UNDER GRADUATE PROGRAMME IN FASHION TECHNOLOGY
I PAPER - GENERAL ABILITY TEST

Time Allowed: 2 Hours　　　　　　　　　　　　　　　　　　　　　　　　　**Max. Marks: 100**
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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.　　The sum of two numbers is 200. If one third of the one exceeds one seventh of another by 10, the smaller number is:
　　(a) 65　　　　　　　(b) 81　　　　　　　(c) 73　　　　　　　(d) 87

2.　　Arrange the functions $\frac{5}{9}$, $\frac{6}{13}$, $\frac{12}{13}$, $\frac{14}{23}$ and $\frac{2}{3}$ in ascending order of magnitude.

　　(a) $\frac{6}{13} < \frac{5}{9} < \frac{14}{23} < \frac{2}{3} < \frac{12}{13}$　　　　　(b) $\frac{5}{9} < \frac{14}{23} < \frac{12}{13} < \frac{2}{3} < \frac{6}{13}$

　　(c) $\frac{2}{3} < \frac{6}{13} < \frac{12}{13} < \frac{14}{23} < \frac{5}{9}$　　　　　(d) $\frac{5}{9} < \frac{6}{13} < \frac{12}{13} < \frac{14}{23} < \frac{2}{3}$

3.　　1 litre of water weighs 1 kg. How many cubic milliliters of water will weigh 0.1 gm.
　　(a) 0.1　　　　　　　(b) 1　　　　　　　(c) 10　　　　　　　(d) 100

4.　　The number of wooden cubes with an edge of 20 cm each that can be cut off from a cube whose edge is 2 m is:
　　(a) 100　　　　　　　(b) 1000　　　　　　　(c) 10000　　　　　　　(d) 100000

5.　　A parallelogram has sides 25 cm and 15 cm and one of its diagonals is 46m long. Then, its area is:
　　(a) 255　　　　　　　(b) 425　　　　　　　(c) 510　　　　　　　(d) 728

6.　　S.I. on a certain sum is 16/25 of the sum. Find the percent rate and time, when both are numerically equal.
　　(a) 6%, 6 years　　　(b) 8% , 8 years　　　(c) 2% , 2 years　　　(d) 4% , 4 years

7.　　$\frac{1}{1/n} \div \frac{1}{n} =$

　　(a) $\frac{1}{n}$　　　　　　　(b) n　　　　　　　(c) 1+ n　　　　　　　(d) n^2

8.　　Santhosh's height is 25% less than Surendra's. How much is Surendra's height more than Santhosh's?
　　(a) 33.37%　　　　　(b) 30%　　　　　　　(c) 32%　　　　　　　(d) 35%

9.　　Evaluate $\sqrt{\frac{0.64 \times 0.09 \times 0.16}{0.81 \times 0.25 \times 0.64}} = ?$
　　(a) 0.55　　　　　　　(b) 0.12　　　　　　　(c) 0.8　　　　　　　(d) 0.24

10.　　The greatest number of four digits which is a perfect square is
　　(a) 9801　　　　　　(b) 9810　　　　　　　(c) 9081　　　　　　　(d) 9800

11.　　6 persons went to a hotel for taking their breakfast. 5 of them spent Rs.10 each on their meals and the 6th spend Rs.5 more than the average expenditure of all the six. What was the total money spent by them?
　　(a) Rs. 84　　　　　　(b) Rs. 56　　　　　　(c) Rs. 30　　　　　　(d) Rs. 66

12.　　If $\sqrt[3]{16} = 2^x$, then x is equal to
　　(a) 4　　　　　　　　(b) 3　　　　　　　　(c) 1.33　　　　　　　(d) 0.75

13.　　Divide Rs.1612 among P, Q, and R in the ratio 32:24:22. R's share is

(a) Rs.525   (b) Rs.455   (c) Rs.500   (d) Rs. 600

14.   If a box containing a dozen eggs is dropped, which of the following cannot be the ratio of broken eggs to unbroken eggs?

    (a) 2:1   (b) 7:5   (c) 3:1   (d) 3:2

15   Sujan received Rs. 6000 as his share out of the total project of Rs.9000 which he and Ashok earned at the end of one year. If Sujan invested Rs.20,000 for 6 months, when Ashok invested his amount for the whole year, what was the amount invested by Ashok?

    (a) 5000   (b) 6000   (c) 7000   (d) 8000

16.   The height of a pole which is viewed from a distance of 3m from its foot , with an angle of elevation 30^0 is

    (a) $\sqrt{3}m$ (b) 3m   (c) $\dfrac{1}{\sqrt{3}}m$ (d) $3\sqrt{3}m$

17.   M can do a certain job in 14 days. N is 40% more efficient than M. The number of days, it takes N to do the same piece of work, is:

    (a) 9 days   (b) 10 days   (c) 8 days   (d) 7 days

18.   A man can row 10 kmph in still water and the river is running at 2 kmph. If the man takes 1 hour to row to a place and back, how far is the place?

