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| 1 | | Fluid is defined as a substance which |
| | a | Is incompressible |
| | b | Is highly compressible |
| | c | Deforms under the action of shear stress |
| | d | Is not affected by shear stress |
| | | Ans C |
| 2 | | The ratio of specific weight of liquid to specific weight standard liquid (water 4°C) is Known as |
| | a | Weight density |
| | b | Specific volume |
| | c | Specific gravity |
| | d | compressibility |
| | | Ans C |
| 3 | | Specific gravity of liquid is 0.9 its specific weight is |
| | a | 10900N/m ³ |
| | b | 900N/m ³ |
| | c | 8829N/m ³ |
| | d | 8.829N/m ³ |
| | | Ans C |
| 4 | | The unit of specific gravity is |
| | a | Kg/m ³ |
| | b | N/m ³ |
| | c | N/m ² |
| | d | None of the above |
| | | Ans d |
| 5 | | Viscosity of a fluid is also called as |
| | a | Dynamic viscosity |
| | b | Absolute viscosity |
| | c | Coefficient of viscosity |
| | d | All of the above |

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| | | Ans d |
| 6 | | In case of liquids viscosity is due to |
| | a | cohesion |
| | b | adhesion |
| | c | Molecular momentum exchange |
| | d | All of the above |
| | | Ans a |
| 7 | | In case of gases viscosity is due to |
| | a | cohesion |
| | b | adhesion |
| | c | Molecular momentum exchange |
| | d | All of the above |
| | | Ans c |
| 8 | | Newton's law of viscosity is related to |
| | a | Shear stress and pressure |
| | b | Shear stress and velocity gradient |
| | c | Pressure, velocity and viscosity |
| | d | Stress and strain in a fluid |
| | | Ans b |
| 9 | | In case of liquids, viscosity |
| | a | Decreases with the decrease in temperature |
| | b | Decreases with rise in temperature |
| | c | Does not change with temperature |
| | d | Does not change with pressure |
| | | Ans b |
| 10 | | In case of gases, viscosity |
| | | Decreases with the decrease in temperature |
| | | Decreases with rise in temperature |
| | | Does not change with temperature |

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| | | Does not change with pressure |
| | | Ans a |
| 11 | | If for a fluid the relation between shear stress and velocity gradient is straight line,the fluid is classified as |
| | a | Newtonian |
| | b | Non-Newtonian |
| | c | Dilatant |
| | d | Thixotropic |
| | | Ans a |
| 12 | | A real fluid in which shear stress is not proportional to the velocity gradient is called as |
| | a | Newtonian |
| | b | Non-Newtonian |
| | c | Dilatant |
| | d | Thixotropic |
| | | Ans b |
| 13 | | Water,Kerosene,gasolineetc.are examples of ____ fluid |
| | a | Thixotropic |
| | b | Ideal |
| | c | Newtonian |
| | d | Ideal plastic |
| | | Ans c |
| 14 | | Milk,paper pulp etc are examples of |
| | a | Dilatant |
| | b | pseudoplastic |
| | c | Ideal plastic |
| | d | Thixotropic |
| | | Ans b |
| 15 | | The liquid jet has a radius of 30mm and its surface tension is 0.052N/m.The intensity of pressure inside the jet is |
| | a | 6.93N/m ² |

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| | b | 3.46N/m^2 |
| | c | 13.8 N/m^2 |
| | d | 1.15 N/m^2 |
| | | Ans b |
| 16 | | The pressure intensity inside a droplet is 10N/m^2 .If surface tension is 0.07N/m ,the size of droplet is |
| | a | 5.6 cm |
| | b | 11.2cm |
| | c | 2.8 cm |
| | d | 7.2 cm |
| | | Ans c |
| 17 | | A glass tube of diameter 2mm is held vertical in a water filled tank .The contact angle between water and tube is 0° .If surface tension is 0.07n/m .the capillary rise is |
| | a | 14.8mm |
| | b | 146mm |
| | c | 29.7mm |
| | d | 90mm |
| | | Ans a |
| 18 | | Primary quantity is also called |
| | a | secondary |
| | b | fundamental |
| | c | derived |
| | d | None of the above |
| | | Ans b |
| 19 | | Diameter is _____ quantity |
| | a | primary |
| | b | secondary |
| | c | derived |
| | d | All of the above |
| | | Ans b |

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| 20 | | Dimension of velocity |
| | a | L^2T^{-1} |
| | b | LT^2 |
| | c | LT^{-1} |
| | d | $L^{-1}T^2$ |
| | | Ans c |
| 21 | | Reynold's number is used in |
| | a | Pipe flow |
| | b | Motion of submarines |
| | c | Motion of aeroplanes |
| | d | All of the above |
| | | Ans d |
| 22 | | The equation v/\sqrt{Lg} is of _____ number |
| | a | Reynold |
| | b | Euler |
| | c | Froude |
| | d | Mach |
| | | Ans c |