SAMPLE PAPER-1
UNDERGRADUATE PROGRAMME IN FASHION TECHNOLOGY
I PAPER - GENERAL ABILITY TEST

Time Allowed: 2 Hours **Max. Marks: 100**
Total Questions: 100

This test comprises of the following sub-tests.
(1) Quantitative Ability
(2) Communication Ability
(3) English Comprehension
(4) Analytical Ability
(5) General Science. Physics & Chemistry
(6) Thematic Apperception Test
   (i) Each question carries one mark.
   (ii) Answers are required to be marked only on the OMR/ICR Answer-sheet, which will be provided separately.
   (iii) For each question, four alternative answers have been provided out of which only one is correct. Darken the appropriate circle in the Answer-sheet by using Ball pen only on the best alternative amongst (a), (b), (c) or (d).

1. Four girls P, Q, R and S divide a bag of sweets. P takes 2/3 of them, Q takes 1/5th of the remainder and the rest is equally shared between R and S. What fraction of the sweets did R and S get?
   (a) 2 (b) 2/15 (c) 15/2 (d) 15
2. Area of a triangle with vertices (0,0) ,(0,3) and (3,1) is
   (a) 9.0 sq units (b) 4.0 sq units (c) 4.5 sq units (d) 3.0 sq units
3. The centre of the circle $x^2 + y^2 - 10x + 2y + 26 = 0$
   (a) (-5, 1) (b) (5, -1) (c) (5, 1) (d) (-5, -1)
4. A row matrix contains
   (a) only two rows (b) only one column (c) only one row (d) no row
5. The least number of five digits, which is exactly divisible by 12,15 and 18 is
   (a) 10080 (b) 10020 (c) 11240 (d) 11010
6. The length of an arc which subtends an angle of 2 radians at the centre is
   (a) r (b) r/3 (c) r/2 (d) 2r
7. 3268.7 + 326.87 + 32.687 + 3.2687 =?
   (a) 3658.3127 (b) 36583.127 (c) 365.82573 (d) 3631.5257
8. $\log_{10} 2 = 0.3010, \log_{10} 3 = 0.4771, \log_{10} 1.5 is$
   (a) 0.7161 (b) 0.7116 (c) 0.7611 (d) 0.1761
9. What is the maximum number of glass tumblers each with a circumference of 4π inches that can be placed rectangular on a table of 48" x 32".
   (a) 48 (b) 32 (c) 50 (d) 96
10. $x\sqrt{0.09} = 3; x = ?$
   (a) 10 (b) 30 (c) 3 (d) 9
11. Solve 64-28(8-9)-39 = x.
   (a) -3 (b) 0 (c) 29 (d) 53
12. The length and breadth of a rectangle is increased by 20% and 25% respectively so that both length and breadth become same. The increase in area of the resulting square is,
   (a) 40% (b) 20% (c) 50% (d) 25%
13. The salaries of A, B & C are in the ratio of 1:2:3. The salary of B&C together is Rs. 12,000. By what percent is salary of C more than that of A?
   (a) 100% (b) 150% (c) 200% (d) 250%
14. 'A' can do a piece of work in 45 days, while 'B' alone can do it in 30 days. In how many days can 'A' and 'B' working together do it?
   (a) 15 days (b) 18 days (c) 21 days (d) None of them
15. One side of a rectangle is x inches. The perimeter is p inches, what is the length (in inches) of the other side
   (a) $\frac{p}{2}$ (b) $\frac{p-2x}{2}$ (c) p-x (d) $\frac{p}{2} - 2x$

16. If $(l \times m \times n) = \sqrt{\frac{(l+2)(m+3)}{(n+2)}}$, the value of $(16 \times 13 \times 6)$ is,

(a) 6 (b) 8 (c) 4 (d) 2

17. The sum of two numbers is thrice their difference. If one of the number is 8, then the other number is,

(a) 12 (b) 14 (c) 16 (d) 18

18. If $2^{x-1} + 2^{x+1} = 320$, then x =

(a) 5 (b) 6 (c) 7 (d) 8

19. If 15% of 40 is greater than 25% of a number by 2, the number is,

(a) 16 (b) 20 (c) 24 (d) 28

20. A shopkeeper was having his shop painted. He was advised that he would require 25 kg of paint. Allowing for 15% wastage and assuming that the paint is available in 2 kg cans. What would be the cost of paint purchased, if one can cost is Rs. 16?

