SCHOOL EDUCATION & LITERACY DEPARTMENT JHARKHAND, RANCHI

AND

JHARKHAND ACADEMIC COUNCIL RANCHI

NATIONAL TALENT SEARCH EXAMINATION (Stage-I) 2018-19

Class X
SCHOLASTIC APTITUDE TEST

4TH NOVEMBER 2018

| Roll No. |
|----------|
|----------|

JHARKHAND ACADEMIC COUNCIL

RANCHI, JHARKHAND

NATIONAL TALENT SEARCH EXAMINATION (Stage-I), 2018-19

Class X

SCHOLASTIC APTITUDE TEST

Time: 120 Minutes

Max. Marks: 100

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions. Answers are to be given on a seperate O.M.R. Answer-Sheet.

1. Please write your Roll No. very carefully (only one digit in one Box) as given on your admission card. Please see that no Box is left unfilled and even zeros appearing in the Roll No. are correctly transferred to the appropriate Box on the booklet and on the answer-sheet. For example, a student appearing from Ranchi and Roll Number 21198899999 will make entries in the boxes as under:

Roll No. 2 1 1 9 8 8 9 9 9 9 9

For all subsequent purposes your Roll No. shall remain the same as given on the admission card.

- 2. This Question Paper consists of 100 questions.
- 3. All questions carry one mark each.
- 4. A blank page has been provided for rough-work at the end of the booklet.
- 5. Remember you have to mark your answers on a separate O.M.R. Answer-Sheet as per instructions given below:
- 6. Answer to each question is to be indicated by darkening the circle by blue or black ball pen only, the number of the correct alternative in the answer-sheet from amongst the ones given for the corresponding question in the test booklet. The use of pencil is not allowed.
- 7. In case of any dispute arising out of the variation in translation, English version of the question paper will be considered as final.

N.B.: Do no write anything except the Roll Number in the Booklet.



PHYSICS

A body describes the first half of the total distance with velocity $\nu_{\scriptscriptstyle 1}$ and the second half with

1.

velocity v₂. The average velocity is :

| | (A) $\frac{v_1 + v_2}{2}$ | (B) $\frac{1}{v_1} + \frac{1}{v_2}$ |
|----|---|---|
| | (C) $\frac{v_1 v_2}{v_1 + v_2}$ | (D) $\frac{2v_1v_2}{v_1+v_2}$ |
| 2. | In a current carrying conductor the motion of e (A) accelerated (C) uniform | lectron is : (B) decelerated (D) drifting |
| 3. | Which of the following particles will experience velocity in a direction perpendicular to the mag (A) Electron (C) Helium-ion | |
| 4. | Magnetic meridian is (A) a point (B) a line along north-south (C) a horizontal plane (D) a vertical plane | |
| 5. | A rainbow is formed because of : (A) scattering (C) total internal reflection | (B) dispersion (D) none of these |
| 6. | The best quality optical fibres are made of: (A) glass fibres (C) silica-quartz fibres | (B) quartz fibres (D) costly conducting materials |
| 7. | An object is placed at a distance of 10 cm. from position and nature of the image are: (A) 3 cm. inform of the mirror, real & erect (B) 6 cm. behind the mirror, virtual & erect (C) 9 cm. inform of the mirror, real & inverted (D) 6 cm. behind the mirror, real & inverted | a convex mirror of focal length 15 cm. The |
| 8. | The Magnetic effect of current was discovered (A) Faraday (C) Joule | by – (B) Oersted (D) Ampere |
| 9. | A thin Prims P_1 with angle 4° and made from glass of refra without deviation. The angle of Prism P_2 is : | |
| | (A) 5.33° (C) 3° | (B) 4° (D) 13° |
| | | |

- 10. When a conductor of capacitance C is charged to potential V, the total amount of energy present in the field is :
 - (A) $\frac{1}{2}CV$

(B) $\frac{1}{2}C^2V$

(C) $\frac{1}{2}CV^2$

- (D) CV
- 11. Lightning conductor is provided in tall buildings:
 - (A) to light the building on festive occasions
 - (B) to make it good conducting
 - (C) to safeguard it from strong lightning
 - (D) to make it fool proof
- 12. A Volt is synonymous with:
 - (A) NC^{-1}

