(c) to hold political office
(d) All of the above
Q. 13 The leader of the Bolshevik party was (a) Stalin
(b) Lenin
(c) kart marx
(d) Louis Blanc
Q. 14 Tsarina Alexandra was of the
(a) German origin
(b) French origin
(c) Russian origin
(d) Dutch origin
Q. 15 Bigha and Cuintha are (a) the type of village house
(b) the type of hybrid seeds
(c) the measuring units of grain
(d) the measuring units of land are in village.
Q. 16 The most abundant factor of population is
(a) labour
(b) land
(c) machinery
(d) All of the above
Q. 17 The two determinants of earning by an individual in the market are:
(a) Health and education
(b) Education and skills
(c) Age and education
(d) Skill and age
Q. 18 Which of the following is included in the primary sector?
(a) Manufacturing
(b) Forestry
(c) Tourism
(d) Communication
Q. 19 The word democracy comes from the greek word
(a) Democracia
(b) Demoskratia
(c) Demos
(d) Kratia
Q. 20 In which period did china face one of the worst famines that have occurred in the world?
(a) 1932-1936
(b) 1958-1961
(c) 2001-2022
(d) 2004-2007

## ANSWER KEY:-

| 11.(A) | $12 .(A)$ | $13 .(B)$ | $14 .(C)$ |
| :--- | :--- | :--- | :--- |
| $15 .(D)$ | $16 .(A)$ | $17 .(B)$ | $18 .(B)$ |
| $19 .(B)$ | $20 .(B)$ |  |  |

## Mathematics

Q. 21 Let $R_{1}$ and $R_{2}$ are the remainders when the polynomials $x^{3}+2 x^{2}-5 a x-7$ and $x^{3}+a x^{2}-12 x+6$ are divided by $2 x+$ 1 and $2 x-3$ respectively. If
$2 R_{1}+R_{2}=2$, then the value of $a$ is
(a) $\frac{-24}{58}$
(b) $\frac{-251}{58}$
(c) $\frac{191}{58}$
(d) Non
(d) None of these
Q. 22 In a quadrilateral $\mathrm{ABCD}, \angle A=$ $(3 x+4)^{0}$ $\angle B=(5 x-6)^{0}, \angle C=(x-3)^{0}$ and $\angle D=(x-5)^{0}$, then the values of $\angle A, \angle B, \angle C$ and $\angle D$ are respectively (a) $115^{\circ}, 179^{\circ}, 34^{\circ}, 32^{\circ}$
(b) $120^{\circ}, 177^{\circ}, 35^{\circ}, 33^{\circ}$
(c) $100^{\circ}, 184^{\circ}, 39^{\circ}, 37^{\circ}$
(d) None of these
Q. 23 The value of $\frac{(0.06)^{2}+(0.47)^{2}+(0.079)^{2}}{(0.006)^{2}+(0.047)^{2}+(0.0079)^{2}}$ is
(a) 0.1
(b) 10
(c) 100
(d) 1000
Q. 24 Determine rational numbers $p$ and $q$ if $\frac{7+\sqrt{5}}{7-\sqrt{5}}-\frac{7-\sqrt{5}}{7+\sqrt{5}}=p-7 \sqrt{5} q$
(a) $p=1, q=-\frac{1}{11}$
(b) $p=0, q=-\frac{1}{11}$
(c) $p=-\frac{1}{11}, q=0$
(d) $p=-\frac{1}{11}, q=1$