(a) Rs. 160 (b) Rs. 200 (c) Rs. 240 (d) Rs. 280

21. The value of $\frac{(0.0247)^3 + (0.8653)^3}{(0.0247)^2 - 0.0247 \times 0.8653 + (0.8653)^2}$ is:

(a) 1.00 (b) 0.89 (c) 0.79 (d) 0.69

22. Four girls P, O, R and S divide a bag of sweets. P takes 2/3 of them, Q $1/5^{th}$ of the remainder and the rest is equally shared between R and S. what fraction of the sweets did R or S get?

(a) 2 (b) 2/15 (c) 15/2 (d) 15

23. One fourth of one third of two fifth of a number is 15. What will be 60% of that number?

(a) 190 (b) 170 (c) 270 (d) 230

24. $\left[\frac{1}{512}\right]^{\frac{-2}{3}} \div \left[\frac{1}{64}\right]^{\frac{-4}{3}} = ?$

(a) 1 (b) 1/4 (c) 4 (d) 1/6

25. If the price of milk is increased by 30%, find by how much percent must a householder reduce her consumption of milk so as not to increase the expenditure?

(a) 24% (b) 25% (c) 23.07% (d) 26%

Direction (Q. Nos. 26-28) : In these questions, choose the alternative which is same in meaning to the keyword.

26. ADVERSARY

(a) opponent (b) colleague (c) friend (d) comrade

27. AFICIONADO

(a) ruffian (b) beautiful (c) lover of an art/fan (d) attractive

28. BAUBLE

(a) toy (b) ornament (c) bubble (d) instrument

Direction (Q. Nos. 29-31): In these questions, choose the alternative which is opposite in meaning to the keyword.

29. VORACIOUS

(a) hungry (b) content (c) insatiable (d) ravenous

30. ZENITH

(a) top (b) peak (c) elevation (d) bottom

31. MALICIOUS

(a) spiteful (b) hateful (c) reckless (d) kind

Direction (Q. Nos. 32-34): Choose the exact meaning of the idioms/phrases from the given alternatives.

32. A sight for sore eyes

(a) someone you are happy to see (b) someone you are unhappy to see
(c) a ghastly sight (d) sore eye sight

33. A poker face

(a) a beautiful face (b) sad face (c) showing no emotion (d) funny facial expression

34. An axe to grind

(a) grinding an axe (b) a point to discuss or argue about
(c) a lecture, a scolding (d) a bawling out

Direction (Q. Nos. 35-37): Fill in the blank space of the sentence so that it becomes meaningful and correct.

35. The professor can sit on the desk, but you can sit _____.

(a) before the desk (b) in front of the desk

(c)both (a) & (b) are correct (d) none of these

36. Everyone in the class _____.
(a) except me got the answer (b) me got the answer
(c) except myself got the answer (d) none of the above

37. Based on shaky historical precedent, the rule itself ____.
(a) a latecomer to the rules of writing (b) is a latecomer to the rules of writing
(c) would a latecomer to the rules of writing (d) none of these

Direction (Q. Nos. 38-40): Choose the most appropriate word to fill the blank space in these sentences.

38. It … a pleasant surprise to seeing him.
(a) was (b) is (c) would (d) none of these

39. One must know … roots and never forget them
(a) about his (b) his (c) one's (d) none

40. Shyam jumped….. the cliff , but still survived with minor injuries.
(a) from (b) off (c) in (d) none

Direction (Q. Nos. 41-45) : Read the passage carefully and answer the questions based on it.

PASSAGE

A certain hare, who was very proud of his speed as a runner, once laughed at a tortoise that crept slowly on the ground. "You slow, old creature." He cried, "Can't you go any faster than that"? "I may be slow" said the tortoise, "but I could beat you in a race". They deiced to run for half a mile. Off went the hare in quick leaps and bounds while the tortoise plodded along, never stopping, never looking back. Soon the swift hare outran the tortoise to such a length that he made a jest of the matter. "Ha, ha," laughed the hare, as he stepped half-way to look back at the slow tortoise. Then the hare thought, "there is no need for me to run so fast. I will lie down and rest." So the hare lay down under a tree and soon fell fast asleep. He did not hear the little feet of the tortoise come creep-creep-creeping up the place where he lay. And right past the sleeping hare went the tortoise, slowly and steadily, never once looking behind him. Presently, the hare awoke and started racing towards the winning post like a streak of lightning. "Here I am," cried a little voice from the end of the wood, 'I'm at the winning – post and have been sitting here waiting for you for some time." The hare was ashamed of himself; for had be not been beaten by the tortoise at whose slow pace he had laughed?

