|           |                         | N   | BookletCode : C   |
|-----------|-------------------------|---|---|
| Note      | : (1)                   | ) Answer all questions.   |   |
|           | (2)                     | ) Each question carries 1 mark. There are   | e no negative marks   |
|           | (3)                     | Answer to the questions must be ente<br>separately by Completely shading with   | tered only on OMR Answer Sheet  |
|           | (4)                     | The OMR Answer Sheet will be invalid<br>more than one circle is shaded against  | idated if the circle is shaded using Pencil or if   |
|           |                         | Section A : Mechanic  | cal Engineering   |
| 1.        | Atom                    | nic packing factor of BCC structure is  |   |
|           | (1)                     | (2) 2   | 3) 3 (4) 4  |
| 2.        | (1)                     | ometing out process   | r metallurgy process is  2) atomization - compacting - sintering  4) compacting - atomization - sintering |
| 3.        | (1)<br>(2)<br>(3)       | liquid metal changes to cementite and au<br>ferrite changes to cementite and austeni<br>austenite changes to ferrite and cementi<br>cementite and ferrite combine to form a | ustenite<br>ite<br>ite  |
|           | (1)                     | precipitation margining   | with (2) carbo-nitriding (4) normalizing  |
| i         | A medinstant            | taneous centers of reaction will be   | irs except one which is ternary. The number of (3) 21 (4) 28  |
| 5. \<br>( | Which (1) A (2) A (3) b | one of the following is false for instantantaneous center of rotation,  | one rigid link rotates instantaneously relative to  |
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- In a link AB, the part B moves relative to A. If  $\omega$  is the angular velocity and  $\alpha_{AB}$  is the angular 7. acceleration, the total acceleration of B relative to A will be:
  - (1)  $\omega_{AB}^2 \times AB + \alpha \times AB$

- (2)  $\omega_{AB} \times AB + \alpha \times AB$
- (3)  $\sqrt{(\omega_{AB}^2 \times AB)} + \alpha \times AB$
- $(4) \quad \sqrt{\omega_{AB}^2 \times AB + \alpha \times AB}$
- Power transmitted by an involute gear is given by: 8.

(F<sub>T</sub>, F<sub>R</sub>, v are Tangential force, Radial force and velocity respectively)

(1)  $P = F_T \times v$ 

(2)  $P = F_R \times v$ 

(3)  $P = (F_T + F_R) \times v$ 

(4)  $P = (F_T - F_R) \times v$ 

- In a reverted gear train 9.
  - (1) The axes of first and the last gear are parallel
  - The axes of the first and last gear are co-axial (2)
  - (3) One gear is always fixed
  - Speed of last gear must be higher than speed of the first gear (4)
- In a reciprocating horizontal engine, the inertia forces due to reciprocating mass help the 10. piston effort at
  - (1)  $\theta = 30^{\circ}$

(2)  $\theta = 45^{\circ}$ 

(3)  $\theta = 120^{\circ}$ 

- (4)  $\theta = 180^{\circ}$
- When the frequency of external exciting force is equal to the natural frequency of vibration of 11. the system,
  - (1) the amplitude of vibration is zero
  - the amplitude of vibration is insignificantly small (2)
  - the amplitude of vibration is very large (3)
  - the amplitude of vibration may be large or small depending upon the magnitude of frequency (4)
- A mass m attached to a shaft rotating at radius r from axis of a shaft is balanced by mass B at 12. radius b from axis of the shaft in the same plane of rotation. The necessary condition of balancing is
  - $m\omega r = Bwb$

(2) mr = Bb

 $\frac{m\omega^2}{m} = \frac{Bw^2}{m}$ 

 $(4) \quad \frac{m}{B} = \frac{r}{h}$ 

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- 13. A cotter and key can be compared by which of the following statement
  - (1) Cotter is used to connect a rod which is subjected to axial loading, whereas keys are used in for twisting moment
  - Cotter are used to connect shafts transmitting twisting moments whereas keys are used for axial loading
  - Both cotters and keys are used for axial loading (3)
  - Both cotters and keys are used for twisting moment
- Which one of the following holds true for coupling and clutch 14.
  - a coupling cannot be engaged / disengaged frequently
  - a clutch can be engaged / disengaged frequently
  - both (1) and (2) are true (3)
  - (4) both (1) and (2) are false
- Idler pulley in belt drives is used when 15.
  - high velocity ratio is desired at a long distance
  - high velocity ratio is desired at a short distance (2)
  - when long life of the belt is desirable (3)
  - high forces are required to be transmitted (4)
- Velocity ratio of a flat belt drive with pulley radius R1 and R2, belt thickness is 't' and slip 16. factor 's' will equal