(B) NC

(C) JC^{-1}

- (D) *JC*
- 13. According to wave theory the reasons for the colour of light is:
 - (A) amplitude

(B) velocity

(C) frequency

(D) none of these



CHEMISTRY

| 14. | What happens when dilute Hydro (A) Hydrogen gas and iron chloride (B) Chlorine gas and iron hydroxid (C) No reaction takes place (D) Iron salt and water are produc | e are produced | | | |
|-----|---|--|--|--|--|
| 15. | One of the following is not an orga (A) Ethanoic acid | anic acid. This is (B) Formic acid | | | |
| | (C) Citric acid | (D) Carbonic acid | | | |
| 16. | The indicators which turn red in a | cid solution are : | | | |
| | (A) Turmeric and Litmus | | | | |
| | (B) Phenolphthalein and Methyl O | range | | | |
| | (C) Litmus and Methyl Orange | | | | |
| | (D) Phenolphthalein and Litmus | | | | |
| 17. | Eroch milk has a nH of 6 Whon m | ilk changes into curd. The pH value will | | | |
| 17. | riesii iiiik iias a pri oi o. Wiieii iii | (A) become 7 (B) become more than 7 | | | |
| | (C) become less than 7 | (D) remain unchanged | | | |
| | (c) become less than 7 | (b) remaindificialized | | | |
| 18. | The real bleaching agent present i | n bleaching powder is | | | |
| | (A) Oxygen | (B) Calcium | | | |
| | (C) Chlorine | (D) Sulphuric acid | | | |
| | (e) emerme | (b) ballphand dela | | | |
| 19. | An element X forms two oxides XC | O and XO ₂ . The oxide XO is neutral but XO ₂ is acidic in | | | |
| | | nature. The element X is most likely to be | | | |
| | (A) Sulphur | (B) Carbon | | | |
| | (C) Calcium | (D) Hydrogen | | | |
| | | | | | |
| 20. | Which of the following pair of rea- | ctants can undergo a displacement reaction under | | | |
| | appropriate conditions? | | | | |
| | (A) $MgSO_4 + Fe$ | (B) $ZnSO_4 + Fe$ | | | |
| | (C) $MgSO_4 + Pb$ | (D) $CuSO_4+Fe$ | | | |
| | | | | | |
| 21. | The number of protons in one ato | m of an element X is 8. What will be the number of | | | |
| | electrons in its ion X ² ? | | | | |
| | (A) 8 | (B) 9 | | | |
| | (C) 10 | (D) 11 | | | |
| | | | | | |
| 22. | The number of covalent bonds in | Pentane (C₅H₁₂) is | | | |
| | (A) 5 | (B) 12 | | | |
| | (C) 17 | (D) 16 | | | |
| | | | | | |
| 23. | 14 elements after actinium is calle | | | | |
| | (A) Lanthanide | (B) Actinide | | | |
| | (B) D-block elements | (D) P-block elements | | | |
| 24 | - 1 | | | | |
| 24. | | num number of valence electron is | | | |
| | (A) Na | (B) P | | | |
| | (C) Si | (D) A1 | | | |

- 25. A few drops of ethanoic acid were added to solid sodium carbonate. The observation made was that
 - (A) A hissing sound was produced
 - (B) Brown fumes evolved
 - (C) Brisk effervescence occurred
 - (D) A pungent smelling gas was evolved
- 26. Which of the following set of elements is written correctly in the order of their increasing metallic character?

