| 91. | Percentage of water absorbed by raisins is: | | | | | | | | | | | |
|------|--|-----------------------------------|-----------|----------------|---------|------------|------------------|----------|-------------------|--|--|--|
| | (1) | Directly propo | rtional | to the weig | ht of | dry ra | isins | | | | | |
| | (2) Inversely proportional to the weight of dry raisins. | | | | | | | | | | | |
| | (3) | Equal to the w | eight o | f dry raisin | s. | | | | | | | |
| | (4) | None of these. | | | | | | | | | | |
| 92. | According to the Law of Reflection : | | | | | | | | | | | |
| | (1) | The angle of ir | ncidenc | e is equal to | the a | angle (| of reflection. | | | | | |
| | (2) | The angle of ir | ncidenc | e is double | the ar | ngle o | f reflection. | | | | | |
| | (3) | The angle of re | eflection | n is double | the ar | ngle of | f incidence. | | | | | |
| | (4) | None of the ab | ove. | | | | | | | | | |
| 93. | The c | haracters trans | mitted | from paren | ts to | offspr | ings are preser | nt in : | | | | |
| | (1) | cytoplasm | (2) | ribosome | | (3) | golgi bodies | (4) | genes | | | |
| 94. | | oranch of biolo is termed as : | gy dea | ling with th | ne trai | nsmis | sion of charact | ers from | one generation to | | | |
| | (1) | Mycology | (2) | Genetics | , | (3) | Anatomy | (4) | Physiology | | | |
| 95. | The S | I unit of conve | rging a | bility of a le | ens is | : | | | | | | |
| | (1) | cm | (2) | m | ٠ | (3) | dioptre | (4) | power | | | |
| 96. | An al | loy is: | | | | | | | | | | |
| | (1) | an element | | | (2) | a co | mpound | | | | | |
| | (3) | a homogenous | s mixtu | re | (4) | a he | terogenous mi | xture | | | | |
| 97. | The fo | ossil remains o | of Archa | aeopteryx is | a cor | nnectii | ng link betwee: | n : | | | | |
| | (1) | s | (2) | _ | | | | | | | | |
| | (3) | fish and amph | nibian | | (4) | amp | ohibian and rej | ptile | | | | |
| 98. | A pacemaker is meant for : | | | | | | | | | | | |
| | ` ' | transplanting | | | (2) | | splanting hear | | | | | |
| | (3) | regulation of l | neart be | eats | (4) | regu | ılation of blood | d flow | | | | |
| 99. | | wable energy is | ^ | red over th | e con | | 0. | they are | : | | | |
| | (1) non-exhaustible | | | | | (2) costly | | | | | | |
| | (3) | highly efficien | ıt | | (4) | non | e of these | | | | | |
| 100. | The p | oH of the gastri | ic juices | s released d | uring | diges | tion is: | | | | | |
| | (1) | less than 7 | | | (2) | | e than 7 | | | | | |
| | (3) | equal to 7 | | | (4) | | al to 0 | | | | | |

PART-B

SECTION-V (ii): MATHEMATICS

- 101. The value of $\frac{1}{\sqrt{2} + \sqrt{3} \sqrt{5}} + \frac{1}{\sqrt{2} \sqrt{3} \sqrt{5}}$ is:

 - (1) $\frac{1}{\sqrt{2}}$ (2) $\frac{1}{\sqrt{3}}$ (3) $\frac{1}{\sqrt{5}}$

- 1 (4)
- 102. How many numbers between 1 and 1000 contain all the numbers 2, 3, 4, 5, 6 as factors?
 - (1)20

18 (2)

16 (3)

12 (4)

