RRB Secunderabad Sr. Section Engineers Exam

(Held on 21.12.2014)

| 1. | To use an AC motor | in a DC circuit, which | equipment would be red | |
|----|---|--|--|--|
| | (A) Inductor | (B) Capacitor | (C) Rectifier | (D) Inverter |
| 2. | Stomata are located (A) Red blood cells | in- (B) Chlorophyll | (C) Stomach | (D) Leaves |
| 3. | the files in the increa | is used for removing reasing order of smoothn astard file (3) Second of (B) 1, 2, 3, 4 | | (D) 4, 3, 1, 2 |
| 1. | Bile is secreted by- | | \$650 E S S | |
| | (A) Stomach | (B) Liver | (C) Large intestine | (D) Gall bladder |
| 5. | What is the net effect | t on sales in rupees? | %. Its sale for that articl | |
| | (A) No change | (B) Increase by 5.75% | (C) Decrease by 5.75% | Decrease by 6.25% |
| | Out of the following (A) AC Arc (C) MIG | , which is NOT a type | of welding? (B) DC Arc (D) All of these are different | erent types of weldings |
| | | t preparation, correct r ng about-www.previouspaper (B) Arc welding | nozzle size and filler rod s.in (C) Thermit welding | size and correct travel (D) Steam welding |
| | | | | , , |
| | (A) 1010 | (B) 101 | y digits 1001 - 10. The res (C) 100 | (D) 111 |
|). | Match the following | - | | |
| | | 1. Lysosomes | a. Power House | |
| | | 2. DNA | b. Chromosomes | |
| | | 3. Mitochondri | a c. Suicide bags | |
| 86 | (A) 1-a, 2-c, 3-b | (B) 1-c, 2-b, 3-a | (C) 1-b, 2-c, 3-a | (D) 1-c, 2-a, 3-b |
| | circular path after 5 | | h East direction. The roa circle the road is straigh road? (C) South east | |
| 3 | | Car in a continuous contra | were to the tune of (in c | |
| 1 | (A) 4 | (B) 40 | (C) 400 | (D) 4000 |
| | Based on the choice the amplifiers are cla (A) Class I, II, III | | (C) Class A, B, C and D | |
| | and IV | and AB | (C) Class II, D, C and L | and IIB |
| 3. | | rgy corresponds to whi | ch law of thermodynami | |
| | (A) Zeroth law | (D) Flist law | -(C) Second law | (D) Third law |
| 1. | Consider the followi | ng orthogonal projection | ons of an object. | |

(A) Tetrahedron

(B) Conical cylinder

(C) Prism

(D) Trapezium

| 1 | | | ving logic gates is a uni of any other logic gate? | | nbinations can be used to |
|-----|----------------|--|---|--|--|
| | | A) OR | (B) AND | JOY NAND. | (D) NOT |
| , 1 | (| | 20 km in the North eas direction will he have to (B) West | | to his starting point? (D) South |
| 1 | | Wool is a bad | (B) Wool is a good at conductor of heat | (C) Wool increases | |
| 1 | | In potable water, the company of the | he dissolved oxygen is s (B) >6μg/l | tipulated as- (C) <6mg/l | (D) >6mg/l |
| 1 | | A, B & C invest ₹ 2 of ₹ 3500. B's share | | | ousiness. They earn a Profit |
| | (2 | A) ₹ 1200 | (B) ₹ 1500 | (C) ₹ 1700 | (D) ₹ 1900 |
| 20 | (A | Increase power of fuel | e of turbo charging a di of engine by burning more | (B) Increase the fue | er en en 1911 en de discontinuente au la grande de la companyación de la companyación de la companyación de la |
| | (C |) Increase exhaust thermal efficiency | | | r so that engine fuel efficiency eight ratio increases |
| 21 | | hemical bonding () Nuclear force | which results in formation (B) Short range forces | | atoms is basically- ce (D) Gravitational force |
| 22 | | verage Albedo (ov 5 x 10 ⁶ candela/day | erall) of the Earth is: (B) 5 x 10 ⁷ candela/da | y (C) 30 to 35% | (D) 60 to 65% |
| 23. | 1) 2) 3) | CO ₂ emissions Change of land us Non-veg food | three factors contribution der of their contribution | | g are : |
| | | 1, 2, 3 | (B) 1, 3, 2 | (C) 3, 1, 2 | (D) 2, 1, 3 |
| 24. | "K | Thalsa" was found | ed by- | | |
| | (A) | Guru Gobind Singh | (B) Guru Ramdas | (C) Guru Nanak | (D) Guru Arjun Dev |
| 25. | | | nfiguration refers to the | configuration of a- | |
| | (A) | Rectifier | (B) Transistor | (C) Diode | (D) Inverter |
| 26. | | | receiver relates to- | | |
| | (A) | Reproduction of a. f waves | (B) Detection of carrier waves | (C) Tuning of radio waves | (D) None of these |
| 27. | (A) | They are used in re metals www.previouspap | | H ₄ , Sodium amalgam (B) They are used in n | and NaBH ₄ ? nanufacturing esters |
| | (C) | They are reducing | agents | (D) They are coated or | n welding electrodes |
| 28. | Wh (A) | at is the common Surface finish | between Rockwell, Brin (B) Heat treatment | nell and Shore? They j | pertain to- (D) Hardness |