(A) Mg, Al, Si

(B) C, D, N

(C) Na, Li, K

(D) Be, Mg, Ca



BIOLOGY

| 27. | Ovoviviparous are | |
|------------|--|---|
| | (A) Hen | (B) Snake |
| | (C) Crocodile | (D) All of these |
| | | |
| 28. | Mendel discovered | |
| | (A) Law of linkage | (B) 10% energy law |
| | (C) Laws of inheritance | (D) None of these |
| | . , | . , |
| 29. | 'AIDS' virus is called | |
| | (A) ARV | (B) HTLV |
| | (C) HIV | (D) All of these |
| | (C) THV | (b) All of these |
| 30. | Organic farming is the technique of raising cro | ons through the use of — |
| 50. | | (B) Biofertilizers |
| | (A) Manure | |
| | (C) Resistance varieties | (D) All of these |
| 24 | | |
| 31. | In simple organisms, exchange of gases and ex | |
| | (A) Osmosis | (B) Diffusion |
| | (C) Imbibition | (D) All of the above |
| | | |
| 32. | Match the items in column I and column II and | d select the correct choice : |
| | Column – I | Column – II |
| | A. Lion | P. Producer |
| | B. Cow | Q. Decomposer |
| | C. Algae | R. Primary consumer |
| | D. Micro-organism | S. Tertiary consumer |
| | | |
| 33. | When offspring is formed by single parent the | en it is called as |
| | (A) Sexual reproduction | (B) Asexual reproduction |
| | (C) Both (1) & (2) | (D) Internal fertilization |
| | (0) 20111 (2) (2) | (b) meerial ier mization |
| 34. | Which of the following is a plant hormone? | |
| J | (A) Insulin | (B) Thyroxin |
| | (C) Astrogen | (D) Cytokinin |
| | (C) Astrogen | (b) Cytokiiiii |
| 35. | Which of the following enzymes coverts prote | sins into nontonos? |
| JJ. | (A) Ptyalin | (B) Pepsin |
| | IAT PIVAIIII | (B) Peosin |
| | | · · · · · · |
| | (C) Insulin | (D) None of these |
| | (C) Insulin | · · · · · · |
| 36. | (C) Insulin Indicator of SO₂ pollution is | (D) None of these |
| 36. | (C) Insulin Indicator of SO ₂ pollution is (A) Algae | (D) None of these (B) Fungi |
| 36. | (C) Insulin Indicator of SO₂ pollution is | (D) None of these |
| | (C) Insulin Indicator of SO ₂ pollution is (A) Algae (C) Lichen | (D) None of these (B) Fungi (D) All of these |
| 36. 37. | (C) Insulin Indicator of SO₂ pollution is (A) Algae (C) Lichen The eukaryotic chromosomes are made up of | (D) None of these (B) Fungi (D) All of these |
| | (C) Insulin Indicator of SO₂ pollution is (A) Algae (C) Lichen The eukaryotic chromosomes are made up of (A) DNA | (D) None of these(B) Fungi(D) All of these(B) DNA and Lipids |
| | (C) Insulin Indicator of SO₂ pollution is (A) Algae (C) Lichen The eukaryotic chromosomes are made up of | (D) None of these (B) Fungi (D) All of these |
| | (C) Insulin Indicator of SO₂ pollution is (A) Algae (C) Lichen The eukaryotic chromosomes are made up of (A) DNA | (D) None of these(B) Fungi(D) All of these(B) DNA and Lipids |
| | (C) Insulin Indicator of SO₂ pollution is (A) Algae (C) Lichen The eukaryotic chromosomes are made up of (A) DNA (C) RNA The basis source of energy for all Organism is | (D) None of these(B) Fungi(D) All of these(B) DNA and Lipids |
| 37. | (C) Insulin Indicator of SO ₂ pollution is (A) Algae (C) Lichen The eukaryotic chromosomes are made up of (A) DNA (C) RNA | (D) None of these(B) Fungi(D) All of these(B) DNA and Lipids |