41. The hare was ashamed of himself because he
(a) laughed at the tortoise (b) underestimated the tortoise as a runner
(c) was defeated by the tortoise who could never run as fast as he (d) none of the above

42. Ultimately, the tortoise won the race because of its,
(a) style of running (b) being speedier than the hare
(c) being older than the hare (d) steadiness and hare's pride

43. The tortoise neither stopped nor looked back while the race was on because
(a) he wanted to win the race (b) it was the rule of the race
(c) he was afraid of the hare (d) none of the above

44. The hare laughed at the tortoise because the tortoise
(a) was lazy (b) was slow runner (c) was an old creature (d) none of the above

45. The hare lay under the tree because
(a) he was tired (b) he was ahead of tortoise
(c) he was sure of winning the race (d) none of the above

Direction (Q. Nos. 46-50): Read the passage given below and answer the questions that follow by choosing the correct option.

PASSAGE

Lizard island is only 30 KM off the far north Queensland coast and 250 KM north of Cairns, the most northerly city in Northeastern Australia. The 1,012 hectare island is spectacularly rugged with vegetation ranging from grassland to rainforest and encompassing pandanus swamp, eucalypt woodland and mangroves. The most recent discoverers of this island were Sir Sydney Williams and another north Queensland businessman., Mr. John Wilson, now a Brisbane share broker. For several years from 1968, they camped on Lizard island for annual fishing holidays and in 1974 after obtaining it Queensland Government lease with other businessmen, built four cabins for guests. In the next step of development in 1978, they raised the number of bungalows to eight, then to fifteen in 1982 and in 1984 ultimately the complex was bought by the Queensland State Government Insurance Office.

The island is consistently visited by those who seem to be quite careful about their health. Each has all the facilities expected in such an elegant resort including well – stocked mini bar. It is because of this that Australian Prime Ministers for the decade or so have taken heed, as they constantly retreat to this island to rest, relax and lick the wounds of office. Since this island attracts people from all over the world, most of the time it remains packed. One of the island resort's founders, Queensland aviation pioneer, Sir Sydney Williams, affirms that a sturdy Arab Sheikh once cam ashore from a chartered luxury yacht and tried to book a suite for the night. When told the place was full he hastily produced a cheque book and offered to buy it.

46. Who amongst the following discovered the lizard island?
(a) John Wilson and a Brisbane share broker
(b) Sidney Williams and a Queensland aviation pioneer
(c) North Queensland business man
(d) Brisbane share broker and a Queensland aviation pioneer

47. Which of the following reasons prompted the Arab Sheikh to buy the island?
(a) he is impressed by the beauty of the island (b) he wanted to stay there for a night
(c) he felt offended due to refusal of accommodation (d) none of the above

48. Which of the following is not true in the context of the passage?
(a) In the first step of development eight bungalows were developed
(b) Lizard island has become a busy island
(c) Lizard island is full of greenery (d) None of the above

49. What were the first and the foremost thing that struck to the discoveries for the development of the island?
(a) to build four cabins for guest (b) to associate government officers
(c) to give a decorative look by growing vegetation (d) none of the above

50. The Lizard island is situated nearest from
(a) North America (b) South America (c) Cairns (d) North Queensland

Direction (Q. Nos. 51-55): Read the following information carefully and answer the questions below it.
Expenditure on Agriculture from different sources of five different States in India during a certain period

States	Government	Local	Endowments	Subsidy	Others	Total
Maharashtra	198	58	80	224	70	630
Uttar Pradesh	420	98	124	158	110	910
Andhra Pradesh	550	70	150	110	80	960
Tamil Nadu	725	234	221	170	100	1450
Punjab	600	160	130	100	210	1200

51. Which State has maximum subsidy percent on agriculture?
(a) Maharashtra (b) U.P. (c) Andhra Pradesh (d) Tamil Nadu

52. The item on which exactly 50% of the total depends for two States is
(a) Local funds (b) Endowments (c) subsidy (d) Government funds

53. The number of sources covering less than 25% of the total in Andhra Pradesh is:
(a) one (b) two (c) five (d) four

54. Number of occasions in which any source is more than 10% of the overall total is:
(a) two (b) three (c) four (d) only once

55. By what percentage is the source of 'others' contribute to the overall total of all states?
(a) 8 (b) 9 (c) 11 (d) 13

Direction for Question Nos. 56-60. Answer the questions based on the information given below.
(1) D is a doctor. (2) The blue house belongs to the engineer.
(3) B stays in the green house. (4) There is one engineer and one teacher among A and E.
(5) E does not stay either in the blue house or the yellow house.
(6) The actor and the teacher stay in the green house and brown house not necessarily in that order.