(1) 
$$VR = \frac{2R_2 + t}{2R_1 + t}(1 + s)$$

(2) 
$$VR = \frac{R_2 + t}{R_1 + t} (1 + s)$$

(3) 
$$VR = \frac{R_2 + 2t}{R_1 + 2t}(1 - s)$$

(4) 
$$VR = \frac{2R_2 + t}{2R_1 + t}(1 - s)$$

- The force required to move an object of F Newton downwards with the help of a power screw 17. with  $\phi$  angle of friction and  $\alpha$  helix angle of the screw will be (1)  $\operatorname{Ftan}(\phi - \alpha)$  (2)  $\operatorname{Ftan}(\phi + \alpha)$  (3)  $\operatorname{Ftan}(\phi \times \alpha)$  (4)  $\operatorname{Ftan}(\phi / \alpha)$

- Net reaction of ground on wheels due to gyroscopic couple due to wheels and the dead weight and centrifugal force of a vehicle negotiating a curve
  - increases on inner wheels and decreases on outer wheels (1)
  - decreases on inner wheels and increases on outer wheels (2)
  - decreases on all the wheels (3)
  - increases on all the wheels (4)

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| 19  | <ol> <li>for uniform wear is greater than that for uniform pressure</li> <li>for uniform wear is lesser than that for uniform pressure</li> <li>for uniform wear is equal to that of uniform pressure</li> <li>for uniform wear may be more or less and cannot be predicted</li> </ol>  |
| 20. | First law of thermodynamics for steady flow  (1) accounts for all energy entering and leaving a control volume  (2) is an energy balance for a specified mass of fluid  (3) is primarily concerned with heat transfer  (4) is an expression of the conservation of linear momentum  |
| 21. | The processes of a Carnot cycle are (1) two adiabatic and two isothermals (3) two isothermals and two isentropic (4) two isothermals  |
| 22. | Kelvin Plank's law deals with  (1) conversion of energy  (3) conversion of heat into work  (4) conversion of work into heat   |
| 23. | What is the highest possible theoretical efficiency of a heat engine operating with a hot reservoir of furnace gases at 527°C, when the cooling water is available at 27°C  (1) 33%  (2) 50% (3) 66% (4) 75%  |
| 24. | <ul> <li>Which of the following statements is correct</li> <li>(1) Dew point temperature can be measured with the help of thermometer</li> <li>(2) Dew point temperature is the saturation temperature corresponding to the partial pressure of water vapors in moist air</li> <li>(3) Dew point temperature is the same as the thermodynamic wet bulb temperature</li> <li>(4) For saturated air, dew point temperature is less than the wet bulb temperature</li> </ul> |
| 25. | When the fuel is burned and water is released in the liquid phase, the heating value of fuel is called  (1) higher heating value  (2) lower heating value  (3) enthalpy of formation  (4) latent heat value   |
| 26. | The clearance volume in reciprocating air compressors is provided to  (1) reduce the work done per kilogram of air delivered  (2) to increase the volumetric efficiency of the compressor  (3) to accommodate valves in the head of the compressor  |