- **103.** The value of $\frac{(0.734)^2 (0.266)^2}{468}$ is:
 - 1.010 (1)
- 1.000 (2)
- 1.001 -(3)
- 1.100 (4)
- 104. A manufacturer sells a pen to a wholesaler at a profit of 18%, the wholesaler sells it to a retailer at a profit of 20%. The retailer sells it to a customer at a profit of 25%. If the customer pays Rs. 35.40, the cost of the manufacturer is:
 - Rs. 15 (1)
- (2)Rs. 17
- (3) Rs. 20
- Rs. 22 (4)
- 105. There are 600 men in a fort. If each one of them is given 180 g of ration daily, there is ration enough for 35 days. If 300 men are increased and the ration is decreased to 150 g daily, the number of days for which the ration will be sufficient now is:
 - (1)30 days
- 28 days (2)
- 25 days (3)
- 24 days (4)
- 106. The difference between compound and simple interest on a certain sum for 3 years at 10% is Rs. 31. The sum is:
 - Rs. 1500 (1)
- Rs. 1200 (2)
- Rs. 1000 (3)
- Rs. 800 (4)
- 107. An article is sold for Rs. 400 cash down or Rs. 100 cash and three monthly instalments of Rs. 105 each. The rate of interest under instalment plan is :
 - 30.77% (1)
- 32.70% (2)
- 33% (3)
- 35% (4)

| 108. | A stu | dent has to obtai marks. The tota | n 40% 1 mar | 6 marks to pass the | ne exa ation | mination. He sec are : | ures 4 | 40 marks and fails |
|--|-------|---|-----------------------------|--|------------------|---------------------------------------|-----------------|--|
| | (1) | 180 | (2) | 160 | (3) | 150 | (4) | 125 |
| | | | | | | | | |
| 109. | cycle | yclist moves at 24 s at 30 km per ho st covers is : | 4 km our, f | per hour, he reac ne reaches his des | hes hi tinati | s destination 5 m on 4 minutes too | inutes soon. | too late and if he The distance the |
| | (1) | 15 km | (2) | 18 km | (3) | 20 km | (4) | 22 km |
| | | | | | | | | |
| 110. | The v | value of $\frac{\tan 45^{\circ}}{\csc 30^{\circ}}$ | $\frac{1}{c} + \frac{s}{c}$ | $\frac{\text{ec }60^{\circ}}{\text{ot }45^{\circ}} - \frac{5 \sin 90^{\circ}}{2 \cos 0^{\circ}}$ | is: | | | |
| | (1) | 1 | (2) | -1 | (3) | 0 | (4) | 2 |
| | | | | | | | | |
| 111. | The | value of (cosθ – si | nθ) ² - | $+(\cos\theta+\sin\theta)^2$ is: | | | | |
| | (1) | 2 | (2) | -2 | (3) | 1 | (4) | 0 |
| | | | | | | | | |
| 112. If from a point 20 m away from the foot of a tower, the angle of elevation of the top of the tower is 30°, then the height of the tower is : | | | | | | | | |
| | (1) | 20√3 m | (2) | $\frac{20}{\sqrt{3}}$ m | (3) | $10\sqrt{3}$ m | (4) | $\frac{10}{\sqrt{3}}$ m |

113. In a mixture of 35 litres, the ratio of milk and water is 5:2. Another 5 litres of milk is added to the mixture. The ratio of milk and water in the new mixture is:

- (1) 3:1

- (2) 1:3 (3) 2:3 (4) 3:2

114. If the radius of its circumcircle of a right angled triangle is 3 cm and altitude drawn to the hypotenuse is 2 cm, its area would be:

- (1) 12 sq. cm
- 9 sq. cm (2)
 - (3) 6 sq. cm
- (4) 4 sq. cm

| | | e cubes each of vo | | 125 cm ³ are joine | d end | to end to form a c | uboid | 1. The surface area |
|------|------|----------------------------|---------|-------------------------------|---------|---------------------|---------|---------------------|
| | (1) | 350 cm^2 | (2) | 300 cm ² | (3) | 175 cm ² | (4) | 150 cm ² |
| 116 | Α | harical ball of di | amata | r 21 cm is melted | land | recasted into cub | es eac | th of side 1cm, the |
| 110. | num | ber of cubes thus | form | ed is: | unu | recapted 15th only | | , |
| | (1) | 693 | (2) | 809 | (3) | 1617 | (4) | 4851 |
| | . • | | | | | | | |
| 117. | | mean of 5 numb ber is : | ers is | 18. If one numb | er is e | excluded, their me | ean is | 16. The excluded |
| , | (1) | 90 | (2) | 64 | (3) | 26 | (4) | 80 |
| 118. | Thre | ee unbiased coins | are to | ossed. The proba | bility | of obtaining at lea | ıst two | o tails is : |
| | (1) | $\frac{1}{8}$ | (2) | $\frac{3}{8}$ | (3) | $\frac{1}{2}$ | (4) | $\frac{1}{4}$ |
| | | | | | | | | |
| 119. | The | circumcentre of | a triaı | ngle whose vertic | es are | (-2, -3), (-1, 0 |), (7, | -6) is: |
| | | (3, -3) | | | (3) | (-3, 2) | (4) | (2, -2) |
| 120. | | | | | Progr | ression (A. P.) 17, | 14, 11 | .,, -40 is equa |