56. Who stays in the white house ?
(a) The Lawyer (b) The Doctor (c) A (d) E

57. Where does the doctor stay ?
(a) blue house (b) yellow house (c) green house (d) white house

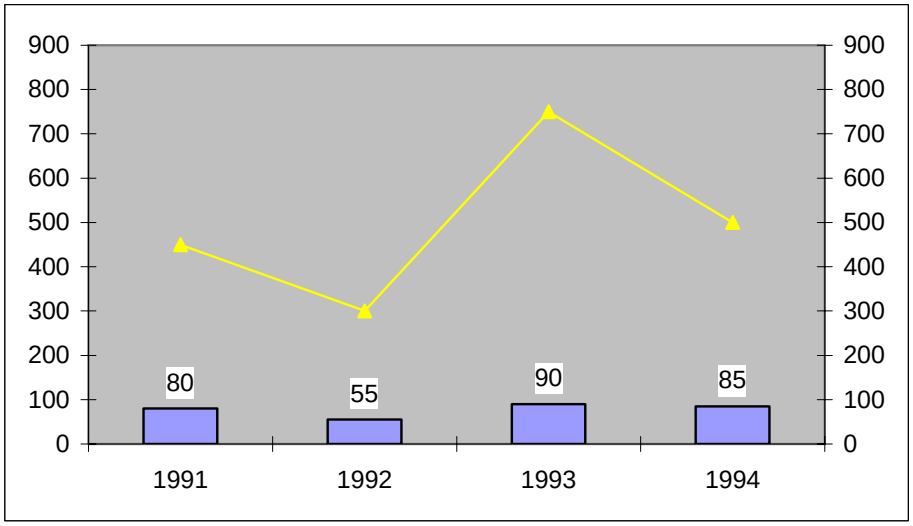
58. Where does E stay?
(a) White house (b) Blue house (c) Brown house (d) Can't say

59. Who is the lawyer ?

(a) A (b) C (c) D (d) B

60. Where does A stay?
(a) Blue house (b) white house (c) green house (d) yellow house

Directions: (Q 61-65): Answer the questions based on the following chart.



61. The value per kg of rice exported was maximum in the year:
(a) 1991 (b) 1992 (c) 1993 (d) 1994

62. The value of rice exported during the first three years, as compared to the export of rice during the last three years is
(a) Rs. 25 crores more (b) Rs. 60 crores more (c) Rs.35 crores more (d) Rs. 50 crores more

63. What is the growth rate of the value per kg of rice exports from 1992 to 1993?
(a) 60% (b) 52.84% (c) 80% (d) 73%

64. The average quantity of rice exported per year during this period is ___ in lakh tones.
(a) 67.5 (b) 79.4 (c) 77.5 (d) 57

65. If the value of rice exports in 1995 is obtained by following the same straight line from 1993 to 1994, what is the value of rice exports in 1995 (in Rs. Crores)
(a) 250 (b) 300 (c) 200 (d) 350

Direction (Q. Nos. 66-70): A company has six workers of different efficiencies. The workers are A, B, C, D, E and F.

I. C is four times as efficient as A
II. B is 1/3 times as efficient as C
III. D is 4/5 times as efficient as A
IV. E is 5/2 times as efficient as D
V. F is 6/5 times as efficient as B

66. Who among the following will take minimum days/time to finish an entrusted job, while working alone?
(a) B (b) C (c) E (d) F

67. Who among the following will take maximum days/time to finish an entrusted job, while working alone?
(a) A (b) B (c) D (d) F

68. Which of the following represents the descending order of efficiency of workers?
(a) C,E,F,B,A,D (b) D,A,B,F,C,E (c) D,A,B,F,E,C (d) None of the above

69. Combined efficiency of which of the following pairs is maximum?
(a) C,E (b) E,F (c) C,F (d) E,B

70. Combined efficiency of which of the following group is the least?
(a) C,E,F (b) E,F,B (c) B,A,D (d) F,B,A

71. When the speed of a body is doubled, its kinetic energy becomes
(a) double (b) half (c) four times (d) one-fourth

72. The sum of the kinetic and potential energies of a freely falling body is
(a) constant at all points (b) maximum in the beginning
(c) minimum in the beginning (d) maximum in the middle of the path

73. The force required to produce an acceleration of 5 m/s^2 in an object of mass 2 kg is
(a) 2.5 N (b) 10.0 N (c) 0.4 N (d) 7.0 N