| 29 | . Match the follo | owing: | | |
|------|--|--|---|-------------------------------------|
| | Rectifier Transistor SCR | a. Power electronics, Motors b. Rectifiers, Wave clipper cir c. Amplifiers, Switches | | ging, Phase control |
| | (A) 1-a, 2-c, 3-b | (B) 1-b, 2-a, 3-c | (Ø) 1-b, 2-c, 3-a | (D) 1-c, 2-a, 3-b |
| 30. | (A) Terminating | g decimal ating non-repeating decimal | B) Recurring decimal (D) Indeterminate | |
| 31 | , | water is to be pumped to a bould be approx: /sec²) | neight of 10m at the rate | of 1 litre/second. Powe |
| | (A) 10 Watts | (B) 100 Watts | (C) 500 Watts | (D) 1 kW |
| 32. | of a civil engine | . 1 Table 1 & Print Table 13 (1997) 14 (1997) | | rge number of activities |
| 1200 | (A) MS Eng | (B) MS Project | (C) SQL Projects | (D) d Base Project |
| 33. | measure upto 1 | r(G) measures upto 100 mA 00 volts, What is required to | be done? | |
| | (C) Add 1 Ω res | resistance in series with G istance in parallel with G | (B) Add 1000 Ω resist (D) Add 0.1 Ω resistan | |
| 34. | (A) Abraham Lin | the book "My Experiments acoln (B) Mark Twain | with Truth"? (C) Louis Carol | (D) M.K Gandhi |
| 35. | Raja Ravi Varm (A) His struggle against the B | (B) Music & Singing | (C) Paintings | (D) Hindu reforms |
| 36. | Which of the fo (A) Amnesty International | llowing is NOT an NGO? (B) World Watch | (C) PUCL | (D) NHRC |
| 37. | In C.G.S system | n, the unit of strain is: | | |
| | (A) cm/kg | (B) m/kg | (C) no unit | (D) None of these |
| 38. | Which of the fol (A) Tolerances (C) Surface finish | llowing information is NOT | (B) Material compositi (B) All of these are inc drawing | on |
| 39. | (A) Developmen cast Asian re | t of low pressure areas in sout | th (B) Reduction in ice ca | on |
| | In a circuit in w would be- | hich resistance, capacitance | e and inductance are in | |
| | | $(B) \sqrt{R^2 + (X_L - X_C)^2}$ | | |
| 41. | No Go Ring Ga (A) Minimum tolerance diar | uge will have diameter base (B) Maximum tolerano neter diameter | ed on diameter of te (C) Nominal diameter | the component. (D) Average diameter |

