MARKS : 150No. of Questions: 150<br>Time : 150 Minutes<br>(-)tive marks: 0.25

1. The costs of two watches were in the ratio $16: 23$. The cost of first watch increases by $10 \%$ and that of second by Rs. 477. Now the costs of two watches are in the ratio $11: 20$. The price of the second watch (in Ts.) in the beginning was
(a) 932
(b) 1219
(c) 1696
(d) 848
2. Amit had a certain amount with him. He spent $20 \%$ of that to buy a car and $5 \%$ of the remaining on maintenance of a bike. Then he gifted 120 Rs. If he is left with Rs. 1400. Then find the total amount?
(a) Rs. 2000
(b) Rs. 21000
(c) Rs. 18000
(d) Rs. 15000
3. Tap 'A' can fill a tank in 10 hours. Due to leak it emptied in 15 hours. In how many hours leak alone can empty the half tank?
(a) 30 hours
(b) 6 hours
(c) 15 hours
(d) 20 hours
4. A journey of 800 km is done in a total of 10 hours, If 320 km is travel by train and remaining by bus. The same journey is done in 8 hours if 240 km is travel by train and remaining is done by bus. Find the ratio of the speed of train to bus.
(a) $2: 11$
(b) $3: 11$
(c) $1: 11$
(d) $4: 11$
5. A sum of money invested for 7years in Scheme 1 which offers SI at a rate of $8 \%$ pa. The amount received from Scheme 1 after 7 years invested for 2 years in Scheme 2 which offers CI rate of $10 \%$ pa. If the interest received from Scheme B was Rs. 1638. What was the sum invested in Scheme 1 ?(approx)
(a) Rs. 7500
(b) Rs. 5000
(c) Rs. 8200
(d) Rs. 9000

Directions (6-8): Study following Bar graph carefully and answer the question given below The graph represents the production of Wheat in thousand tonnes) in four States A, $B, C$ and $D$ over the vears

6. The difference (in thousand tones) between the average production of wheat by four states in 1999 and average production by them state in 1998 is:
(a) 12.5
(b) 13.5
(c) 17
(d) 21.5
7. Which of the given state has recorded the maximum percentage growth in production of wheat from 1999 to 2000?
(a) A
(b) A and B
(c) D


(c)

(d)
13. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the

(b)

(c)

(d)

