ఒక సరళరేఖ $2x + y = 0$, $x + y + 1 = 0$ రేఖలతో అనుషక్తమవుతూ $y = 2x$ కు లంబంగా ఉంది. ఆ సరళరేఖ

1) $2y + x + 3 = 0$ 2) $2y + x - 3 = 0$
3) $2y + x + 1 = 0$ 4) $2y + x - 1 = 0$

148. Area (in square units) of the rectangle formed by the coordinate axes and the lines $x = 2$, $y = 3$ is

నిరూపకాక్షాలు $x = 2$, $y = 3$ సరళరేఖలతో ఏర్పడు దీర్ఘ చతురస్ర వైశాల్యం (చదరపు యూనిట్లలో)

1) 6   2) 12   3) 24   4) 36

149. If $C_0, C_1, C_2, ..., C_{50}$ are the binomial coefficients in the expansion of $(1 + x)^{50}$ then

$$1 \cdot \frac{C_1}{C_0} + 2 \cdot \frac{C_2}{C_1} + ... + 50 \cdot \frac{C_{50}}{C_{49}} =$$

$C_0, C_1, C_2, ..., C_{50}$ లు $(1 + x)^{50}$ విస్తరణలోని ద్విపద గుణకాలయితే

$$1 \cdot \frac{C_1}{C_0} + 2 \cdot \frac{C_2}{C_1} + ... + 50 \cdot \frac{C_{50}}{C_{49}} =$$

1) 1255   2) 1265   3) 1275   4) 1285

150. Which term in the expansion of $\left(x - \frac{1}{x^2}\right)^{40}$ is independent of x ?

$\left(x - \frac{1}{x^2}\right)^{40}$ విస్తరణలోని ఏ పదం x లేని పదం ?

1) 7th 2) 8th 3) 9th 4) 11th

SECTION – C
Communication Ability

PART – 1

Questions : 50   Marks : 50
ప్రశ్నలు : 50   మార్కులు : 50

Fill in the blanks with appropriate verbs :

151. He stood at the centre of the room and .... to cry
1) begin   2) begun
3) began   4) had began

152. In order to .... the deadline for payment of fees, the students went in a procession to the principal's room
1) extend   2) accelerate
3) move   4) forward

153. "It is quite dark here. Please ...... the light".
1) put   2) burn   3) switch   4) switch on

154. Dr. Mukherjee .... practicing medicine since 1985.
1) is   2) has been
3) had been   4) shall be

155. The change in climate may .... your health.
1) effect   2) affect   3) inflict   4) reflect

Choose the correct answer :

156. 'Portal' in the context of internet means
1) a text file   2) a web site
3) a search engine   4) an address

157. 'Bullish' operation in stock exchange implies
1) fall in prices of shares
2) rising restrictions by SEBI
3) decontrol of stock exchange operations
4) rise in prices of shares

158. Bankrupcy generally implies
1) Collapse of banks
2) failure of banking organisation
3) slump in economy
4) inability to pay ones debt

159. Bourse is
1) a stock exchange
2) a financial document
3) a programming language
4) a shipping document

160. Byte in the context of computer is
1) a group of files
2) a certain number of bits
3) an algorithm
4) the basic processor

161. A : "It is half past two let me have lunch".
A implies that
1) he'll have his two course lunch
2) half of his work is over
3) the time is 2.30 and he intends to have his lunch
4) two of his associates have gone and he intends to have lunch

162. X : "Will the market stabilise ?"
Z : "Lets hope so"
1) Z is pessimistic   2) Z is doubtful
3) Z is optimistic   4) Z is despondent

163. A : "I think that TV had a very bad influence on people".
B : "I wouldn't say that"
B is
1) agreeing with A   2) expressing doubt
3) disagreeing with A
4) expressing disappointment

164. A : "I haven't seen you around. You must be new".
B : "Yes, I am".
A uses the helping word "must" to
1) emphasise his statement
2) draw an inference
3) express necessity
4) express surprise

165. "Women are better drivers than men" Implies that women drivers are
1) faster   2) courteous
3) interested in driving   4) more careful