39. T-lymphocytes originate from

(A) Bone-marrow (B) Stomach (C) Thymus (D) Liver

40. What is the number of chromosomes present in human gametes?

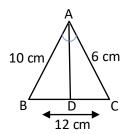
(A) 21 (B) 23 (C) 44 (D) 46



MATHEMATICS

| 41. | The sum of the five consecutive numbers is equal to 170. What is the product of the smallest numbers? | | | |
|-----|---|--|--|--|
| | (A) 1512 | (B) 1102 | | |
| | (C) 1152 | (D) 1210 | | |
| | (6, 1132 | (5) 1216 | | |
| 42. | The HCF of two numbers is 15 and their LCM is another number. | 225. If one of the numbers is 75, find the | | |
| | (A) 105 | (B) 90 | | |
| | (C) 60 | (D) 45 | | |
| 43. | The capacity of two pots are 240 litre and 112 l | itre respectively. Find the capacity of a | | |
| | container which can exactly measure the conte | | | |
| | (A) 9000cc | (B) 12000cc | | |
| | (C) 16000cc | (D) 8000cc | | |
| | (4, 1000000 | (1) | | |
| 44. | If $2^{x-1} + 2^{x+1} = 2560$, find the value of x | | | |
| | (A) 10 | (B) 12 | | |
| | (C) 9 | (D) 8 | | |
| 45. | Simplify $6 - \left[9 - \left\{18 - \left(15 - 12 - 9\right)\right\}\right]$ | | | |
| 73. | _ ` ` ` / / _ / | (D) A | | |
| | (A) 1 | (B) 4 | | |
| | (C) 5 | (D) 3 | | |
| 46. | If $a^2 + b^2 = 234$ and $ab = 108$, find the value of | + b | | |
| 40. | à | -b | | |
| | (A) 10 | (B) 8 | | |
| | (C) 5 | (D) 4 | | |
| 47. | The product of two numbers is 12960 and their | HCF is 36. Number of pairs of such numbers | | |
| | that can be formed is | | | |
| | (A) 2 | (B) 3 | | |
| | (C) 4 | (D) 5 | | |
| 48. | A man had 170 currency notes in all, some of w | hich were of Rs.100 denominations and some | | |
| | of are Rs.50 denomination. The total amount of all these currency notes was Rs. 10000. How | | | |
| | much amount did he have in the denomination | s of Rs.50. | | |
| • | (A) Rs.4000 | (B) Rs.9000 | | |
| | (C) Rs.7000 | (D) Rs.6000 | | |
| | | | | |
| 49. | The difference between the ages of Sonu and Sneha is 12 years. If the ratio of their ages is | | | |
| | 3:5 then the age of Sneha is | | | |
| | (A) 32 yrs. | (B) 24 yrs. | | |
| | (C) 28 yrs. | (D) 30 yrs. | | |
| 50. | Five ninth of 60% of a number is equal to 2790. | What is the number? | | |
| | (A) 8100 | (B) 7200 | | |
| | (C) 7300 | (D) None of these | | |
| | | | | |

51. In the given figure, AD is the bisector of $\angle BAC$. If AB = 10 cm., AC = 6 cm and BC = 12 cm., find BD.



(A) 4.5 cm

(B) 9 cm

(C) 7.5 cm

(D) 3 cm

52. The average monthly income of four earning members of a family is Rs.7350. One member passes away and the average monthly income becomes Rs.6500. What was the monthly income of the person, who is no more?

(A) Rs.6928

(B) Rs.8200

(C) Rs.9900

(D) Rs.13850

A class is divided into two sections A and B. Passing average of 20 students of section A is 80% and passing average of 30 students of section B is 70%. What is the passing average of both of the sections?

(A) 72%

(B) 74%

(C) 75%

(D) 77%

54. In the class, the number of boys and girls are in the ratio of 4 : 5. If 10 more boys join the class, the ratio of numbers of boys and girls become 6 : 5. How many girls are there in the class?

(A) 20

(B) 30

(C) 25

(D) None of these

55. The difference between the two adjacent angles of a parallelogram is 20°. What would be the ratio between the smaller and the longer angles of the parallelogram respectively.

(A) 4:5

(B) 4:7

(C) 3:5

(D) 5:6

56. A sum becomes 6 times at 5% per annum. At what rate, the sum becomes 12 times?

(A) 10%

(B) 12%

(C) 9%

(D) 11%

57. If $\sin \theta + \sin^2 \theta = 1$, then $\cos^2 \theta + \cos^4 \theta =$

(A) 1

(B) 2

(C) 0

(D) -1

58. The mean age of a combined group of men and women is 25 years. If mean age of men is 26 and that of women is 21, then the percentage of men and women in the group is