| 52. River Damo | der is called t | hè 'Sorrow of Bengal | '. (C) Orissa | (D) Uttar Pradesh |
|----------------------------|---------------------------------------|--------------------------------------|--|---|
| | | | | called: |
| (A) Sublimat | ion (B) | Catenation | ts into longer chains is (C) Affiliation | (2) |
| 44. When we sw | itch on an el | ectric bulb or a f | an in our house, the ap | pliance starts almost |
| immediately (A) 1 mm/se | The drift ve | 1 m/sec | (S) 3 x 10 ⁸ m/sec | (D) None of these |
| 45 4 | a quantity of | CO2 in the atmo | osphere in PPM (parts | per million) is: |
| (A) 2 | (B) | 20 | (C) 200 | (D) 400· |
| (21) = Cala | 100 | | a as their main compor | nent? |
| (A) Siliceous | (B) | Argillaceous | (C) Calcareous | (D) Igneous |
| 47. Earthquake | s cause dama | ge when- | m) Cde t | he strength of materials |
| (A) Stress ex | ceeds the strai | n of materials | (B) Stress exceeds (| ls the strain of materials |
| (C) Strain ex | ceeds the stre | ngth of materials | | is the strain or market |
| 48. English Bo (A) Masonry | nd, Flemish I work (B) | Sond, Dutch Bo Cement bondin | g (C) Bonding between | en (D) Bonding in foundation |
| | | | beams | |
| end result v | 1 '1 at a dear | mont ic home C | ows the user to view sor reated is called- WYSIWYG | nething very similar to th (D) WYGIWYS |
| (A) Format | creator (D | : 6 | etion of culphur dioxide | e in ambient air at 50 unit |
| | | mit of concentra | tuon of surption dioxide | 1.0 |
| The unit is: | (B) | mg/litre . | (C) mg/m ³ | (D) μg/m³. |
| (A) g/cc | | mg/ nee | (9)8 | |
| 51. Complete th | | | | |
| ab_ab_b_ab | | . K | (C) aaaa | (D) aaab |
| (A) bbab | (B) | abaa | | |
| 52. A man said | to a lady "Ris | hi's mother is th | ne only child of your fat | ner". How is the lady |
| related to Ri | shi? | | | (D) Daughter |
| (A) Mother | (B) | Sister | (C) Wife | (D) Daughter |
| 53. Loudness of | noise is meas | ured in- | | (T) 11 |
| (A) Richter | (B) | Гesla | (C) Decibels | (D) Hertz |
| 54. Match the fo | llowing - | | | |
| 1 | 1. Nickel | a. Radiator, Wat | er cooling system | |
| | 2. Brass | b. Bearings, Gea | | |
| | 3. Bronze | c. Hard, Corrosi | on resistant and used in p | lating on steel |
| l | | | (C) 1-c, 2-a, 3-b | |
| (A) 1-b, 2-a, 3 | | 1-a, 2-b, 3-c | | |
| (A) Fundame rights | ntion of the In | dian Constitution Fundamental dut | on is based on the spiri ies (C) Preamble | (D) Directive principles |
| E6 A coin is too | sed two times | On both occas | ions, the result is head | s. When the coin is tossed |
| 56. A coin is tos: | what is the p | robability of get | ting a head? | |
| a uma ume, | · · · · · · · · · · · · · · · · · · · | 1 | | (D) $\frac{3}{4} \times \frac{1}{2}$ |
| (A) 1 | ~ (BY) | $\frac{1}{2}$ | (C) $\frac{1}{4} \times \frac{1}{2}$ | $\frac{(D)}{4} \times \frac{1}{2}$ |