(4) to create turbulence in the air to be delivered

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| 27. | The   | ermal efficiency of c  | losed cycle gas turb   | ine inc                                     | reases by   |           |                |  |  |
|     | (1)   | reheating (2   | 2) intercooling  |   | regenerator   | (4) al    | I of the above |  |  |
| 28. | In a (1) (2) (3) (4)  | work ratio improv<br>thermal efficiency  | e plant with intercood d thermal efficiency es but thermal effic improves but work iency and work rati | oling ar<br>y impro<br>iency o<br>c ratio o | nd re-heating<br>ove<br>lecrease<br>lecreases       |           |                |  |  |
| 29. | In a<br>(1)<br>(3)  |  | d 20% in nozzle  | (2)   | es place in the<br>70% in turbing<br>50% in turbing | e and 309 | % in nozzle    |  |  |
| 30. |   | value of reheat fact<br>0.42 to 0.64 (2  | or in steam turbines 2) 0.61 to 0.82   |   | ally varied from                                    |           | 1.2 to 1.6     |  |  |
| 31. | <ol> <li>In Rankine cycle, the work output from the turbine is given by</li> <li>change of internal energy between inlet and outlet</li> <li>change of enthalpy between inlet and outlet</li> <li>change of entropy between inlet and outlet</li> <li>change of temperature between inlet and outlet</li> </ol> |  |  |   |   |           |                |  |  |
| 32. | Fin   | effectiveness equal  |  |   |   |           |                |  |  |
|     | (1)   |  | ansfer rate from fin   |   |   |           |                |  |  |
|     | (1)   | heat transfer rate   | from a standard fin  | butof                                       | the same size                                       |           |                |  |  |
|     | (2)   | heat transfer rate   | )  |   |   |           |                |  |  |
|     | (2)   |  | heat transfer rate f   |   |   | 1 .       |                |  |  |
|     | (3)   | heat transfer rate   | from an identical fi   | n of in                                     | finite thermal                                      | conduct   | ivity          |  |  |
|     |   | heat tra   | nsfer rate from fin  | surfac                                      | e   |           |                |  |  |
|     | (4)   | heat transfer rate   | from an identical fi   | n mad                                       | e of copper   |           |                |  |  |
| 3.  | Fund<br>(1)<br>(3)  | amental laws used. The laws of consecutive the laws of | in heat transfer are   |   | Newton's la   |           | notion         |  |  |





- 34. For incompressible flow, the pumping power is given by the expression.
  - (1) (Pressure drop) × (volumetric flow rate)
  - (2) (Average pressure) × (volumetric flow rate)
  - (3)  $\frac{1}{2} \times \text{(Average pressure)} \times \text{(volumetric flow rate)}$
  - $\frac{3}{4}$  × (pressure drop) × (volumetric flow rate) (4)
- In case of built-up edge in a machining process, which of the following statements is true 35.
  - It is an edge provided on the cutting tool by the tool manufacturer
  - It consists of layers of material from the workpiece that are gradually deposited on the tool (2)
  - A thick built-up edge is desirable and improves cutting efficiency (3)
  - A thick built-up edge improves the surface finish of the machined surface (4)
- Select from the following ascending order of cutting tool materials hardness 36.
  - Ceramics High carbon steel High speed steel Diamond
  - Ceramics High speed steel High carbon steel Diamond (2)
  - High speed steel High carbon steel Ceramics Diamond (3)
  - High carbon steel High speed steel Ceramics Diamond (4)
- Which one of the following is true in case of tool life 37.
  - It is directly proportional to the cutting speed (1)
  - It is inversely proportional to the cutting speed (2)
  - Does not depend on the cutting speed (3)
  - No equation is available that helps roughly calculate the cutting speed (4)
- Select the correct sequence of manufacturing processes in the ascending order of accuracy 38.
  - Reaming Honing Boring Drilling (1)
  - Drilling Boring Honing Reaming (2)
  - Drilling Reaming Boring Honing (3)
  - Drilling Honing Boring Reaming (4)
- Knurling process is used with a purpose to: 39.
  - (1) Generate a rough surface for gripping (2) To make tapered hole in a part
- To create stepped hole in a part (4) It is another name of tapping operation
- What is the meaning of the following NC code statement: N20 G91X 20Y 10 40.
  - Statement number 20 move the tool incrementally by X=20, Y=10 and Z=0 (1)
  - Statement number 20 move the tool to X=20 and Y=10, Z=0 position (2)
  - Statement number 20 drill a hole with dia = 20 and depth = 10 (3)
  - Statement number 20 drill a step hole with dia 20 and 10 (4)