PART – 2

Fill in the blanks with appropriate prepositions :

166. A student should not be taught more than he can think ....
1) with   2) for   3) about   4) off

167. The coach dived .... the swimming pool.
  1) in 2) into 3) onto 4) upon

168. The Prime Minister accepted ...... the offer of bilateral talks made by the president of Pakistan
  1) to 2) with 3) for 4) so preposition

169. She works quite hard. You can't accuse her .... being lazy
  1) with 2) on 3) off 4) of

170. The plan of action proposed by the Chief Minister is in consonance .... "Vision 2020"
  1) to 2) for 3) about 4) with

Read the following passage and answer questions 171–175 :

The internet is clearly the foremost among new information technologies that promise to significantly impact the day to day circumstances of all social relations. The Internet is a real example of broad band wide area computer network that allows each individual user an equal voice or atleast an equal opportunity to speak. Increasing number of people upon discovering the Internet are enamoured by the technology's ability to publicly legitimate their self–expression and by the freedom it provides from traditional space and time barriers. A central question is whether, as is often claimed, this empowerment and the ability to connect with increasing ease to ever growing numbers of like minded people encourage a sense of community.

171. The central question for the writer is whether the internet
  1) provides freedom of expression
  2) encourages sense of community
  3) Impacts upon daily activities
  4) legitimates self expression

172. "Empowerment" means
  1) invested with power
  2) connected to the world wide web
  3) legitimating relationship
  4) receiving continuous supply of power

173. The Internet is a network that allows
  1) many voices speaking at once
  2) each individual user avoice
  3) more individual more voices
  4) dialogues

174. 'Enamoured by the technology' implies people are
  1) using the technology
  2) finding freedom through the technology
  3) popularising the technology
  4) won over by the technology

175. Internet is a new technology that
  1) disturbs daily living
  2) Influences social relations
  3) makes many promises
  4) is not so significant

PART – 3

Read the following passage and answer questions 176–180 :

Success does not mean the absence of failures. It means the attachment of ultimate objectives. It means winning the war, not every battle. We have met people and who literally wander through life. They simply accept whatever fat brings them. A few may succeed by accident, but most suffer through a lifetime of frustration and unhappiness. Have you ever wondered why some individuals, organisations are more successful than others ? It is not a secret. These people simply think and act more effectively. They have learnt how to do so by investing in the most valuable asset viz. people. The success of an individual organisation or country depends on the quality of the people. People can be your biggest asset or your biggest liability.

176. According to the author success means
  1) winning every battle
  2) absence of failure
  3) attainment of ultimate objectives
  4) escaping accidents

177. By wandering through life
  1) one succeeds
  2) one meets accidents
  3) one suffers
  4) a few succeed and most suffer

178. The reason why some individuals are more successful than others
  1) is a secret
  2) is due to the fact that they think and act more effectively
  3) is due to the possession of large assets
  4) is due to the fact that they are learned

179. The success of an organisation depends on the
  1) quality of their people
  2) quality of the organisation
  3) assets and the liabilities
  4) quality of the country

180. The passage is about
  1) organisation 2) people
  3) country 4) success of people

Read the following passage and answer questions 181–185 :

Advertising is the practice of informing and influencing others not personally known to the communicator through paid messages in the media. From humble origins, advertising has developed in parallel with modern industrial society and the mass media., News sheets in the 17th century carried brief statements, but it was not until the late 19th century, with the advent of mass production of consumer goods, that the industry developed on the huge scale found today. Advertising for consumer goods, whether of the 'fast moving' variety (e.g. Washing powders) or 'durables' (e.g. cars) has long been the most conspicuous kind, on poster sites, in the press, and on

television. 'Display' ads for such products in newspapers or magazines are characterised by their size and use of graphics (especially photographs), slogans, and large type. In contrast, 'classified' ads are typically single-column width, consisting of words only and grouped together under headings (e.g. 'personal', 'situations vacant', or 'wanted'). Other approaches include direct marketing (by post or telephone) and direct response advertising (via tear–off coupons), both of which have resulted from the difficulty mass media advertising has in reaching a target audience and measuring its own effectiveness.