age 18

| 57. | Which of these is NOT a | nn Operating System) iOS | n? (C) Linux | (D) Power point |
|-----|--|---|--|---|
| 58. | | ruth table in Boolean | n Algebra. | |
| | X Y A B 0 0 0 0 0 0 1 1 0 1 0 0 1 | C D 1 1 0 0 1 0 | Which of the four opti represent the function F = xy + xy'? | |
| | (A) A (B |) B | (9/c | (D) D |
| 59. | | Induction circuit | (C) Lightening | (D) All of these |
| 60. | | nould 192,000 be div | ided so as to become a p | erfect cube? (D) 7 |
| 61. | supply, 220 V, the total j | W, 220 V each. If the power consumed by 3) 50 Watts | both the bulbs would be (C) 100 Watts | in series to the mains e- (D) 200 Watts |
| 62. | CAN THE STATE OF T | #10 TO REPORT FREED | | |
| | | B) log ₄ 7 | $C \log \left(\frac{4}{7}\right)$ | (D) log, 4 |
| 63. | Educated and Teachers | B) \(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | .09 0 | (D) (O) |
| 04 | at ₹ 40/Kg in the ratio of a profit of 20%? | of 7: 3 respectively. B) ₹ 74/Kg | At what price should he (C) ₹ 74.6/Kg | sell the mixture to earn (D) ₹ 75.4/Kg |
| 65 | A tunic fork when soun | On loading the tunis | nother tuning fork of kn ng fork of known freque f the tuning fork is: | own frequency of ncy the number of beats |
| | | B) 242 Hz | (C) 239 Hz | (D) 238 Hz |
| 66 | [15] | nt of water in Kelvin (B) 273 K | Scale? (C) 373 K | (D) 300 K |
| 67 | 3 + 0.03 + 0.003 + 0.000 | 03 (B) 3.0333 | (C) 3.3333 | (D) 6.0333 |
| 68 | 3. Which of the following | | vater and minerals from | roots to other parts of |
| _ | () | (B) Vessel | (C) Sieve tube | Xylem |
| 6 | / South East, the hour h | ne floor upside down and would be point (B) North west | at 9 O'clock. If the min ing- (C) South east | (D) South west |

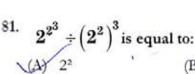
| | | | ork using encryption of |
|--|--|---|--|
| (A) Spice routing | ng between the nodes (B) Onton routing | , is called- (C) Cabbage routing | (D) Flower routing |
| 71. In a transistor radio, | | cuit that was convention | ally used, would consist |
| | variable capacitor in | (B) A bridge rectifier of transistor through (D) A potentiometer w | |
| • | | ly used electrical applia | |
| (A) Inductive load | (B) Capacitive load | (C) Resistive load | (D) None of these |
| 73. In the case of a uniformoment diagram wo | ormly distributed load | on a simply supported b | eam, the bending |
| January Gragiani W | value oc- | uniform load of W/L | |
| | | 1 | |
| | 1) | | |
| | 3) | | |
| (A) 1 | (B) 2 | (C) 3 | (D) 4 |
| are New reserve | ugh roots because of: | (-) | (=) |
| (A) Viscosity | (B) Elasticity | (C) Gravity | (D) Surface tension |
| | that was already switc wn by heavy load | | ce added to the circuit |
| 6. Arrange the following | g fractions in ascendi | from infinity to a p | ositive value |
| $\frac{7}{10}, \frac{3}{8}, \frac{4}{5}$ | g nactions in ascendi | ing order. | |
| (A) $\frac{3}{8}, \frac{7}{10}, \frac{4}{5}$ | (B) $\frac{3}{8}, \frac{4}{5}, \frac{7}{10}$ | (C) $\frac{4}{5}$, $\frac{3}{8}$, $\frac{7}{10}$ | (D) $\frac{7}{10}$, $\frac{3}{8}$, $\frac{4}{5}$ |
| The illumination of a in a fluid, is called: | beam of light due to | scattering on collision w | ith particles suspende |
| | (B) Tyndall effect | (C) Snell's effect | (D) Huygens effect |
| 8. "Mahabharata" the e | epic was written by- (B) Kalidasa | (C) Tulsidasa | (D) Valmiki |
| | 2-5-25 | | |
| 9. Arya samaj was found | ded by- | | |
| 9. Arya samaj was found (A) Raja Ram Mohan Roy | | (C) Swami Dayanand Saraswati | (D) Anne Besant |

(b) Mercury column

(A) Isobar

(B) Transducer

(C) Manometer

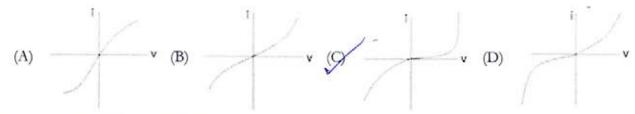




- 82. Which of these devices performs the function of both input device and output device for a computer?
 - (A) Joy Stick
- (B) Mouse
- (C) Modem
- Printer

- 83. The sum of first n odd natural numbers is:
 - (A) n²-1

- $(C) (n+1)^2$
- (D) (n-1)2
- 84. If a cube is broken into 27 equal cubes, the total surface area is increased how many times?
 - (A) 3 times
- (B) 6 times
- (C) 9 times
- (D) 27 times
- Which of the Current (i) Voltage (v) graphs represents a p-n junction diode characteristics?