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| 41. | 3-2-<br>(1)<br>(2)<br>(3)<br>(4) | I principle of locating the job in a fixtu-<br>using 3, 2 and 1 pins on three sides of<br>using 3 sides for the base, 2 on the top<br>using 3 pins for the base and 2 and 1 or<br>using 3 pins for the base, 1 on the top | the job<br>and I<br>on side            | on the side   |
| 42. | Read a) b) c) d) (1)             | the following statements with respect<br>Shrinkage allowance for a casting are<br>Distortion allowance is provided to th<br>in their sections.<br>Shaking or rapping allowance is a nega-                                 | to cas<br>indepe<br>ose ca<br>ative al | ting of parts and select the correct answer:<br>endent of the casting material<br>stings which exhibit uniform cooling rates          |
| 43. | (3)<br>A ris<br>(1)<br>(3)       | Only statements (c) and (d) are true<br>er compensates for the shrinkage that he<br>only molten stage<br>solid stage  | (2)                                    | Only statements (a) and (d) are true as in the casting process during: only solidification stage both molten and solidification stage |
| 44. | (1)                              | sistance welding voltage and current are high voltage and current are low   | (2)<br>(4)                             | voltage is high and current is low<br>voltage is low and current is high  |
| 45. | (1)                              | mit welding uses a mixture of the follo<br>iron oxide and sodium<br>iron oxide and alumina  | (2)                                    | iron oxide and aluminium iron, nickel and magnesium   |
|     | (1)                              | h of the following resistance welding<br>spot welding<br>seam welding   | (2)<br>(4)                             | esses essentially uses wheels as electrodes<br>projection welding<br>flash butt welding   |
|     | (1)                              | osition of most commonly used sold<br>Tin 60% and Lead 40%<br>Tin 40% and Lead 60%  | (2)                                    | alloy is:<br>Tin 50% and Lead 50%<br>Tin 35% and Lead 65%   |
|     |                                  | of the following statements is not a perforating (2) notching   |  | metal working operation<br>slitting (4) upsetting   |
| (   | (1) i<br>(2) i<br>(3) i          | one of the following is most suitable t has three rotational and two translate t has three translational and two rotate s a CNC machine where machining of s useful only for complex geometry p                           | tion a<br>tional<br>can be             | xis   |
| 4EC |                                  |   | -C                                     | P.T.C   |



- 50. Taguchi loss function is
  - (1) is a good method of production planning
  - (2) is commonly used in inventory control
  - (3) is a good method of production scheduling
  - (4) a concept used in tolerance design
- 51. Heat supplied (kJ kg-1) to the cycle is
  - (1) 2372
- (2) 2576
- (3) 2863
- (4) 3092
- 52. Consider an actual regenerative Rankine cycle with one open feed water heater. For each kg steam entering the turbine, if m kg steam with a specific enthalpy of h<sub>1</sub> is bled from the turbine, and the specific enthalpy of liquid water entering the heater is h<sub>2</sub>, then h<sub>3</sub> specific enthalpy of saturated liquid leaving the heater is equal to
  - (1)  $mh_1 (h_2 h_1)$

(2)  $h_1 - m(h_2 - h_1)$ 

(3)  $h_2 - m(h_2 - h_1)$ 

- (4)  $mh_2 (h_2 h_1)$
- 53. What is the efficiency of an ideal regenerative Rankine cycle power plant using saturated steam at 327°C and pressure 135 bar at the inlet to the turbine and condensing temperature of 27°C (corresponding saturation pressure of 3.6 kPa)?
  - (1) 92%
- (2) 33%
- (3) 50%
- (4) 42%
- 54. Which one of the following is the correct statement?

The degree of reaction of an impulse turbine:

- (1) is less than zero
- (2) is greater than zero
- (3) is equal to zero
- (4) increases with steam velocity at the inlet
- 5. In a two-row Curtis stage with symmetrical blading
  - (1) Work done by both rows of moving blades are equal
  - (2) Work done by the first row of moving blades is double of the work done by second row of moving blades
  - (3) Work done by the first row of moving blades is three times the work done by second row of moving blades
  - (4) Work done by the first row of moving blades is four times the work done by the second row of moving blades