Direction (Q. No. 14-16) : In each of thew. fandifieducationsolidm (b) Liquid
(c) gases (d) Plasma questions a sentence consists of a blank and it is followed by four options namely $a, b, c$ and $d$. One of the options fills up the blank. Choose the appropriate option.
14. I am $\qquad$ my book
(a) look for
(b) look about
(c) looking for
(d) look on
15. As the pilgrims were hungry, they ate $\qquad$
(a) instantly
(b) speedily
(c) greedily
(d) frequently
16. Can you tell me who were the first persons to __the Everest?
(a) Climbed
(b) Win
(c) Victory
(d) Scale
17. Famous writer Krishna Sobti died recently. She has won which of the following awards in her life span?
A. Jnanpith Award
B. Sahitya Akademi Award
C. Vyas Samman
D. Padma Bhushan
(a) A and C
(b) B and C
(c) A, C and D
(d) A and B
18. Which country will host the annual G20 leaders' summit on 21-22 November 2020?
(a) UAE
(b) Syria
(c) Qatar
(d) Saudi Arabia
19. Who took over as Prime Minister of Britain in July 2019?
(a) Michael Gove
(b) Boris Johnson
(c) Nigel Farage
(d) Rory Stewart
20. Who is the author of the book titled 'New age technology and Industrial Revolution 4.0'?
(a) Raushan Ganduly
(b) Manoj Jha
(c) Suresh Gopi
(d) Narendra Jadhav
21. Which among the following is the newest high court in India?
(a) Chhattisgarh High Court
(b) Andhra Pradesh High Court
(c) Jharkhand High Court (d) Manipur High Court
22. What is the toll free number of Spandhana?
(a) 1800-425-4440
(b) 1800-524-3330
(c) 1800-524-2220
(d) 1800-625-5550
23. On which date farmer day was celebrated in Andhra Pradesh?
(a) July $8^{\text {th }}$
(b) June $8^{\text {th }}$
(c) $\operatorname{Aug} 8^{\text {th }}$
(d) May $8^{\text {th }}$
24. Rajanna Badi bata started from which date to date?
(a) July $14^{\text {th }}$ to $17^{\text {th }}$
(b) June $14^{\text {th }}$ to $17^{\text {th }}$
(c) Aug $14^{\text {th }}$ to $17^{\text {th }}$
(d) Sep $14^{\text {th }}$ to $17^{\text {th }}$
25. What is the scheme name of Mid Day meals program in Government school?
(a) Y. S. R. Akshaya Patra
(b) Rajanna Canteen
(c) N.T. R Canteen
(d) None of the above
26. How much financial assistant provided to the farmer on the name of Y.S. R. Rythu Barosa
(a) 14500
(b) 13500
(c) 6000
(d) 12500
27. In which country more magnetic reserves are located
(a) Australia
(b) Turkey
(c) North Sweden
(d) China
28. Integrated Circuits are manufactured with
(a) Silver
(b) Silicon
(c) Iron
(d) Nickel
(a) Cenozoic reptiles
(b) Mesozoic birds
(c) Paleozoic amphibians
(d) Mesozoic reptiles
31. The Raichur Doab is formed by the Confluence of Rivers
(a) Krishna and Tungabhadra
(b) Tunga and Bhadra
(c) Krishna and Godavari
(d) Kagna and Krishna
32. Which of the following places is an evidence of Chalcolithic age in Andhra
(a) Sanganakallu
(b) Tekkala Kota
(c) Palavoy
(d) Patapadu
33. Which literature refers to Andhras as 'Andhakaratta'
(a) Vedic literature
(b) Budhist literature
(c) Jain literature
(d) Taitareya brahmana
34. Who among the following located Satavahanas in Ballari (Bellary) district on the basis of Myakadoni Inscription
(a) V.V.Mirashi
(b) R.G. Bhandarker
(c) V.S Sukthankar
(d) S.A. Joglekar
35. Name the capital of a place known as "Anupa" under Goutami Putra Satakarni?
(a) Mahishmati
(b) Vidisha
(c) Ujjain
(b) Podana
36. The following expenditure shall be charged on the consolidated fund of India, except
(a) Debt charges for which the government of India is liable
(b) Salaries, allowances and pensions payable to or in respect of Supreme Court judges
(c) The pensions payable to or in respect of judges of any high court
(d) The pensions payable to or in respect of governors of any state
37. All following statements regarding the privileges of Parliament members are correct except
(a) Freedom from arrest
(b) Freedom of attendance as witness
(c) Freedom of speech
(d) Members individual freedom only allowed, house as a whole do not have freedom
38. Article 17 and 18 provide
(a) Social equality
(b) Economic Equality
(c) Political Equality
(d) Religious Equality
39. Prices in India increase mainly not because of
(a) Indiscriminate increase in public expectations
(b) Hording of essential commodities
(c) Oil price shocks
(d) Less agricultural production
40. The control inflation
29. Fourth state of matter is called as wWw.sakshieducati(Oh. i屯 Bliły be sufficient to use monetary policy
(b) fiscal policy measures would alonewerwfficaiknthieducationfiicard (iii)
(b) (i) and (ii)
(c) inflation should be targeted aggressively
(d) a combination of monetary, fiscal and exchange rate policies may be required
41. The expert committee to review and strengthen the monetary policy framework, in recent times was headed by
(a) N. Vaghul
(b) SS Tarapore
(c) Urjit Patel
(d) Aravind Panagaria
42. The Banking Regulation Act 1949 gave extensive regulatory powers to
(a) State Bank of India
(b) Government of India
(c) Reserve Bank of India
(d) All Nationalized Banks
43. An example of all India Development Finance institutions is
(a) Small Industries Development Bank of India (SIDBI)
(b) EXIM Bank
(c) UTI
(d) Export credit and guarantee corporation of India (ECGCI)
44. Which of the following statements is true?
(a) As on 2013-14, Direct taxes accounted for less than half of the total tax revenue of the Central Government
(b) Of all the taxes levied by the centre, corporate tax is the most important one in terms of revenue generation
(c) Income tax has played a crucial and positive role in income redistribution in rural India
(d) GST is not related to income
45. Match the following List I with List II (Northern hemisphere) and choose the correct answer.