- 86. Efficiency of Carnot cycle is:
 - (A) $1 \frac{Q_1}{Q_1 + Q_2}$ (B) $1 \frac{T_1}{T_2}$
- (C) $1 \frac{T_1}{T_1 + T_2}$

- 87. Lufthansa Airlines is from which country?
 - (A) USA
- (B) Malaysia
- (C) Germany
- (D) Russia
- 88. What is the ratio of angular speed of second's needle and hour's needle of a clock?
 - (A) 1:60
- (B) 60:1
- A(C) 3600:1
- (D) 720:1
- 89. In a digital circuit a counter is basically a _ which counts the number of clock pulses that have arrived at its clock input. Counters use _____ as their basic unit. Fill in the blanks respectively.
 - (A) Register, Flip-flop (B) NAND gate,
 - Register
- (C) Register, NAND
- (D) Flip-flop, Toggle
- 90. The terms Cope, Drag and Core are associated with-
 - (A) Transformers
- (B) Castings
- C) Laminar flow of liquid
- (D) Stellar evolution

- 91. French power declined in India after the battle of-
- (B) Buxar
- (C) Talikota
- (D) Wandiwash
- 92. By which constitutional amendment did the Parliament acquire the right to amend Fundamental Rights?
 - (A) 23rd
- (B) 24th
- (C) 25th
- (D) 26th
- 93. A rectangular garden has an area of 48 sq.m and perimeter of 28 m. What is the length of its diagonal?
 - (A) 8 m
- (B) 10 m
- (C) 12.5 m
- (D) 14.14 m (approx.)

- 94. Cash-reserve ratio of a commercial bank is fixed by-
 - (A) Ministry of Finance
- (B) Ministry of Commerce
- (C) RBI
- (D) Management of the commercial bank

- 95. If 12a+6b=54, what is the average of a & b?

Data insufficient

| 96. | A, B and C can do a take to finish the wo | - | and 20 days respectively | . How long will they |
|------|--|--|---|------------------------------------|
| | (A) 10 days | (B) 5 days | (C) 8 days | (D) 12 days |
| 97. | What is morphology | ? | | |
| | (A) Study of insects | | (B) Study of Human ev | |
| | (C) Study of forms an organisms | d structural features of | (D) Study of interdeper environment | ndence of organisms and |
| 98. | many 1 ton ACs wor | uld be required for a h | ired to cool a room of siz all of size of 24' x 24' of t | he same roof height as |
| | | (B) 3 | (C) 4 | (D) 5 |
| 99. | In the context of act | ion of medicines on h | uman body,match the fo | llowing: |
| | | 1. Receptors | a. Catalysts | |
| | | 2. Enzymes | b. Neurologically active | |
| | | 3. Tranquilizers | | |
| | (A) 1-c, 2-a, 3-b | (B) 1a, 2-c, 3-b | (C) 1-b, 2-a, 3-c | (D) 1-a, 2-b, 3-c |
| 100. | | Y | nich binds them to reduc | |
| | protocol was adopte | | | |
| | (A) Kyoto, Japan | (B) Geneva, Switzerland | (C) New York, USA | (D) Paris, France |
| 101. | appliance could be a | ce has a yoke, stator v - | vinding, rotor, commuta | |
| | (A) DC motor (| B) AC induction motor | (C) AC generator | (D) Both (B) and (C) |
| 102. | The state of the s | | nteed by the Constitutio | |
| | (A) 7 | (B) 3 | (C) 5 | UDY.6 |
| 103. | Which of the followi (A) n linear equations a inique solution | an 🚅 Ni kanana ana fili wata ka ana ana aka aka ana | ve (B) n linear equations v no solution | with n variables may have |
| | (C) Both A & B are co | | (D) Both A & B are wr | rong |
| 104. | If $a: b = 4:3$ and b | c = 7 : 9, then $a : b : c$ | ::? | 2 10 1 |
| | (A) 24:21:30 | (B) 12:15:21 | (C) 8:6:12 | (B) 28: 21: 27 |
| 105. | Once 'X' is turned C (A) Transistor | ON, even after removing (B) FET | ng the gate voltage, 'X' to | emains ON. 'X' is a: (D) MOSFET |
| 106. | The chemical reaction (A) Hydration | on between cement an (B) Chlorination | d water is: (C) Calcination | (D) None of these |
| 107. | Statement A: | 10000 | | |
| | | The state of the s | two points is given by: | |
| | | 0.000 E | | |
| | Statement B: Pythag | oras theorem ng statements is corre | ct? | 15 |
| | (A) Statement A is pro | | (B) Statement B is pro | ved by Statement A |
| | The state of the s | its are independent | (D) None of these | 44.00mm |
| 108. | The first Indian rails | way train journey betw | een Bombay and Thane | was in the year- |