to: (3) -22 (4) -24

(1) -21 (2) -25

PART-B

SECTION-V (iii): SOCIAL SCIENCE

Choose the correct answer out of the four: **121.** Which type of the forest belt supplies most of the world's requirement of Newsprint? Evergreen forest (1)(2)Decidous forest (3) Coniferous forest (4)Mediterranian forest 122. Who were the first of the kings to issue gold coins in India? (1)Mauryas (2)Indo Greeks (3) Guptas (4)Kushans 123. Dhai-Din-Ka-Jhopra at Ajmer was constructed by : (1)Sher Shah Suri (2) Qutb-ud-Din Abak (3) Jalaludin-Firoz-Khilzi Balban (4)124. In which of the following countries Gramin Bank (known as the Bank of the Poor) is based: (1)Pakistan Sri Lanka (2) (3) India Bangladesh (4)125. In which of the following states, the anti defection law was enacted in 1979? (1)Kerala (2)Jammu and Kashmir West Bengal (3)Tamil Nadu (4) 126. As per India Protocol who among the following ranks is the highest in the order of protocol? (1)Deputy Prime Minister (2)Former President (3) Governor of a state within the state **(4)** Speaker of Lok Sabha

(2)

a Vedic rishi

(3) a Jain Monk (4) a Budhist Philosopher

127. Who was Nagarjuna?

(1)

Indian Emperor

| 128. | Wha | at are 'teaser loan rates' charged by banks ? | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|
| | (1) | Fixed rate of interest charged by banks | | | | | | | | |
| | (2) | Floating rate of interest charged by banks | | | | | | | | |
| | (3) | Rate of interest in the initial period is less and goes up subsequently | | | | | | | | |
| | (4) | Rate of interest in the initial period is more and it goes down subsequently | | | | | | | | |
| 129. | Who | amongst the following has asked Banks to adopt 'Six Steps' approach to prevent diversion ands by the companies? | | | | | | | | |
| | (1) | Company Registrar (2) SEBI (3) RBI (4) AMFI | | | | | | | | |
| | | | | | | | | | | |
| 130. | The | only viceroy to be assassinated in India was: | | | | | | | | |
| | (1) | Lord Hardings (2) Lord Northbrooke | | | | | | | | |
| | (3) | Lord Ellenborough (4) Lord Mayo | | | | | | | | |
| | | | | | | | | | | |
| 131. | Acc | ording to the Constitution of India the term 'District judge' shall not include : | | | | | | | | |
| | (1) | Chief Presidency Magistrate (2) Session judge | | | | | | | | |
| | (3) | Tribunal judge (4) Chief judge of a small cause court | | | | | | | | |
| | | | | | | | | | | |
| 132. | Des Hea | pite being a Republican state, India is a member of the Common-Wealth of Nations whose ad is the British Monarch. This is because: | | | | | | | | |
| | (1) | The membership does not affect the sovereign nature of the Indian Republic | | | | | | | | |
| | (2) | This membership only shows that the British ruled over India | | | | | | | | |
| | (3) | Members of the Association are sovereign and independent | | | | | | | | |
| | (4) | It is a symbol of the unity among British dominated nations. | | | | | | | | |
| | | | | | | | | | | |
| 133 | 33. When was the New Liberalised Industrial Policy announced in India? | | | | | | | | | |

(2)

1989

(1)

1990

(4)

1991

(3)