## List I

List II
a. Winter solstice
b. Summer solstice
c. Vernal equinox
d. Autumnal equinox
I. December, 22
II. June, 21
III. March, 21
IV. September, 23

## Codes:

| a | b | c | d |
| :--- | :--- | :--- | :--- |
| (a) | IV | III | II |
| (b) I | II | III | IV |
| (c) I | II | IV | III |
| (d) IV | II | III | I |

46. Which of the following statement's rightly explain/s about tropopause?
i) Seasonal variation occurs in the height of tropopause ?
ii) It is the transition zone between troposphere and stratosphere.
iii) It lies below the stratosphere
(c) (i), (ii) and (iii)
(d) (i) and (iii)
47. The Suez Canal connects
(a) Baltic Sea and Pacific Ocean
(b) Mediterranean Sea and Atlantic Ocean
(c) Baltic Sea and Mediterranean Sea
(d) Mediterranean Sea and Red Sea
48. Match the following:

List I (Crops)
A. Barley
B. Groundnut
C. Ragi
D. Rice

Code:

| A B B | C | D |  |  |
| :---: | :--- | :---: | :---: | :---: |
| (a) | I | II | III | IV |
| (b) | II | III | I | IV |
| (c) | IV | III | II | I |
| (d) | III | IV | II | I |

49. How many mandals have been alienated from Telangana and annexed to Andhra Pradesh during reorganization due to their submergence issues under the Polavaram Project?
(a) 5
(b) 6
(c) 7
(d) 9
50. After reorganization, what is the position of Andhra Pradesh in terms of meting targets laid down under FRBM?
(a) The targets are under control
(b) The targets could not be met
(c) The targets are lowered
(d) Correct data is not available
51. In order to determine the natural features such as valleys, rivers, lakes etc., the surveying preferred is
(a) city surveying (b) Locating surveying
(c) cadastral surveying
(d) topographical surveying
52. French crosstaff is used for setting out an offset at angle of
(a) $90^{\circ}$
(b) $45^{\circ}$
(c) $180^{\circ}$
(d) Both (a) and (b)
53. Which of the following is not a well conditioned triangle?
(a) $34^{\circ}, 76^{\circ}, 70^{\circ}$
b) $50^{\circ}, 65^{\circ}, 65^{\circ}$
(c) $44^{\circ}, 53^{\circ}, 83^{\circ}$
(d) $93^{\circ}, 27^{\circ}, 60^{\circ}$
54. Correction of slope when the angle of slope of ground $(\theta)$ is known
(a) $1(1-\cos \theta)$
(b) $1(1-\sin \theta)$
(c) $1(\sin \theta-1)$
(d) $1(\cos \theta-1)$
55. Compensating errors that occur in chaining are proportional to
Where $\mathrm{L}=$ Length of the line.
(a) L (b) $\sqrt{\mathrm{L}}$
(c) $1 / \mathrm{L}$
(d) $1 / \sqrt{\mathrm{L}}$
56. The tension, at which the effects of pull and sag for a tape are neutralized, is known as
(a) initial tension (b)
(b) absolute tensio
(c) surface tension
(d) normal tension
57. A check line in a chain surveying
(a) checks the accuracy of the framework
(b) enables the surveyor to locate the interior details WWW.sakshieducationcomefar away from the main chain lines
(c) fixes up the directions of all other linesww.sakshieducat (id) $594 \mathrm{~mm} \times$ $\times 841 \mathrm{~mm}$
(b) $841 \mathrm{~mm} \times 1189 \mathrm{~mm}$
(d) all of the above
58. The horizon glass in an optical square is
(a) wholly silvered
(b) wholly unsilvered
(c) one-fourth silvered and three-fourth unsilvered
(d) half silvered and half unsilvered
59. The instrument used for setting out an offset at a right angle, is called
(a) open cross-staff(b) french cross-staff
(c) adjustable cross-staff
(d) optical square
60. Collimation method is used in
(a) profile levelling
(b) differential levelling
(c) check levelling
(d) Both (a) and (b)
61. The height of instrument is equal to
(a) reduced level of bench mark + back sight
(b) reduced level of bench mark + fore sight
(c) reduced level of bench mark + intermediate sight
(d) back sight + fore sight
62. The method of leveling in which the heights of mountains are found by observing the temperature at which water boils is known as
(a) barometric levelling (b)
) reciprocal levelling
(c) longitudinal levelling
(d) hypometry
63. A line normal to the plumb line at all points is known as
(a) horizontal line(b) vertical line
(c) level line
(d) line of collimation
64. The traversing by the method of deflection angles is chiefly used in
(a) canals (b)
ghways
(c) railways
(d) all of these
65. In precision theodolite traverse for roads and railways, the angular error of closure should not exceed
(a) $15 " \sqrt{\mathrm{~N}}$
(b) $30 " \sqrt{\mathrm{~N}}$
(c) $45 " \sqrt{\mathrm{~N}}(\mathrm{~d}) 1 " \sqrt{\mathrm{~N}}$
66. When the angular measurements of a traverse are more precise than the linear measurements, the balancing of traverse is done by
(a) transit rule (b) empirical rule
(c) Bowditch's rule
(d) any one of these
67. The method of surveying used for determining the relative height of points on the surface of the earth is called
(a) levelling (b) simple leveling
(c) longitudinal levelling
(d) differential levelling
68. In leveling, the effect of refraction may be taken as
$\qquad$ of that due to curvature.
(a) one-half
(b) one-third
(c) one-fifth
(d) one-seventh
69. The contour lines can cross one another on map only in the case of
(a) a vertical cliff(b) a valley
(c) a ridge (d) an overhanging cliff
70. Following offsets are taken from a survey line to a hedge.