(C) 1818

(D) 1854

(B) 1853

(A) 1857

| 109. | The process of 'Up | setting' pertains to- | | |
|------|--|--------------------------------------|---|-------------------------------------|
| | (A) Casting | (B) Forging Sink | (C) Turning | (D) Milling |
| 110. | What is the function | n of push rod in a diesel | engine? It transfers for | rce between - |
| | (A) Cam and rocker | (B) Connecting rod an | d (C) Crankshaft and | (D) None of these |
| | arm | piston | piston | |
| 111. | Consider following | contours: | | |
| | | | | 111 |
| | n | 2) | 3) | 200 300 200 |
| | Match the following | g a) Hill b) Pond c) Slo | pe | |
| | (A) 1-b, 2-a, 3-c | (B) 1-a, 2-b, 3-c | (C) 1-a, 2-c, 3-b | (D) 1-c, 2-b, 3-a |
| 112. | $\sin^{-1}(\frac{1}{2}) + \tan^{-1}(1)$ | = ? | | |
| | (A) 30° | (B) 45° | 4C) 75° | (D) 90° |
| 113. | Which of the follow | ing statements is true? | | |
| | | reases with increase in θ | Value of cosθ dec | reases with increase in θ |
| | (C) Between 0° & 90 | o, value of cotθ increases | | , value of tanθ decreases |
| -0 | with increase in | 1 | with decrease in 6 | , |
| 114 | In an orthogonal pr | rojection the axis of a cy | | |
| | (A) A thin line | (B) A medium dashed line | (C) A sequence of lor and short dashes | ng (D) Dashes of uniform lengths |
| 165. | Glycerol can be rep | resented by chemical fo | ormula: | |
| | (A) C ₂ H ₅ O ₂ | (B) C ₃ H ₇ OH | (C) C_3H_5OH | (D) $C_3H_8O_3$ |
| 116. | Which of the follow | ring phenomenon is rela | ated to the formation o | f clouds? |
| | (A) Condensation | | (C) Sublimation | (D) Vulcanization |
| 117. | Who wrote/invente | ed the Linux software? | | |
| 1 | (A) Microsoft | (B) Apple Inc | (C) IBM | (D) None of these |
| 118. | The average score of | of girls in a class is 75 m | arks. The average scor | es of boys in the class is 65 |
| /en | marks. If the averag | e of the class is 68.75 m | arks, what is the ratio | of boys to girls in the class? |
| | (A) 2:5 | (B) 5:2 | (C) 3:5 filt | (D)5:3 |
| 119. | Consider that two | solid bodies A and B are | touching each other a | and transmitting heat |
| | | n. In the graph below, (| OX represents the first | body and XY represents |
| | the second body. | | | |
| | T4 | State True (| T) or False(F). | |
| | Тэ | 1)Temperat | ure gradient is more in | A than in B |
| | T2 | 4 | flow is determined by I | |
| | T1 | | er the curve represents | |
| | o × | Y | | |
| | (A) T, T, T | (B) T, T, F | (C) T, F, T | (D) F, F, T |