| -          |                          |  |                                 | N  | ]                  |                              | Rook                  | large 7                     | বা                     |
|------------|--------------------------|--|---------------------------------|--|--------------------|------------------------------|-----------------------|-----------------------------|------------------------|
| 56         | (1)<br>(2)<br>(3)<br>(4) | three phase balant respective phase line currents la line currents la line currents le line currents le line currents le | ig behii<br>ig behii<br>ad thei | nd their respect<br>nd their respect<br>ir respective ph | tive phas          | se currents by 3             | n between             | letCode : (                 | ind                    |
| 57.        | . The (1)                | pointer of an inc<br>copper  | dicating<br>(2)                 | g instrument is<br>aluminium                             | general            | ly made of silver            | ·<br>(4) sc           | oft steel                   |                        |
| 58.<br>59. | (3)                      | material used m<br>constantium<br>nicrome<br>alternator is ope   |                                 |  | (2)<br>(4)         | maganin<br>gold chromiu      | m                     |                             |                        |
|            | (1)<br>(3)               | always positive<br>zero  |                                 |  | (2)<br>(4)         | always negati<br>independent | ve                    |                             |                        |
| 60.        | (1)<br>(3)               | lathes, pumps an<br>3-phase induct<br>dc compound r  | ion mo<br>notor                 | otor   | (2)<br>(4)         | dc series mo<br>synchronous  | tor<br>motor          |                             |                        |
| 61.        | throu                    | nply supported a ligh-out. It is also lent in the beam   | o appli                         | ed with a poin   |                    |                              |                       |                             |                        |
|            | (1)                      | 2 kNm  | (2)                             | 3 kNm  | (3)                | 4 kNm                        | (4)                   | 5 kNm                       |                        |
| 62.        |                          | el rod 20 m lo<br>erature is increa  |                                 |  | two en             | ds. The stress               | s induced             | in the rod v                | when its               |
|            | _                        | 0.6 GPa  |                                 | 0.8 GPa  | (3)                | 1.0 GPa                      | (4)                   | 1.2 GPa                     |                        |
| 63.        | A bea<br>bendi<br>beam   | am of rectanguing moment of 2 is:  | lar cro<br>20 kNn               | ss-section of<br>n. Stress deve                          | breadth<br>loped a | 10 cm and on tail and of     | depth 20<br>10 cm fro | om is subjection the top fa | cted to a<br>ce of the |
|            | (1)                      | Zero   | (2)                             | 10 kPa   | (3)                | 20 kPa                       | (4)                   | 30 kPa                      |                        |
| 64.        | Comp                     | are a circular shater. The ratio of  | aft of 10<br>the ma             | 0 cm diameter<br>ximum stresse                           | es devel           | oped in the soi              | lid and noi           | low shart wi                | n internal<br>Il be    |
|            | (1)                      |  | (2)                             | 1:8  | (3)                | 1:16                         | (4)                   | 1:32                        |                        |
| (MEC       | CH)                      |  |                                 |  | 11-C               |                              |                       |                             | P.T.O.                 |







Bulk modulus for a material is 200 GPa and its Poisson's ratio is 0.3. Young's modulus for that 65.

material will be

(1) 120 GPa

(2) 160 GPa

(3) 210 GPa

(4) 240 GPa

The Euler's buckling load for an Aluminium bar 2 m long with cross-section of 10 mm × 12 mm, hinged at both the ends will equal:

(1)  $36 \pi^2$ 

(2)  $72 \pi^2$ 

(3)  $144 \pi^2$ 

(4)  $154 \pi^2$ 

A load applied at center of the carriage spring to straighten its leaves is known as

Yield load

(2) Ultimate load (3) Proof load

(4) Safe load

A piece of wood having a mass of 4 kg floats in a liquid of specific gravity 0.8 gm/cm<sup>3</sup>, 68. what will be the specific gravity of the wood piece if 75% of its volume is inside the liquid? (Assume  $g = 10 \text{ m/s}^2$ )

(1)  $0.4 \,\mathrm{gm/cm^3}$ 

(2)  $0.6 \,\mathrm{gm/cm^3}$ 

 $(3) 08 \text{ gm/cm}^3$ 

(4) 1.0 gm/cm<sup>3</sup>

69. A rectangular plate surface 2 m wide and 4 m deep lies in vertical plane in water. What will be the pressure and center of pressure when the upper edge is 2 m below the surface? (Assume  $g = 10 \text{ m/s}^2$ )