(A) 60, 40

(B) 80, 20

(C) 20, 80

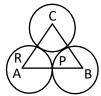
(D) 30, 70

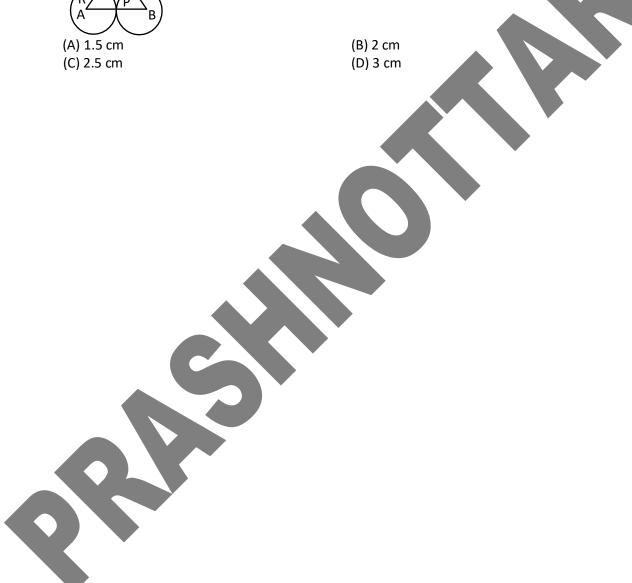
- 59. The curved surface area of a right circular cylinder of basis radius r is obtained by multiplying its volume by
 - (A) $\frac{2}{r^2}$

(B) $2r^2$

(C) $\frac{r}{r}$

- (D) 2r
- 60. In the given figure, three circles with centres A, B, C respectively touch each other externally. If AB = 5 cm, BC = 7 cm and CA = 6 cm, then the radius of the circle with centre A is





HISTORY

| 61. | Who was known as "Fuhrer"? (A) Mussolini (C) Cavour | (B) Hitler (D) Bismarck | |
|-----|--|---|--|
| 62. | Who organised the Dalits into the depressed cl (A) Mahatma Gandhi (C) Jawahar Lal Nehru | asses association? (B) Subhas Chandra Bose (D) B. R. Ambedkar | |
| 63. | The Bolshevik Revolution in Russian began on (A) 7 October, 1917 (C) 7 December, 1917 | (B) 7 November, 1917 (D) 7 March, 1918 | |
| 64. | Who created the cotton mill? (A) Richard Arkwright (C) Newcomen | (B) Williams (D) James Watt | |
| 65. | The main grievance of the peasants of the Cha (A) Abwabs and illegal cesses (C) Tinkathia System | mparan Satyagraha was about the (B) Land revenue demands (D) Exploitation by the Moneylenders | |
| 66. | Assertion (A) while joining the mainstream of the tribal communities where unmindful of the de Reason (R) Swaraj meant for both the freedom oppression of the moneylenders, zamindars and Code— (A) Both (A) and (R) are true but (R) is not the (B) Both (A) and (R) are true and (R) is the correct (C) (A) is true but (R) is false (D) (A) is false but (R) is true | mands of their situation. from British rule and freedom from the d feudal overlords. correct explanation of (A) | |
| 67. | Who was the founder of Bengal Chemicals? (A) J. C. Bose (C) M. L. Sarkar | (B) P. C. Ray (D) None of these | |
| 68. | Which of the following was not true of James Augustus Hickey? (A) He was the pioneer of Indian Journalism (B) He was the founder of the Bengal Chronicle (C) He always worked for the press freedom (D) He was sent to prison by Company Government for being feerless journalist | | |
| 69. | The first President of the Congress Socialist Par (A) Jai Prakash Narayan (C) Jawahar Lal Nehru | rty was (B) Acharya Narendra Deva (D) Sampurnand | |
| 70. | From the following newspapers with which Ga (A) Indian Opinion (C) Harijan | ndhiji was not associated? (B) Indian Mirror (D) Young India | |
| 71. | The first factory legislation was passed to impr (A) 1880 (C) 1884 | ove the working conditions of the labour in (B) 1881 (D) 1894 | |

72. Gandhiji halted the Non-Cooperation Movement after
(A) Chauri Chaura incident
(B) Kheda Satyagrah
(C) Ahmedabad mill works strike
(D) Bardoli Strike