| 120 | Padiation of a blac | k body, in terms of its t | emperature follows: | |
|----------|---|--|--|---|
| 120. | (A) Newton's law of cooling | (B) Plank's law | (C) Stefan's law | (D) Einstein Bose equation |
| 121. | (A) They add capaci | t banks in the context of tance to the supply so that ted in case of breakdown | capacitors are avai | torage spaces so that lable to maintenance |
| | (C) They balance th | e inductive component o | engineers in case of (D) They balance the the power factor | of failures inductive loads to improve |
| 122. | In S.I system, unit | of stress is: | VE N/m² | (D) Watt |
| 123. | Which planet has (A) Venus | | re dominated by carbon | -di-oxide? (D) Neptune |
| 124. | A man drives a car | and reaches his destin | ation in 4 hours. Had he | increased his speed by stance did the man cove (D) 210 km |
| | Total distinguished | 103.10 | | - , |
| 125. | (A) Karnataka | , which state was affect (B) Madhya Pradesh | (C) Gujarat | (D) Jammu & Kashmir |
| (127) | squares of the che (A) 64! Orthogonal project | (B) 2 ⁶⁴ -1 | (C) 2 ⁶³ -1 | (D) p(64, 2) ons 5 cm x 10 cm on the |
| Sec y II | X - Y plane and a | circle of diameter 10 cm | on the Y-Z plane. Wha | t is the volume of the |
| | object? (A) 5000 cm ³ | (B) π.5 ³ | (C) $\frac{\pi.10^3}{4}$ | (D) 2500 cm |
| 128. | Strength of comm | only used concrete, for (B) 8000 psi | (C) 15000 psi | sidential buildings is: (D) 25000 psi |
| 129. | (A) MIPS(Million I (C) Both (A) and (| - 1 | (B) MHz of clock (D) None of these | |
| 130. | The famous quee | n Chand Bibi who four | ght against Akbar, defen | ded the city of - |
| | (A) Berar | (B) Ahmad nagar | (C) Golconda | (D) Mysore |
| 131. | . Complete the ser | ies logically. | | |
| | | F | I L | |
| | (A) L | CB) | (C) M | (D) R |
| 132 | . The heart of the called- | 'Microwave oven' that p | produces the microwave | range of radiation is |
| | (A) Cyclotron | (B) Oscillotron | (C) Variable frequency oscillator | (D) Magnetron |

| 133. | Intensity of earthqua (A) Barometer scale | | easured in - rometer scale | (C) T | achometer scale | (D) Richter scale |
|------|--|------------|---------------------------------|--------------|---|--|
| 734) | Consider the following object be: | ng ortho | gonal projec | tions of a | n object is and | answer what could this |
| | | | | -(| | |
| | (A) Circle | (B) Spl | here | (C) E | llipse | (D) Spheroid |
| 135. | Find the next number 33, 34, 32, 35, 31, 36, | | | | | |
| | (A) 30 | (B) 37 | | (C) 3 | 8 | (D) 29 |
| 136. | Soaps are manufactu | ired by: | | | | |
| | (A) Reaction of alkalie | s with gly | ycerol | (B) R | eaction of fats w | ith soluble hydroxides |
| | (C) Reaction of calciu with dilute sulphu | | agnesium ions | 10° (5° (5°) | eaction of dodeo nen NaOH | yl benzene with H ₂ SO ₄ and |
| 137. | A map mentions the The scale is in the ra | | em=1 km. | - | - | |
| | (A) 1:103 | (B) 1: | 104 | SCYT | : 10 ⁵ O ₂ & NO ₂ | (D) 1:10 ⁶ |
| 138. | Acid rain is caused l | y: | | | ~ | |
| | (A) CO & CO ₂ | (B) SC | 02 & O2 | (C) 8 | O2 & NO2 | (D) NO ₂ & O ₂ |
| 139. | Find the next number 1, 2, 6, 24, 120, | | series. | | | |
| | (A) 240 | (B) 480 | 0 | (C) 5 | 60 | (B) 720 |
| 140. | India's first war of In (A) 1835 | (B) 18 | 1,100 | (C) 1 | | in: (D) 1905 |
| 141. | Which of the followi | ng is NO | OT used for 1 | neasurem | ent of tempera | ture? |
| | (A) Thermocouples | (B) Th | ermistors | UE) P | yrometers | (D) All are used |
| 142. | The transformer equal (A) Ampere's law | | $I_1 = V_2 I_2$ is sloumb's law | (C) E | estation of- aw of energy onservation | (D) Biot Savart's law |
| 143. | Match the following | : | | | | |
| | | 1. | Magnetic flux | density | a. Tesla | 1 |
| | | 2. | Self inductan | ce | b. Weber | |
| | | 3. | Magnetic flux | 1 | c. Henry |] |
| | (A) 1-b, 2-c, 3-a | (B) 1-c | c, 2-a, 3-b | (C) 1 | -а, 2-ь, 3-с | (D) 1-a, 2-c, 3-b |
| 144. | Currently which 5 ye | | | | | (T) + eth |
| | (A) 12 th | (B) 13 | | (C) 1 | | (D) 15 th |
| 145. | In a certain code, "A Good Luck" is writt | | | | | " is written as 675; "The ten as: |
| | (A) 8 | (B) 7 | | (C) 6 | | (D) 5 |