(1) 80 kN

(2) 120 kN

(3) 160 kN

(4) 320 kN

70. What will be volume of water displaced for buoyancy for a wooden block of width 2 m and depth 1 m. Density of wooden block is  $700 \text{ kg/m}^3$  and its length is 4 m. (Assume g =  $10 \text{ m/s}^2$ )

(1)  $2.8 \,\mathrm{m}^3$ 

(2) 5.6 m<sup>3</sup>

(3) 11.2 m<sup>3</sup>

(4) 22.4 m<sup>3</sup>

The diameter of a pipe at two sections (section 1 and section 2) is 2 cm and 4 cm respectively. The velocity through the point at section 1 is 5 m/s, the velocity at section 2 will equal:

(1) 1.0 m/s

1.25 m/s (2)

(3) 2.5 m/s

(4) 5.0 m/s

Water is flowing through a pipe of 5 cm diameter under a pressure of 0.5 MPa and mean 72. velocity of 2.0 m/s. What is total head of water at a cross section, which is 4 m above the datum level? (Assume  $g = 10 \text{ m/s}^2$ )

(1) 45.5 m

(2) 47.2 m

(3) 52.4 m

(4) 55.2 m

The basic continuity equation for compressible fluid is. (Symbols used have usual meanings)

(2)  $\frac{dV}{2V} + \frac{dA}{2A} + \frac{d\rho}{\rho} = 0$ 

 $VdV + AdA + \rho d\rho = 0$ 

(4)  $\frac{dV}{V} + \frac{dA}{A} + \frac{d\rho}{\rho} = 0$ 

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| 74. | The force exerted by a jet of water of 40 mm diameter on a flat stationary plate, when the jet strikes the plate normally with 20 m/s velocity. (1) $40 \pi\text{N}$ (2) $80 \pi\text{N}$ (3) $120 \pi\text{N}$ (4) $160 \pi\text{N}$  |
| 75. | <ul> <li>Which one of the following is false</li> <li>(1) Pelton wheel turbine is an axial flow turbine</li> <li>(2) If at the inlet of the turbine, the energy available is only kinetic energy, the turbine is known as impulse turbine</li> <li>(3) Radial flow turbines are those in which water flows in the radial direction</li> <li>(4) In Francis turbine, the water leaves in the radial direction</li> </ul>  |
| 76. | The rotating part of the centrifugal pump is called  (1) Impeller  (2) Rotor  (3) Compressor  (4) Centrifuge   |
| 77. | Heating the medium carbon steel to above recrystallization temperature and rapidly cooling by quenching causes (1) hardening due to formation of troosite (2) annealing of steel and relieving of stresses (3) normalizing of steel and forming of fine grain structure (4) hardening due to formation of martensite   |
| 78. | <ul> <li>Read the following statements and select the correct answer.</li> <li>a) Ferrite is α iron (BCC) which does not have more than 0.025% of carbon in solid form</li> <li>b) Cementite is iron carbide (Fe<sub>3</sub>C), which has 6.67% of carbon</li> <li>c) Tempering is used for relieving the internal stresses</li> <li>(1) Statements a and b are true and c is false</li> <li>(2) Statements a and c are true and b is false</li> <li>(3) Statements b and c are true and a is false</li> <li>(4) Statements a, b and c are true</li> </ul> |
| 79. | The carbon percentage in eutectoid steel is (1) 0.5% (2) 0.8% (3) 1.2% (4) 2.14%   |
| 80. | Which of the following heat treatment process is not a method of case-hardening  (1) nitriding  (2) quenching  (3) cyaniding  (4) induction hardening  |

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|   |     |
|   | 1.4 |

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## Section B: General Awareness and Numerical Ability