181. **'Conspicuous'** in this passage means
1) effective
2) influential
3) noticeable
4) direct

182. **"Display ads for <u>such</u> products in newspapers........"**
The word <u>such</u> refers to
1) soaps
2) consumer goods
3) slogans
4) large type

183. **Advertising industry started developing on a large scale.**
1) In the early 17th century
2) towards the end of the 19th century
3) in the late 17th century
4) at the beginning of the 19th century

184. **Which among the following does not come under 'durables' ?**
1) washing machines
2) cars
3) soaps
4) television

185. **What was mainly responsible for the large scale development of the advertising industry**
1) Industrial society
2) mass media
3) graphics
4) mass production of consumer goods

PART – 4

Choose the correct answer :

186. **Rescind** means
1) enable
2) repeat
3) invalidate
4) wind up

187. **'Bench mark'** means
1) a standard
2) a marked bench
3) a mark on a bench
4) water mark

188. **'Band width'** is
1) the capacity of the network to carry information
2) the width of the cable
3) the width of the optical fibre
4) the width of the spectrum

189. **A 'Trademark'** implies
1) A well known and heavily advertised product
2) a legal status especially when registered with the government
3) goods that can be sold in good faith
4) international recognition of the product

190. **A 'Modem'** is
1) a computer's short term memory
2) a device needed to send information from one computer to another through telephone lines
3) a device for regulating the computing speed
4) a device for enhanced performance of the computer

Fill in the blanks choosing the correct word/ phrase :

191. **The manager .... his staff on their excellent performance.**
1) complimented
2) complemented
3) supplicated
4) reprimanded

192. **Who will .... the children, while their mother is in hospital ?**
1) look for
2) look at
3) look after
4) look upon

193. **He has a reputation .... honesty.**
1) with
2) for
3) at
4) of

194. **The building does not have the basic ....**
1) aberrations
2) ablutions
3) amenities
4) angularities

195. **Don't scold the boy; he'll .... in time**
1) come round
2) come back
3) come through
4) come over

Choose the correct meaning for the word :

196. **Attribute means**
1) impute
2) retribute
3) arrange
4) affect

197. **Venal means**
1) poisonous
2) disease
3) revengeful
4) corrupt

198. **Impetus means**
1) motivating force
2) plan
3) money
4) impetuousness

199. **Tenuous means**
1) heavy
2) insistent
3) stringent
4) weak

200. **Preclude means**
1) insure
2) necessitate
3) exaggerate
4) prevent

ICET-2002 KEY WITH SOLUTIONS

1) 4	2) 3	3) 1	4) 3	5) 3	6) 3	7) 2	8) 4	9) 4	10) 4
11) 3	12) 3	13) 3	14) 3	15) 3	16) 3	17) 3	18) 3	19) 2	20) 1
21) 2	22) 4	23) 4	24) 1	25) 3	26) 2	27) 2	28) 1	29) 3	30) 2
31) 3	32) 2	33) 3	34) 1	35) 4	36) 2	37) 3	38) 4	39) 2	40) 4
41) 3	42) 1	43) 3	44) 2	45) 2	46) 4	47) 3	48) 3	49) 4	50) 1
51) 2	52) 1	53) 2	54) 1	55) 3	56) 2	57) 3	58) 4	59) 2	60) 3
61) 1	62) 1	63) 1	64) 4	65) 2	66) 4	67) 2	68) 1	69) 3	70) 4
71) 2	72) 2	73) 2	74) 1	75) 3	76) 1	77) 3	78) 1	79) 2	80) 3
81) 1	82) 1	83) 2	84) 4	85) 2	86) 3	87) 2	88) 4	89) 3	90) 4
91) 2	92) 4	93) 2	94) 4	95) 2	96) 4	97) 1	98) 1		
99) Wrong problem			100) 3	101) 3	102) 2	103) 3	104) 4	105) 1	106) 2
107) 4	108) 2	109) 2	110) 1	111) 4	112) 2	113) 3	114) 4	115) 1	116) 3
117) 2	118) 1	119) 3	120) 1	121) 2	122) 1	123) 1	124) 4	125) 1	126) 2
127) 1	128) 2	129) 3	130) 4	131) 1	132) 1	133) 1	134) 2	135) 2	136) 1
137) 3	138) 3	139) 3	140) 4	141) 1	142) 2	143) 1	144) 4	145) 1	146) 2
147) 1	148) 3	149) 3	150) 4	151) 3	152) 1	153) 4	154) 2	155) 2	156) 2
157) 4	158) 4	159) 3	160) 2	161) 3	162) 3	163) 3	164) 2	165) 4	166) 3
167) 2	168) 4	169) 4	170) 4	171) 2	172) 1	173) 2	174) 4	175) 2	176) 3
177) 4	178) 2	179) 1	180) 4	181) 3	182) 2	183) 2	184) 3	185) 4	186) 4
187) 1	188) 1	189) 2	190) 2	191) 1	192) 3	193) 2	194) 3	195) 1	196) 1
197) 4	198) 1	199) 4	200) 4						