| Distance <br> (in m) | 0 | 5 | 10 | 15 | 20 | 30 | 40 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Offsets <br> (in m) | 3 | 4 | 5.5 | 5 | 6 | 4 | 4.5 |

The area between survey line and the hedge is [By trapezoidal method]
(a) $185.5 \mathrm{~m}^{2}$
(b) $187.5 \mathrm{~m}^{2}$
(c) $189.5 \mathrm{~m}^{2}$
(d) $289.5 \mathrm{~m}^{2}$
d) $289.5 \mathrm{~m}^{2} \quad$ (c) draining well
(a) water reservoir
(b) water treatment plant
(d) waste water reservoir
epresents
(c) water pumping station
r

89.
(b) French curve
(a) Mini drafter
(d) Chinograph
84. Which line is also used to show the cut section of an object?
(a) Outline (b)
(b) Short break line
(c) Hidden line
(d) Object line
85. Which among the following is not to be used as height of letter in engineering drawing?
(a) 5
(b) 7 (c) 2.5
(d) 7.5
86.

is the symbol for which material
(a) steel
(b) wood
(c) brick
(d) stone
87.
 is the symbol for which material
(a) brick
(b) steel
(c) aluminium
(d) rock
88.
 Symbol represents
cleaning well
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www.sakshieducatidn, com
(b) $30 \%$ (c) $15 \%$
(d) $40 \%$
109. Which of the following foundation is used for weaker soil?
(a) column footing
(b) grillage footing
(c) raft footing
(d) All of these
110. A type of foundation most suitable for bridges is
(a) pier foundation
(b) raft foundation
(c) pile foundation
(d) strap foundation
111. The minimum depth of foundation for buildings on clay is
(a) 0.2 to 0.4 m
(b) 0.4 to 0.6 m
(c) 0.6 to 0.9 m
(d) 0.9 to 1.6 m
112. For a rectangular foundation of width $b$, the eccentricity of the load should not be greater than
(a) $b / 3$
(b) b/4
(c) $\mathrm{b} / 5$
(d) b/6
113. For the pre-cast reinforced concrete piles, the quality of concrete recommended is
(a) M 100 to M 150
(b) M 150 to M 200
(c) M 200 to M 250
(d) M 250 to M 300
114. The minimum covering of the reinforcement for the pre-cast reinforced piles used in sea water, is
(a) 40 mm
(b) 55 mm
(c) 75 mm
(d) 100 mm
115. Sheet piles are made of
(a) wood
(b) steel
(c) concrete
(d) all of these
116. The maximum load on the wooden pile should not exceed
(a) 50 kN
(b) 100 kN
(c) 150 kN
(d) 200 kN
117. A semi-rigid material which forms an excellent impervious layer for damp-proofing, is called
(a) bitumen
b) mastic asphalt
(c) aluminal
(d) bituminous felt
118. The cavity wall is generally provided for
(a) preventing dampness
(b) heat insulation
(c) sound insulation
(d) all of these
119. A flexible material used for D.P.C is
(a) bitumen sheeting
(b) plastic sheeting
(c) mastic asphalt
(d) cement concrete
120. The dampness in a building is due to
(a) ground moisture
(b) rain water
(c) defective construction
(d) all of these
121. Hearting is the portion of a
(a) wall not exposed to weather
(b) brick cut across the width
(c) wall between facing and backing
(d) brick cut in such a manner that its one long face remains uncut