| (1) N. Sanjee                             |             | ed during the C                  |           | P.V. Narsimha            |            |                                   |
|---|-------------|----------------------------------|-----------|--------------------------|------------|-----------------------------------|
| (3) T. Anjaiah                            | 1           |                                  | (4)       | N.T. Rama Ra             | ю          |                                   |
| 82. Who created the                       | e Emblem    | of Telangana                     | state.    |                          |            |                                   |
| (1) Ale Laxma                             | าก          |                                  | (2)       | Andesree                 |            |                                   |
| (3) Venkanna                              |             |                                  | (4)       | Gaddar                   |            |                                   |
| 83. If $\sqrt{3} = 1.732$ , th            |             | <b>v</b> .                       |           |                          |            |                                   |
| (1) 4.330                                 | (2)         | 2.009                            | (3)       | 1.224                    | (4)        | 3.585                             |
| number if the rat                         | at is the d | lifference between the digits of | veen the  | sum and the ober is 1:3? | difference | of the digits of the              |
| (1) 3                                     | (2)         | 4                                | (3)       | 5                        | (4)        | 6                                 |
| 85. When a produce of 10%. What we        |             |                                  |           | -                        | -          | uct, he earns a profit<br>by 12%? |
| (1) 25                                    | (2)         | 30                               | (3)       | 35                       | (4)        | 40                                |
| 86. If 20 pumps can r<br>will 12 pumps ra |             |                                  |           |                          |            | y; in how many day                |
| (1) 4                                     | (2)         | 5                                | (3)       | 6                        | (4)        | 7                                 |
| 87. Through which d                       |             |                                  |           |                          |            | ate with each other               |
| (1) System Bus                            | (2)         | Keyboard                         | (3)       | Monitor                  | (4)        | Memory                            |
| 38. Which of the follo                    | owing me    | mory is non-                     | volatile? |                          |            |                                   |
| (1) SRAM                                  | (2)         | DRAM                             | (3)       | ROM                      | (4)        | All the above                     |
| 9. Microsoft Word is                      | an exan     | ple of                           |           |                          |            |                                   |
| (1) An Operating                          | g System    |                                  | (2)       | Application              | Software   |                                   |
| (3) Processing D                          | Device      |                                  | (4)       | System Sof               | tware      |                                   |
|   |             |                                  |           |                          |            |                                   |

|                 |   |   |  | N  |               |   | Boo         | okletCode : C                                     |  |  |
|-----------------|---|---|--|--|---------------|---|-------------|---|--|--|
| 90.             | 3.5   | nting system is n<br>Application<br>System  | nost c   | ommon type of  | (2)           | Software. Communication Word processing                 |             |   |  |  |
| 91.             | One compound expression is incorrect. White (1) Court Martial (3) Poet Laureate   |   |  |  |               | ch one? (2) Chairman Deputy (4) Secretary General       |             |   |  |  |
| 92.             | Polluta) b) c) d)   | accommodate it                              | fined<br>gy to t<br>is disp<br>the e<br>of any | he environment<br>ersion, breakdown<br>environment can | at<br>wn, re  |   | in so       | ome harmless form                                 |  |  |
| 93.             |   | do you always _<br>interpose                |  | me when I try to<br>intercede                          | ask a         |   | (4)         | interrupt   |  |  |
| 94.             |   | are several<br>impressions                  |  | at describe the si<br>expressions                      | tate of       |   | (4)         |   |  |  |
| 95.             | (1)   | has been appo<br>Anil Kumble<br>Ajay Jadeja | inted  | as President of C                                      | -             | t Association of I<br>Sachin Tendulka<br>Sourav Ganguly |             | 11?   |  |  |
| 96.             | Group<br>(1)  |   | Tran   |  | retary<br>(2) |   | moo         | High Level Advisory<br>n for three years?<br>aran |  |  |
| 97.             | Visves  | warayya?                                    |  | Day in India. It<br>January 17                         |               |   |             | September 15                                      |  |  |
| 98.             | A 100 A   | Winterkorn, C                               | EO c   | of auto<br>Ford  | mobil         |   | (4)         | Volkswagen  |  |  |
| <del>)</del> 9. | (1) 1   | Rudradeva                                   | (2)  |  | (3)           | Ganapathi deva  |             |   |  |  |
| 100.            | CONTRACTOR MATERIAL STATE OF THE SECOND STATE | Mughal empe<br>Babur                        | (2)  | nquered the Go<br>Akbar                                | lcond<br>(3)  | a kingdom on 16<br>Shahjahan                            | 87 A.<br>(4 | .D.<br>) Aurangazeb                               |  |  |
|                 |   |   |  |  |               |   |             |   |  |  |
| (ME             | CH)   |   |  | 1  | 5-C           |   |             |   |  |  |