    (a) 8.4 km   (b) 4.0 km   (c) 3.6 km   (d) 4.8 Km

19.   Number of circles that can pass through 3 non-collinear points.

    (a) only one   (b) two   (c) three   (d) none

20.   A mixture of 30 Kg of spirit and water contains 10% of water. How much water must be added to this mixture to raise the percentage of water to 25%?

    (a) 5 Kg   (b) 6 Kg   (c) 7 Kg   (d) 4 Kg

21. $A = \{1,2,3\}B = \{3,4,5\}, A - B =$

    (a) $\{1,2,3\}$ (b) Φ (c) $\{1,2\}$ (d) $\{3,4,5\}$

22.   Find compound interest on Rs. 6000 at 12% per annum for 1 year, compounded half yearly.

    (a) Rs. 650/-   (b) Rs. 700/-   (c) Rs. 600/-   (d) Rs. 741/-

23.   A pipe can fill a tank in 18 hours. Due to a leak in the bottom, it is filled in 26 hours. If the tank is full, how much time will the leak take to empty it?

    (a) 72 hours   (b) 7.2 hours   (c) 76 hours   (d) 68 hours

24.   How many times are the hands of a clock at right angles in a day?

    (a) 24   (b) 12   (c) 44   (d) 22

25.   A wheel makes 1000 revolutions in covering a distance of 88km. The radius of the wheel is

    (a) 12m (b) 7m   (c) 14m (d) 10m

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

26.   BASTE

    (a) attack   (b) bake   (c) stitch   (d) scrub

27.   GRIPE

    (a) complaint   (b) ripe   (c) seize   (d) smile

28.   INGENUOUS

    (a) intelligent   (b) stupid   (c) straightforward   (d) genius

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

29.   OBNOXIOUS

    (a) objectionable   (b) annoying   (c) agreeable   (d) vague

30.   MOLEST

    (a) irritate   (b) trouble   (c) disturb   (d) soothe

31.   LUSCIOUS

    (a) delicious   (b) sensational   (c) bright   (d) tasteless

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

32.   cat gets one's tongue

    (a) tongue is caught in a cat's mouth   (b) cat eats somebody's tongue

    (c) tongue tied /feeling shy   (d) none of the above

33.   weather the storm

    (a) weather of the storm   (b) bad weather of storm

    (c) survive a crisis   (d) get stuck in a storm

34.   when push comes to shove
        (a) when one is shoving and pushing   (b) pushing aggravating to shoving (fight begins)
        (c) a man who can push comes to shove   (d) none of these

Direction (Q. Nos. 35-37): Fill in the blank space of the sentence so that it becomes meaningful and correct.
35.   You may have learned that ending a sentence with a preposition ..
        (a) is a serious breach of grammatical etiquette   (b) would be grammatical offence
        (c) is bad grammar   (d) none of these
36.   The way I look at it…
        (a) it looks crooked   (b) it looks crooked   (c) is wrong   (d) both (a) &(c) correct
37.   As per karma siddantha, one must perform
        (a) ones task diligently and bear the fruit of success   (b) the task diligently to bear the fruit of success
        (c) his task diligently and bear the fruit of success   (d) both (a) & (b)

Direction (Q. Nos. 38-40) : Choose the most appropriate preposition to fill the blank space in these sentences.
38.   To stay indoor's all … the time makes people claustrophobic
        (a) of   (b) off   (c) if   (d) none of these
39.   Come over to my place and we can have dinner …..
        (a) together   (b) to gather   (c) combinedly   (d) jointly
40.   Deepavali is fun, ….. care is not taken, it can turn out to be a dangerous festival.
        a) if   (b) when   (c) but   (d) simple

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

PASSAGE

For the opponents of the Tehri dam project, the battle is well and truly lost, Several committees have indicated the project as a safety hazard in a highly seismic region-yet the first phase of the dam is fast nearing completion. Chipko leader Sunderlal Bahuguna's marathon fasts opposing dam construction are history. The jhuggi he occupied on the bank of Bhagirathi river during his protests is on the verge of submergence.

        The town of Tehri, along with 22 surrounding villages, will be submerged by the reservoir of the dam when both phases are complete: another 74 villages will be partly hit. 13 more villages have been acquired by Tehri Hydro Development Corporation (THDC) to build the new district headquarters – new Tehri town-and the project colony around it. In all 14,581 families-over 67000 people-are being displaced. The deadline for completion of both phases was set for June 2002, though unofficially THDC employees admitted that it may take another three years.