ICET-2002 SOLUTIONS FOR TOUGH QUESTIONS

1. **(4)** Since we cannot get the sides of rectangle from both the statements.

2. **(3)** Given $x + y = 1 \Rightarrow y = 1 - x$
   Substituting $y = 1 - x$ in $x^2 + y^2 = 25$
   $x^2 + (1 - x)^2 = 25$
   $\Rightarrow x^2 + 1 + x^2 - 2x - 25 = 0$
   $\Rightarrow 2x^2 - 2x - 24 = 0$
   $\Rightarrow x^2 - x - 12 = 0$
   $\Rightarrow x^2 - 4x + 3x - 12 = 0$
   $\Rightarrow x(x - 4) + 3(x - 4) = 0$
   $\Rightarrow (x + 3)(x - 4) = 0$
   $\Rightarrow x = -3$ or 4
   $\therefore y = (1 - (-3)) = 4$ or $1 - 4 = -3$
   $\therefore x^3 + y^3 = (-3)^2 + 4^3 = 37$
   (or)
   $x^3 + y^3 = (4)^3 + (-3)^3 = 37$
   $\therefore$ Statements I and II are sufficient.

3. **(1)** Since some composite numbers greater than 1 is not divisible by 2 (eg : 9)

4. **(3)** Both statements together are sufficient to answer the question.

5. **(3)**

6. **(3)** Age of son at present = 7 years
   Age of son after 7 years = 7 + 7 = 14 years
   The ratio of ages of father and
   son after 7 years = 1 : 3
   $\therefore$ Age of father = 42 years = A's age

7. **(2)** Since the product of two irrationals is an irrational number.

8. **(4)** Data are in sufficient.

9. **(4)** Data are in sufficient.

10. **(4)** Data are in sufficient.

11. **(3)** Statements I and II are sufficient.

12. **(3)** The line joining the r. d points of two sides will be half of the third side (i.e)
    $\frac{AC}{2} = \frac{7}{2} = 3.5.$

13. **(3)** With both 1 & 2 we can get x = 2

14. **(3)** Scalar matrix $A = \begin{bmatrix} a & 0 & 0 \\ 0 & a & 0 \\ 0 & 0 & a \end{bmatrix}$
    As $a \neq 1$
    We can say that 'A' is a scalar matrix.
    Statements I and II are sufficient.

15. **(3)** From 1 2ch + 1t = 1100
    2 1c + 2t = 1300
    Simplifying both 1 ch = 300
    1 t = 500

16. **(3)** From 1 & 2 we can get the values of P, R & N

17. **(3)** As 'A' crosses a telegraphic pole in less time, 'A' is moving faster.
    $\therefore$ Statements I and II are sufficient.

18. **(3)** Given x = 1
    $\therefore 6^1 - 3^y = 0$
    Statements I and II are sufficient.

19. **(2)** Area of an equilateral triangle $= \frac{\sqrt{3}}{4} a^2$
    $\therefore \frac{\sqrt{3}}{4} \cdot 16 = \sqrt{3} . 4 = 4\sqrt{3}$ sq. units.
    $\therefore$ Statement II alone is sufficient.