74. A person is standing on a weighing scale in a lift. If the cable of the lift breaks and it starts falling freely, the scale will be showing
(a) actual weight (b) increase weight (c) decrease in weight (d) zero

75. The period of oscillation of a pendulum of constant length at the earth's surface is T. Its period inside a mine would be
(a) greater than T (b) less than T (c) equal to T (d) cannot be compared

76. If the radius of the earth were to shrink by 1%, its mass remaining the same, the acceleration due to gravity on the earth's surface would
(a) decrease (b) increase (c) remain unchanged (d) zero

77. The weight of a person can be zero when
(a) he is falling freely (b) he is orbiting in a satellite
(c) he is in an aero plane flying at a high altitude (d) he is in a lift moving upwards with constant speed

78 Which is a case of unstable equilibrium?
(a) a football lying on the ground (b) a man sleeping on the floor
(c) a man standing on one leg (d) None of the above

79 When a spring of time clock is wound it will posses
(a) potential energy (b) momentum (c) kinetic energy (d) chemical energy

80. The intensity of the gravitational field inside a hollow spherical shell is
(a) zero (b) maximum (c) minimum (d) variable

81. A body is thrown vertically upwards from the ground with a speed of 980 cm/sec. it will rise to a height of
(a) 49 cm (b) 490 cm (c) 4900 cm (d) 9800 cm

82. The centre of gravity of a rectangle is
(a) at one of its vertices (b) at the point of intersection of the diagonals
(c) at any point inside it (d) none of the above

83. The value of 'g' at higher altitudes
(a) increases (b) decreases (c) remains constant (d) keeps fluctuating

84. The amount of heat absorbed or given out depends on
(a) mass of the body (b) change of temperature (c) nature of the substance (d) all of the above

85. Which of the following are physical changes?
(1)Rusting of iron (2) Burning of candle
(3) Heating of iron to red hot (4) Heating of zinc oxide
Select the correct answer from the codes given below:
(a) 1 and 2 (b) 1 and 4 (c) 2 and 3 (d) 3 and 4

86. Which of the following represents a chemical change?
(a) evaporation of water (b) sublimation of iodine
(c) burning of a magnetism ribbon (d) dissolving sugar in water

87. Which of the following is not a physical property?
(a) melting point (b) boiling point (c) ignition point (d) freezing point

88. Heating a substance results in a
(a) chemical change only (b) physical change only
(c) either a physical change or chemical change
(d) neither a physical change nor a chemical change

89. Which is not a mixture?
(a) milk (b) aspirin (c) chromatography (d) sublimation

90. Which of the following statements is true?
(a) a compound is generally homogeneous (b) a mixture is generally homogeneous
(c) a compound is always homogeneous (d) a mixture is always homogeneous

91. Marble is an example of a/an
(a) compound (b) mixture (c) element (d) none of these

92. The term binomial nomenclature refers to the
(a) naming of plants and animals consisting of two Latin names
(b) biological process consisting of two stages
(c) naming of plants only (d) naming of lower animals and plants

93. A living body has
(a) definite size and definite form (b) definite form but no definite size
(c) definite size and no definite form (d) none of the above

94. All the living beings
(a) live forever (b) always die (c) show the capacity of regeneration and a few die
(d) die but a few lower animals show the capacity of regeneration

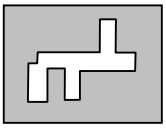
95. Non-living things may show
(a) growth (b) reproduction (c) irritability (d) none of these

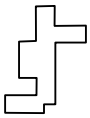
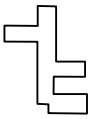
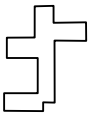
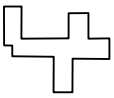
96. The largest planet in the solar system is
(a) Jupiter (b) Earth (c) Venus (d) Pluto

97. A comet moves around the
(a) sun (b) moon (c) earth (d) planets

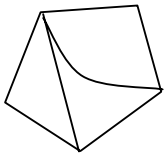
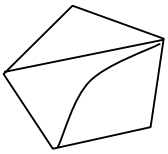
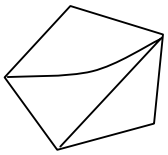
98. Pulsars are
(a) long-haired stars (b) swarms of tiny planets
(c) fast rotting neutron stars (d) contracted stars

99. Which of the following shapes fits into the puzzle?



(a)  (b)  (c)  (d) 

100. Which is the odd one out?

(a)  (b)  (c)  (d)