122. A course of stone provided immediately below a cornice, is called
(a) blocking course
(b) coping
(c) frieze
(d) parapet
123. The total horizontal pressure at the retaining wall acts at $\qquad$ from the base.
(a) $\frac{\mathrm{h}}{2}$ (b) $\frac{\mathrm{h}}{3}$ (c) $\frac{\mathrm{h}}{4}$ (d) $\frac{\mathrm{h}}{5}$
124. In a raking bond,
(a) all the bricks are laid as headers
(b) all the bricks are laid as stretchers
(c) the arrangement of bricks is similar to English bond
(d) the bonding bricks are laid at any angle other than zero or ninety degree
125. The process of filling up all nail holes, cracks etc. with putty is known as
(a) knotting (b) priming
(c) stopping
(d) finishing
(a) 1 in 20
(b) 1 in 25
(c) 1 in 30 (d.
127. Creep is the $\qquad$ movement of rail.
(a) longitudinal
(b) lateral
(c) vertical
(d) None
128. For undeveloped areas, the type of gauge is adopted.
(a) meter gauge(b) narrow gauge
(c) broad gauge
(d) None of the above
129. The width of top portion of a flat-footed rail, is
(a) 66.67 mm (b) 69.80 mm
(c) 73.25 mm
(d) 75.87 mm
130. For broad gauge track, in Indian railways, the standard length of the rail is
(a) 10.06 m
(b) 10.97 m
(c) 11.89 m
(d) 12.8 m
131. The rail section is designated by its
(a) total length (b) total weight
(c) cross-sectional area
(d) weight per metre length
132. The standard size of wooden sleepers on broad gauge railway track is
(a) $1.52 \mathrm{~m} \times 15 \mathrm{~cm} \times 10 \mathrm{~cm}$
(b) $1.83 \mathrm{~m} \times 20 \mathrm{~cm} \times 11 \mathrm{~cm}$
(c) $2.74 \mathrm{~m} \times 25 \mathrm{~cm} \times 13 \mathrm{~cm}$
(d) any one of these
133. A reflux valve, in a water distribution system, is provided at
(a) low points(b) high points
(c) junction points
(d) all of these
134. An egg-shaped cross-section of a sewer
(a) is economical than circular cross-section
(b) is more stable than circular cross-section
(c) provides self cleaning velocity in dry weather
(d) none of the above
135. A drop manhole is provided if
(a) a sewer drops from a height
(b) a branch sewer discharges into the main sewer at a higher level
(c) both (a) and (b)
(d) none of these
136. In one pipe system of plumbing, waste water is carried away from
(a) bath rooms(b) kitchens
(c) wash basins
(d) all of these
137. For large sewers, the maximum distance between manholes should be
(a) 75 m (b) 150 m
(c) 200 m
(d) 300 m
138. The self cleaning velocity, recommended for Indian conditions, in order to prevent settling down of sewage at the bottom or on the sides of a large sewer is
(a) $0.25 \mathrm{~m} / \mathrm{s}$
(b) $0.50 \mathrm{~m} / \mathrm{s}$
(c) $0.75 \mathrm{~m} / \mathrm{s}$
(d) $1.5 \mathrm{~m} / \mathrm{s}$
139. The open wells or dug wells are also known as
(a) shallow wells(b) draw wells

## ***** ALL THE BEST *******

AP GRAMA/WARD SACHIVALAYAM
GROUP BGRAND TEST -1ANSWER KEY

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