| | let bind | | energy | |
|------|--|---|--|--|
| 147. | | wall of the dam, then | | on area of the water and e on the wall of the dam (D) h |
| 1/19 | The state of the s | sides of a regular polyg | | |
| 140. | Aligie between two s | dides of a regular polyg | on naving n vertices is | and the state of t |
| | (A) 360 | (B) $90 + \frac{180}{n}$ | (C) 180 | (D) 180 - 360 |
| | n | n | n | n |
| 149. | Language (HL), Ma | | Compiler (C). Which | us levels, like High level of the following is the COMP)? |
| | (V) J—HL—C | C ← ML ← Comp | (B) U ← C ← N | ıL ← HL ← Comp |
| | (C) $U \rightleftharpoons C \rightleftharpoons HI$ | \longrightarrow ML \Longrightarrow Comp | (D) $U \rightleftharpoons ML \rightleftharpoons$ | $HL \longrightarrow C \longrightarrow Comp$ |
| 150. | An eating disorder o | f excessive weight loss | usually due to undue | concern about body shape |
| | (A) Anorexia nervosa | (B) Appetitis | (C) Autotrophic disorder | (D) Autotrophic syndrome |
| | | | | |

(D) Distances

(C) Rotational kinetic

146. Tachymeter (or Tacheometer) is an instrument for measuring-

(B) Torque

(A) rpm

| | RRB SSE GREEN (TSD001214)KEY | | | | | | | | |
|-------|------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1. D | 2. D | 3 .A | 4. D | 5. D | 6. D | 7. B | 8. D | 9. B | 10 . D |
| 11. D | 12. B | 13. B | 14. C | 15. C | 16. B | 17. A | 18. C | 19. C | 20. C |
| 21. C | 22. C | 23. D | 24. A | 25. B | 26. C | 27. B | 28. D | 29. C | 30. B |
| 31. B | 32.B | 33. B | 34. D | 35. C | 36. B | 37. C | 38. D | 39. C | 40. B |
| 41. A | 42. B | 43. B | 44. C | 45. D | 46. B | 47. C | 48. D | 49. C | 50. D |
| 51. B | 52. A | 53. C | 54. C | 55. C | 56. C | 57. D | 58. C | 59.D | 60. C |
| 61.D | 62. B | 63. C | 64. A | 65.B | 66. C | 67. B | 68. D | 69.A | 70. B |
| 71.A | 72. C | 73. B | 74. A | 75.A | 76.A | 77.B | 78. A | 79. C | 80. D |
| 81. A | 82.D | 83.B | 84.A | 85.C | 86.B | 87.C | 88.D | 89.A | 90.B |
| 91.A | 92.C | 93.B | 94.C | 95.D | 96.B | 97.C | 98.B | 99.B | 100.A |
| 101.D | 102.D | 103.C | 104.D | 105.C | 106.A | 107.A | 108.B | 109.B | 110.A |
| 111.A | 112.C | 113.D | 114.D | 115.C | 116.A | 117.A | 118.D | 119.A | 120.B |
| 121.D | 122.C | 123.C | 124.C | 125.D | 126.B | 127.B | 128.C | 129.C | 130.B |
| 131.B | 132.D | 133.D | 134.D | 135.A | 136.A | 137.C | 138.C | 139.D | 140.B |
| 141.D | 142.C | 143.D | 144.A | 145.A | 146.A | 147.B | 148.D | 149.A | 150.A |