73. Which of the following novel is not written by Munshi Premchand?

(A) Rangbhoomi

(B) Godan

(C) Sewasadan

(D) Indulekha

74. Who wrote "The Bitter Cry of Outcast London"?

(A) Durga Charan Ray(C) Andrew Mearns

(B) Charles Dickens

(D) Thomas Hardy

75. Who was the founder of the 'Hoa Hao' movement?

(A) Boi Chan

(B) Liang Qichao



GEOGRAPHY

| /6. | (A) Telangana, Gujarat and Rajasthan (C) Kerala, Goa and Rajasthan | (B) Uttar Pradesh, Bihar and West Bengal (D) Chattisgarh, Jharkhand and Nagaland |
|-----|---|--|
| 77. | Bhakra – Nangal multi-purpose river valley pı (A) Damodar | roject is situated on river: (B) Sutlej |
| | (C) Mahanadi | (D) Yamuna |
| 78. | Which pair of states is famous for the produc | |
| | (A) Maharashtra and Goa (C) Assam and Gujarat | (B) Punjab and Gujarat (D) Rajasthan and Punjab |
| | (C) Assam and Gujarat | (D) Rajastilali aliu Fulijab |
| 79. | Select the row of towns who are famous for a | atomic power plants: |
| | (A) Tarapur, Ankleshwar, Nagpur, Kaiga(B) Tarapur, Nagarjunsagar, Mathura, Meeru | |
| | (C) Tarapur, Rawatbhata, Vadodara, Narora | |
| | (D) Tarapur, Narora, Kakrapar, Kaiga | |
| | | |
| 80. | Sundarbans National Park is famous for: | |
| | (A) Elephant | (B) Wild Pigs |
| | (C) Bengal Tiger | (D) Gangetic Dolphin |
| 81. | Blue Revolution is associated with: | |
| | (A) Development of Food Crops Farming | (B) Development of Hydel Power Projects |
| | (C) River Management | (D) Development of Fisheries |
| 82. | Durgapur Steel Plant is situated in the state of | |
| οΖ. | (A) Chhattisgarh | (B) West Bengal |
| | (C) Madhya Pradesh | (D) Jharkhand |
| | | |
| 83. | Which group of ports are major ports on the | Western Coast of India? |
| | (A) Mangalore, Kochi, Tuticorin | (B) Kochi, Tuticorin, Paradeep |
| | (C) Kandala, Marmagao, Mangalore | (D) Kandala, Porbandar, Paradeep |
| 84. | The National Waterways No. 1 extends from | |
| 01. | (A) Haldia to Varanasi | (B) Haldia to Allahabad |
| | (C) Haldia to Patna | (D) Haldia to Guwahati |
| 05 | Which of the following was a way is some was | |
| 85. | Which of the following resources is very usef (A) Minerals | (B) Suitable Land for Transport |
| | (C) Forest | (D) Building |
| | (0), 0,000 | (-, - aa |
| 86. | Which of the following is the greatest and the | • |
| | (A) Minerals | (B) Land |
| | (C) Water | (D) People of the Country |
| 87. | Which of the following crops is grown by shif | fting agriculture: |
| | (A) Cotton | (B) Cereals |
| | (C) Sugarcane | (D) Tea |

88. Which are the commercial crops:

Name of crops:

(i) Groundnut (ii) Wheat (iii) Sugarcane (iv) Rice

(v) Mustard

Select the correct answer from the following options :

(A) (i), (ii) & (iii) (B) (i), (iii) & (v) (C) (i), (iii) & (iv) (D) (iii), (iv) & (v)

89. River Damodar is a tributary of River:

(A) Ganga (B) Swarnrekha (C) Barakar (D) Hooghly

90. Which cities are to be connected by Golden Quadrilateral Super Highways

Name of Cities:

(i) Delhi(ii) Mumbai(iii) Bengaluru(iv) Mysore(v) Chennai(vi) Kolkata

Select the correct answer from the following options :

 $\begin{array}{lll} \text{(A) (i), (ii), (iii) \& (iv)} & \text{(B) (ii), (iii), (iv) \& (v)} \\ \text{(C) (i), (ii), (v) \& (vi)} & \text{(D) (ii), (iii), (iv) \& (v)} \end{array}$