41.   The Battle' referred to in the first sentence of the passage is being fought between?
        (a) Pro-development and anti-development people   (b) Pro-tribals and anti-tribals people
        (c) Pro-dam and anti-dam people   (d) Pro-farmers and anti-farmers people
42.   According to the passage, the dam is being opposed on which of the following grounds?
        I.   The dam is being built in an earthquake prone area
        II.   The lack of adequate rehabilitation of the displaced
        III.   The submergence of scores of villages
        (a) Only I   (b) Only I and II   (c) Only II and III   (d) Only III
43.   According to the passage, Sunderlal Bahuguna is a (an)
        (a) environmental activist (b) social activist   (c) either (a) or (b)   (d) both (a) and (b)
44.   The 'reservoir' used in the passage indicates?
        (a) a supply of water   (b) spill over of water   (c) banks of river (d) storehouse of water
45.   Which of the following sentence seems to be out of place in the passage?
        (a) The first sentence of the first paragraph   (b) The last sentence of the first paragraph
        (c) The first sentence of the second paragraph   (d) The last sentence of the second paragraph

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

PASSAGE

        A customer went to a photo studio to have his photo taken. The photographer was a man of strange behavior. He was a drooping man in a grey suit looking like a natural scientist with a dim eye. His odd and unusual appearance itself would provoke laughter. It was a pity that the photographer did not receive the customer properly. He made him wait for an hour. After that, the photographer made the customer to sit in a

beam of sunlight in the inner room. The photographer rolled a machine into the middle of the room and crawled into it twice. The second time he drew a little black cloth over himself. But the photograph was not taken. Moreover, he showed signs of disapproval. The customer had to wait patiently for a snap.

To the customer's astonishment the photographer commented on his face, head and ears. He simply said that he would not like them. The customer could not bear these unpleasant words. As he started to rise from his seat the photographer pulled a string. The photograph was taken at last. The photographer asked the customer to come on Saturday to have a look at his proof.

The author went to the studio on Saturday. On seeing the proof he felt stunned. It was, in no way, a resemblance to his actual features. Though he spoiled the photograph, the photographer posed himself as a talented photographer. He also said that he had to do more adjustments in the print. The customer, unable to do anything burst into tears. Though the photographer had made a fuss the helpless customer saw the horror and experienced the pity.

46. The appearance of the photographer not as per the passage is:
    (a) very pityful   (b) had a strange behaviour
    (c) odd and unusual   (d) natural scientist with a dim eye
47. What did the photographer do with the machine?
    (a) Exposed it to a beam of light   (b) Drew a black little cloth over it
    (c) Rolled and crawled it   (d) none of these
48. The comment on the customer's face is:
    (a) not a resemblance of usual features   (b) it was not simply liked
    (c) horror and pityful   (d) eyes were full of tears
49. When did the customer actually come to the photo studio?
    (a) On Saturday   (b) on Friday   (c) two days before the print   (d) none of these
50. The experiences of the customer in a single word as in the passage is:
    (a) Unpleasant   (b) Pityful   (c) Angry   (d) Stunning

Direction: Based on the information given below answer Question Nos. **51-54**.
Each problem contains a question and two statements, which give certain data. You have to select the correct answer from (a) to (d) depending on the sufficiency of the data given in the statements to answer the questions.
Mark (a) : If statement A alone is sufficient to answer the question and statement B alone is not sufficient to answer the question.
Mark (b) : If statement B alone is sufficient to answer the question and statement A alone is not sufficient to answer the question.
Mark (c) : If statements A and B together are sufficient to answer the question but neither statement alone is sufficient.
Mark (d) : If statements A and B together are not sufficient to answer the question and additional data specific to the problem are needed.

51. Which direction does Pavan face now?
    (A) Pavan turned two times to his right.   (B) before that Pavan was facing East
52. Find the cost of six chairs and four tables
    (A) The cost of two chairs and three tables is Rs. 360.
    (B) The cost of two tables and three chairs is Rs. 540.
53. How many apples are left out in the magic basket?
    (A) In the basket the numbers of apples increases by three in the first hour and in the next hour two apples disappear from the basket.
    (B) There are initially 20 apples in the basket.
54. Is x the daughter of y
    (A) z, who is y's husband is x's father.   (B) w, who is x's sister is the daughter of y and z.

Direction (Question Nos. 55-58): In the following, a series of numbers/group of letters are given. One of them is left blank. Complete the series from the choice given below the questions.
55. a _ ba _ b _ b _ a _ b
    (a) aabba   (b) abbab   (c) bbabb   (d) aabaa
56. A : I :: U : _____
    (a) E   (b) X   (c) P   (d) O
57. 12 : 18 :: 63 : _____.
    (a) 104   (b) 77   (c) 98   (d) 86
58. 4, __, 46, 64, 100

(a) 20   (b) 14   (c) 16   (d) 26

Directions (Question Nos. 59 – 62): In the following questions there are four options given. Find the odd man out among them.