Q． 25 The parallel sides of a trapezium are 30 and 20 units and non－parallel sides are 13 and 15 units．Then its area is
（a） $25 \sqrt{15.2 \times 10.8}$
（b） $50 \sqrt{15.2 \times 10.8}$
（c） $10 \sqrt{15.2 \times 10.8}$
（d）$\sqrt{15.2 \times 10.8}$
Q． 26 In a $\triangle A B C$ ，the medians $A D, B E$ and $C F$ intersects at G ．If $\mathrm{AD}=7.2 \mathrm{~cm}$ ，then AG is （a） 4.8 cm
（b） 2.4 cm
（c） 3.6 cm
（d） 1.7 cm
Q． 27 A fort had provision of food for 150 men for 45 days．After 10 days， 25 men left the fort，the number of days for which the remaining food will last，is ：
（a） $29 \frac{1}{5}$
（b） $37 \frac{1}{4}$
（c） $42{ }^{4}$
（d） 54
Q． 28 Find the angle which is four times its compliment is $10^{\circ}$ less than twice its complement
（a） $15^{\circ}$
（b） $10^{\circ}$
（c） $25^{\circ}$
（d） $5^{\circ}$
Q． 29 There are 90 students in class 9th of Career Academy．
（i） $50 \%$ students gets above $85 \%$ marks， （ii） $30 \%$ of students gets above $90 \%$ marks
（iii）remaing students passed above 60\％ marks？
Find the No．of students who gets
（85－90）\％marks in examination
（a） 18
（b） 27
（c） 45
（d） 9
Q． 30 If $=(7+4 \sqrt{3})$ ，then the value of $\sqrt{x}+\frac{1}{\sqrt{x}}$ is ：
（a） 8
（b） 6
（c） 5
（d） 4

## ANSWER KEY：－

21．（C）22．（A）23．（C）24．（B）25．（A） 26．（A）27．（C）28．（D）29．（A）30．（D）

## Mental ability

Q． 31 In certain code language，＇CAREER＇is written as＇DBSFFS＇．Following the same code language，how would you write ＇ACADEMY＇？
（a）BDBEFNZ
（b）BDCEFMZ
（c）CDBEANZ
（d）BABEFNZ
Q． 32 If＇South－East＇is called＇East＇，North－ West＇is called＇West＇，＇South－West＇is called＇South＇and so on，what will＇North be called ？
（a）East
（b）North－East
（c）North－West
（d）South－West
Q． 33 Choose the alternative which most closely resembles the mirror image of the given combination
CAREER ACADEMY
（a）CVYEEy VCVDEW人
（b）YMヲのADA ЯヨЭЯАつ
（c） 1 WGGVDV yGGyvo
（d）$X /$ IED $F C \forall$ BEEBFC
Q． 34 You are given a figure（X）following by four figure（a），（b），（c）and（d）such that $(\mathrm{x})$ is embedded in one of them．Trace out the correct alternative．


Q． 35 Which one of the following four interchanges in signs and／or numbers would make the given equation correct． If $x$ stands for,$+<$ stands for,$->$ stands for $\times,+$ stands for $\div,-$ stands for $=, \div$ stands for $>$ ，and $=$ stands for $<$ then which of the given equations is correct？
（a） $8<4 \times 3-3 \times 2 \times 1$
（b） $8>4<3-3>2<1$
（c） $8+4<3 \div 3<2<1$
（d） $8+4 \times 3=3>2 \times 1$.

Q． 36 Choose the alternative which most closely resembles the water image of the given combination．
FAMILY
（a）HVNILX（b）EVINITX
（c）EVNIIX（d）EFINICX
Q． 37 If（i）$A+B$ means＇$A$ is the husband of $B$＇ （ii）$A \div B$ means＇$A$ is the sister of $B$＇ （iii）$A \times B$ means＇$A$ is the son of $B$＇． Then，which of the following shows that A is the daughter of B ？
（a） $\mathrm{A} \div \mathrm{C} \times \mathrm{B}$
（b） $\mathrm{C} \times \mathrm{B} \div \mathrm{A}$
（c） $\mathrm{B}+\mathrm{C} \times \mathrm{A}$
（d） $\mathrm{C} \times \mathrm{B}+\mathrm{C} \div \mathrm{A}$
Q． 38 How many triangles are there in the following figure？
（a） 16
（b） 24
（d） 28
（d） 32


Q． 49 Insert the missing letter or numerical value in following questions．
（a） 33
（b） 145
（c） 120
（d） 18 ．

Q． 40 Four problem figures are given．Select figure from amongst the answer figures which will continue the same series as given in the problem figures．