CIVICS

| 91. | (A) Kofi Annan (C) Ban Ki-Moon | (B) Antonio Guterres (D) None |
|------|---|--|
| 92. | The Chief Justice of Supreme Court of India is – (A) Deepak Mishra (C) Ranjan Gogoi | (B) T. S. Thakur (D) Jagdish Singh Khehar |
| 93. | Which of the following Countries has adopted t (A) India (C) China | he One Party System? (B) USA (D) Japan |
| 94. | What is the full name of UPA? (A) United Party Alliance (C) United Progressive Alliance | (B) United People's Alliance (D) United Progressive Axis |
| 95. | Which constitutional amendment granted reser (A) 42nd (C) 65th | rvation to women in Panchayats? (B) 44th (D) 73rd |
| 96. | Due to Inflation, Market items (A) gets cheaper (C) Price remains the same | (B) gets expensive (D) None of these |
| 97. | The Reserve Bank of India was nationalised in : (A) 1945 (C) 1949 | (B) 1947 (D) 1950 |
| 98. | When the New Economic Policy came into force (A) 1990 (C) 1993 | e in India? (B) 1991 (D) 1994 |
| 99. | Who wrote the book "Wealth of Nations"? (A) Marshall (C) Adam Smith | (B) Piggu (D) Kinns |
| 100. | The main feature of the New Economic Policy of (A) Liberalisation (C) Privatisation | of India- (B) Globalisation (D) All of them |
| | | |

ANSWER KEY

| QUESTION NO. | ANSWER | QUESTION NO. | ANSWER | |
|--------------|---|--------------|------------|--|
| 1 | (D) | 51 | (C) | |
| 2 | (D) | 52 | (C) | |
| 3 | (D) | 53 | (B) | |
| 4 | (C) | 54 | (C) | |
| 5 | (B) | 55 | (A) | |
| 6 | (C) | 56 | (D) | |
| 7 | (B) | 57 | (A) | |
| 8 | (B) | 58 | (C) | |
| 9 | (B) | 59 | (C) | |
| 10 | (C) | 60 | (B) | |
| 11 | (C) | 61 | (B) | |
| 12 | (C) | 62 | (D) | |
| 13 | (C) | 63 | (B) | |
| 14 | (A) | 64 | (A) | |
| 15 | (D) | 65 | (C) | |
| 16 | (D) | 66 | (D) | |
| 17 | (C) | 67 | (B) | |
| 18 | (C) | 68 | (B) | |
| 19 | (B) | 69 | (A) | |
| 20 | (D) | 70 | (B) | |
| 21 | (C) | 71 | | |
| 22 | | 72 | (B) (A) | |
| 23 | (D) | 73 | | |
| | (B) | 74 | (D) | |
| 24 | (B) | | (C) | |
| 25 | (C) | 75 | (C) | |
| 26 | (D) | 76 | (B) | |
| 27 | (B) | 77 | (B) | |
| 28 | (C) | 78 79 | (C) | |
| 29 | (C) | | (D) | |
| 30 | (D) | 80 | (C) | |
| 31 | (B) | 81 | (D) | |
| 32 | $A \rightarrow S; B \rightarrow R; C \rightarrow P;$ $D \rightarrow Q$ | 82 | (B) | |
| 33 | (B) | 83 | (C) | |
| 34 | (D) | 84 | (B) | |
| 35 | (B) | 85 | (C) | |
| 36 | (C) | 86 | (D) | |
| 37 | (D) | 87 | (B) | |
| 38 | (D) | 88 | (B) | |
| 39 | (C) | 89 | (D) | |
| 40 | (B) | 90 | (C) | |
| 41 | (C) | 91 | (B) | |
| 42 | (D) | 92 | (C) | |
| 43 | (C) | 93 | (C) | |
| 44 | (A) | 94 | (C) | |
| 45 | | 95 | (C) (D) | |
| 45 | (D) | 96 | (B) | |
| | (C) | | | |
| 47 | (A) | 97 | (C) | |
| 48 | (C) | 98 | (B) | |
| 49 | (D) | 99 | (C) | |
| 50 | (D) | 100 | (D) | |