Q. 3 The sentence below has been divided into three parts. Select the part of the sentence that has an error. If the sentence has no error, select the option 'No Error'.

Their year is divided into 13 months, / 12 of which has have 30 days each; the / 13th month has five days, or six if it is a leap year. / No Error
Ans
X 1 . Their year is divided into 13 months,
2. 12 of which has have 30 days each; the

X 3. 13th month has five days, or six if it is a leap year.
X4. No Error

## Q. 4 Select the most appropriate 'one word ' for the expressions given below.

## Changing the direction of one's path suddenly.

Ans

- 1. Direct

2. Steer
3. Veer
4. Bend

Chosen Option: 2 Marks: 0
Q. 5 Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.

You cannot sell (them or disposed them) without the permission of the finance company.
Ans
$\Varangle 1$. No correction required.2. them or dispose out them
3. them or dispose of them
4. them or dispose off them

## Q. 6 Four words are given, out of which only one word is spelt incorrectly. Choose the

 INCORRECT spelt word.Ans
X 1. HIERARCHY
X 2. BEHAVIOURAL
X 3. lecture
4. HAEMETOLOGY
Q. 7 Select the word that is SYNONYM (similar in meaning) to the word given below.

## Detest

Ans
X1. Wisdom
X 2. Admire
3. Loathe

X4. Respect

[^1]
## Q. 1 Out of the given options, three are similar in a certain manner. However, one option is

 NOT like the other three. Select the option which is different from the rest.Ans
X1.119
2. 171
$\times 3.272$
$\times 4.51$
Q. 2 Find the wrong term in the following letter series.

KML, OQP, SUT, WXY, ACB
Ans
X1. SUT
$\times 2$ OQP
X 3. KML
4. WXY

## Q. 3 In the question given below, there are two statements marked as Assertion (A) and

 Reason (R). Mark your answer as per the codes in options.
## Assertion (A): Tea becomes cold after some time when kept outside.

Reason (R): Heat flows from a hotter object to a colder object till they attain the same temperature.

Ans
X 1. Both $A$ and $R$ are true but $R$ is not the correct explanation of $A$.
2. Both $A$ and $R$ are true and $R$ is the correct explanation of $A$.

X 3. A is false but R is true
$X 4$. A is true but R is false.
Q. 4 Select the option that is related to the third term on the same basis as the second term is related to the first term.

223: $12:: 768$ : ?
Ans
<1.567
×2. 442

- 3.336

X4. 109

Q. 6 Find the missing term in the following number series.

Ans

$\times 2.8$

- 3.4
$\times 4.12$


[^0]:    Section : General Knowledge and Current Affairs

[^1]:    Section : Reasoning \& Numerical Ability