1992

| 134. | The punch line 'we invest in your dreams' is of which of the following banks? | | | | | | | |
|------|---|------------------------|-------------------|--------|------|-----------------|----------|---|
| | (1) | Jammu and Kashmir Bank | | | Punj | | | |
| | (3) | State Bank of India | a | (4) | UTI | Bank | | |
| | | | | | | | | |
| 135. | The l | nomeland of Yakuts | s is: | | | | | |
| | (1) | Iran (2 | 2) Russian Ti | undra | (3) | Kenya | (4) | North India |
| | | | | 1 | | | | |
| 136. | The | crystal layer of the e | earth is also cai | iea : | | | | |
| | (1) | Sial (Z | 2) Sima | | (3) | Moho | (4) | Nife |
| | 7.17I | 1.1 Cilcontent | la companya in ta | ina an | alma | oct uniform to | mneratur | o ? |
| 137. | Whi | ch layer of the atmo | ospnere mamia | | | | трегасиг | C : |
| | (1) | troposphere | | (2) | trop | opause | | |
| | (3) | stratosphere | | (4) | ionc | sphere | | |
| | | | (0) | | | | | |
| 138. | Wha | t is meant by the te | erm 'Cirrus' ? | | | | | |
| | (1) | a low cloud | | (2) | a hi | gh cloud | | |
| | (3) | a rain bearing clo | ud | (4) | a ha | ail bearing clo | ud | |
| | | | 1.1 | | | | | |
| 139. | The | Title Vikramaditya | was assumed | by: | | | | |
| | (1) | Ashoka | | (2) | Cha | ndraputa - II | [| e de la companya de La companya de la co |
| , | (3) | Kanishka | | (4) | San | nudragupta | | |
| 4.40 | 7 4 77 | . 1 1 | to an the cor | ionas | koon | or of Candhiii | 2 | |
| 140. | . Wh | o has been referred | | | | | ì | |
| | (1) | C. Rajgopalachar | i | (2) | R. 7 | Tagore | | |
| | (3) | V. Patel | | (4) | G.K | C. Gokhale | | |

(3)

PART-B

SECTION-V (iv): ENGLISH

Choose the most appropriate response out of the four choices given after every question. Each question carries one mark.

| 141. | The j | phrase 'Hobson's | choic | e' means : | | | | | | |
|------|---|----------------------------------|--------------------|-------------|--------|---------|-------------------|-----|--------------|--|
| | (1) a predetermined pick falsely offered as an option | | | | | | | | | |
| | (2) | (2) an improbable stroke of luck | | | | | | | | |
| | (3) | 3) an avoidable mistake | | | | | | | | |
| | (4) | a choice one car | take | from the gi | ven o | ptions | | | | |
| 142. | The | phrase 'mare's ne | esť m | ean : | | | | | | |
| | (1) | comfortable sur | round | lings | (2) | a cha | aotic state | | , | |
| | (3) | unattainable de | stinat | ion | (4) | a de | ceptive discovery | | | |
| 143. | A do | octor who special | ises ir | the treatme | ent of | eyes i | s called : | | | |
| | (1) | cardiologist | (2) | | | (3) | \ | (4) | orthopaedist | |
| 144. | Cho | ose the correctly | spelt [.] | word: | | | | | | |
| | (1) | seudonym | (2) | sudonym | | (3) | pseudonym | (4) | psudonym | |
| 145. | Cho | ose the correctly | spelt | word : | | | | | | |
| 220. | (1) | alliance | (2) | aliance | | (3) | allianse | (4) | alianse | |
| 146 | The | indirect form of | the se | entence : | | | | | | |
| 110 | | ela asked her son | | | schoo | ol bagʻ | ?" | ٠ | | |
| | | | , | , | | ~ | | | | |

Sheela asked her son where is your school bag.

Sheela asked her son where his school bag was.

Sheela asked her son where his school bag is.

Sheela asked her son where is his school bag.

