
KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD，MALLESWARAM， BANGALORE－ 560003

S．S．L．C．EXAMINATION，APRIL， 2012

#  <br> MODEL ANSWERS 

Qnvoũ ：05．04． 2012 ］
Date ：05．04． 2012 ］
 CODE NO．：83－E

ఎజయు ：ఎజ్ల
Subject ：SCIENCE
（ భ『すご
（ Physics，Chemistry \＆Biology ）

［ Max．Marks： 100
（English Version ）

| $\begin{aligned} & \hline \text { Qn. } \\ & \text { Nos. } \end{aligned}$ | Ans． Key | Value Points | Marks Allotted |
| :---: | :---: | :---: | :---: |
|  |  | PART－A <br> （ Physics \＆Chemistry ） <br> （ Marks：65） |  |
| 1. | C | Vitamin $D$ | 1 |
| 2. | A | Laser ranging | 1 |
| 3. | D | Exhaust stroke | 1 |
| 4. | C | it releases more carbon monoxide | 1 |
| 5. | C | To study the working of heart | 1 |
| 6. | A | 2 | 1 |
| 7. | D | Non－edible vegetable oil | 1 |
| 8. | B | long chain hydrocarbon，sodium hydroxide，sulphuric acid | 1 |
| 9. | D | ultraviolet rays | 1 |
| 10. | D | increases area of absorption． | 1 |


| Qn. Nos. | Value Points | Marks Allotted |
| :---: | :---: | :---: |
| 11. | A runner lean towards the centre of the curve while running in a curved path to obtain the necessary centripetal force. | 1 |
| 12. | In the mixture, sand is heavier and experiences larger centrifugal reaction. | 1 |
| 13. | i) Solar lamp |  |
|  | ii) Street light |  |
|  | iii) Artificial satellite |  |
|  | ( Any other suitable answer ) | $\frac{1}{2}+\frac{1}{2}=1$ |
| 14. | - The energy from the interior is prevented from reaching the photosphere in the region of sun-spots. Therefore the sunspots appear dark. | 1 |
|  | OR |  |
|  | - When compared to other regions sun-spots have relatively low temperature. |  |
| 15. | - Time of cooking is saved and so time of combustion of fuel is also saved. | 1 |
| 16. | - Permutit cannot remove lead, manganese and iron salts. |  |
|  | - Water contains excess sodium salts. ( Any one point ) | 1 |
| 17. | List - A List - B |  |
|  | a) Propane <br> iv) $\mathrm{C}_{3} \mathrm{H}_{8}$ |  |
|  | b) Acetylene <br> vii) $\mathrm{C}_{2} \mathrm{H}_{2}$ |  |
|  | c) Ethane <br> i) $\quad \mathrm{C}_{2} \mathrm{H}_{6}$ |  |
|  | d) Butyne iii) $\mathrm{C}_{4} \mathrm{H}_{6} \quad 4 \times 1$ | 4 |
| 18. | 3 | 1 |
| 19. | Doppler effect | 1 |
| 20. | Annealing | 1 |
| 21. | Common parts present in motor and dynamo are |  |
|  | i) magnetic poles | 1 |
|  | ii) armature. | 12 |






| Qn. <br> Nos. | Value Points | Marks <br> Allotted |
| :---: | :---: | :---: |
| 32. | $-\quad$Spectroscope is an instrument to obtain pure spectrum of a <br> composite light using a prism. <br> $-\quad$ Function of collimator : Light from the slit is rendered narrow <br> and parallel by collimator. | 1 |
| 33. | Function of telescope : To get magnified and bright image of <br> the spectrum. | 1 |



Complete figure - 2
Labelling - 1


| Qn. <br> Nos. | Value Points | Marks <br> Allotted |
| :---: | :---: | :---: |
| 36. |  |  |