(1)

(2)

(3)

(4)

| 147. | The | The indirect form of the sentence : | | | | | | | | | |
|-------------|---|---|---|--------------|----------------|---------|---------------------|---------|-------------|--|--|
| | Mali | ik said, " I went to Europe last year". | | | | | | | | | |
| | (1) | Malik said that | Malik said that I went to Europe last year. | | | | | | | | |
| | (2) | Malik said that | he w | ent to Euro | pe last | t year. | | | | | |
| | (3) | Malik said he l | nad go | ne to Europ | e last | year. | | | | | |
| | (4) | Malik said that | I had | gone to Eu | rope l | ast ye | ear. | | | | |
| 148. | The passive voice of "I have finished my work" is : | | | | | | | | | | |
| | (1) | My work is fin | ished. | | (2) | My | work has been f | inished | 1. | | |
| | (3) | My work have | finish | ed by me. | (4) | _ | work has been f | | | | |
| 149. | The | active voice of " | Amit v | was punishe | ed by | his tea | acher for not doi | ing his | home work". | | |
| | (1) | Amit punished | | | | | | O | | | |
| | (2) | | | | | - | | | | | |
| | (3) | Amit not doing his homework was punished by his teacher. Amit's teacher punished him for not doing his homework. | | | | | | | | | |
| | (4) | His teacher pu | _ | | | _ | | | | | |
| | . , | 1 | | | O _z | | | | | | |
| Direc | ctions | s : (15 0 - 152) | | | | | | | | | |
| | In qı | uestions 150-152, | choose | the most ap | propri | ate wo | ords to fill in the | blanks. | | | |
| | | | | • | . , | | - | | | | |
| 150. | Sarik | ka to | go h | ome next m | onth. | | | | | | |
| | (1) | have | (2) | will | | (3) | had | (4) | has | | |
| 151. | I me | t my friend | | thirty yea | rs. | | | | | | |
| | (1) | since | (2) | from | | (3) | after | (4) | till | | |
| | () | | \ / | | | (-) | , | (-) | | | |
| 152. | Marc | co Polo | on | his journey | to C | hina v | vith his uncle. | | | | |
| | (1) | set off | (2) | set back | | (3) | set by | (4) | set about | | |
| 153. | In w | hich of the follo | wing p | olays of Sha | kespe | are Po | ortia was the her | oine ? | | | |
| | (1) | Hamlet | | · | (2) | | g Lear | | | | |
| | (3) | The Merchant | of Ven | ice | (4) | Oth | - | | , | | |
| 154. | Who | wrote the poem | 'Rim | of the And | rient N | Narine | ar' ? | | | | |
| | (1) | Keats | (2) | Coleridge | | (3) | Wordsworth | (4) | Shelley | | |
| | \ / | | (- / | | | (~) | | (*) | Ji iciic y | | |

| 155. | 5. Who wrote the novel 'Far from the Madding Crowd' ? | | | | | | | | |
|------|---|--------------------------------------|----------|--|--|--|--|--|--|
| | (1) | Thomas Hardy | (2) | George Eliot | | | | | |
| | (3) | Emily Bronte | (4) | Jane Austen | | | | | |
| | | | | | | | | | |
| 156. | Who | wrote the play ' Man and Supern | nan' ? | | | | | | |
| | (1) | Samuel Beckett | (2) | George Bernard Shaw | | | | | |
| | (3) | Eugene O'Neil | (4) | Shakespeare | | | | | |
| | • | | • | | | | | | |
| 157. | In w | which novel of Charles Dickens is l | Peggo | tty a character? | | | | | |
| | (1) | Oliver Twist | (2) | David Copperfield | | | | | |
| | (3) | Great expectations | (4) | A tale of two cities | | | | | |
| | | | | | | | | | |
| 158. | . Whi | ich of the following is not a poet o | of the I | Romantic Age ? | | | | | |
| | (1) | Keats (2) Shelly | | (3) Browning (4) Wordsworth | | | | | |
| | | | | | | | | | |
| 159 | . In t | he sentence, If it rains on Wedneso | day, tl | ne match will be cancelled If it rains is a: | | | | | |
| | (1) | Noun clause | (2) | Adjective clause | | | | | |
| | (3) | Adverb clause | (4) | Conditional clause | | | | | |
| | | | | | | | | | |
| 160 | . In t | he sentence 'He is the boy who ha | s com | e from Nepal' who has come from Nepal is a | | | | | |
| | (1) | Noun clause | (2) | Adjective clause | | | | | |
| | (3) | Adverb clause | (4) | none of the above | | | | | |

(3) Adverb clause