59.   (a) AT   (b) OH   (c) US   (d) HE
60.   (a) Fish   (b) Frog   (c) Whale   (d) Fox
61.   (a) Mango   (b) Apple   (c) Chikoo   (d) Orange
62.   Hunter : Prey has the same meaning as
        (a) Producer: Film   (b) Waiter: Restaurant   (c) Warrior: Sword   (d) Umpire: Pitch

Direction for Question Nos. 63-64. In Certain Code Language
        (1) "nic, mic, ric" means "Bananas are Sweets".
        (2) "sic, lic, nic" means "He sells Bananas".
        (3) "bic, cic, dic" means "Fruits are cheap".

63.   What is the code for He?
        (a) sic   (b) nic   (c) mic   (d) ric
64.   'nic' is the code for
        (a) sweet   (b) fruits   (c) cheap   (d) Bananas

65.   If MOUTH is called TONGUE, TONGUE is called HAND, HAND is called NOSE and NOSE is called LIPS, then with which we write?
        (a) HAND   (b) MOUTH   (c) NOSE   (d) TONGUE

Directions for Question Nos. 66 to 68. Answer the following questions based on the information given below.
A man goes to the house of Madhavi who is the neighbour of Anjali who has a daughter Radhika. Radhika studies in first year. Murthy is the father of Ramu and is married to Kalpana whose sister is Anjali

66.   How is Ramu related to Madhavi?
        (a) Uncle   (b) Cousin   (c) Brother   (d) None of these
67.   How is Anjali related to Ramu?
        (a) Aunty   (b) Sister-in-law   (c) Sister   (d) Niece
68.   What is the relation of Radhika with Ramu ?
        (a) Cousin   (b) Uncle   (c) Brother   (d) Nephew

69.   Which is opposite to South-West?
        (a) North-East   (b) South-East   (c) North-West   (d) South
70.   Four girls are sitting on a bench for the photograph. Shilpa is to the left of Radha. Munni is to the left of Radha. Ritu is between Radha and Munni. Who would be second from left in the photograph?
        (a) Radha   (b) Shilpa   (c) Munni   (d) Ritu
71   The pressure exerted on an enclosed liquid at one place is transmitted equally throughout the liquid. This is called
        (a) Archimedes' principle (b) Pascal's Law   (c) Bernoulli's theorem   (d) None of the above
72.   In an aircraft flying at high altitude, air pumps are used to:
        (a) maintain the speed of the aircraft   (b) maintain the up thrust of the air
        (c) maintain the normal atmospheric pressure   (d) determine direction
73.   Density of water is
        (a) 1000 kg/m^3 (b) 100 kg/m^3 (c) 10 g/cm^3 (d) 100 g/cm^3
74.   Broad wooden sleepers are placed below the rails to
        (a) keep them intact in their position   (b) reduce the pressure exerted by the train
        (c) increase friction   (d) reduce the force applied by the train
75.   The pressure (P) due to a liquid column of height h, of density ρ in a tube of cross-sectional area A is given by (acceleration due to gravity 'g'.
        (a) P = hg   (b) P= h$^3\rho$ A   (c) P= hρg x A   (d) P = hρg
76.   On going up a mountain the height of the mercury column in a barometer
        (a) increases   (b) decreases   (c) remains the same   (d) none of these
77.   A sudden fall of atmospheric pressures indicates
        (a) breeze   (b) storm   (c) cold wave   (d) none of the above
78.   With the increase in temperature the viscosity of a liquid
        (a) decreases   (b) increases   (c) may increase or decrease(d) remains the same
79.   Among the given substances the specific gravity is the highest for
        (a) mercury   (b) alcohol   (c) water   (d) turpentine

80. Water does not flow out of an inverted tumbler covered with cloth due to
    (a) surface tension　　　(b) atmospheric pressure　(c) both (a) and (b)　　(d) none of the above
81. A mug of water when fully immersed in a bucket of water does not feel as heavy as when it is taken out of water. This can be explained on the basis of
    (a) capillary action of water　　　　　　　　(b) Pascal's law
    (c) Archimedes' principle　　　　　　　　　(d) surface tension of water
82. When a piece of ice in a cylinder containing water melts, level
    (a) rises　　　　　　(b) lowers　　　　　　(c) remains the same　　(d) none of the above
83. The shape of the wings of an aero plane is such that
    (a) maximum friction is produced between the aero plane and the atmosphere
    (b) pressure below the wings is higher　　　(c) pressure above the wings is higher
    (d) pressure remains equal on both sides of a wing
84. The rate of change of the position of an object with time in any direction is known as
    (a) distance　　　　　(b) motion　　　　　(c) velocity　　　　　(d) speed
85. The law of multiple proportions was enunciated by
    (a) John Dalton　　　(b) Gay-Lussac　　　(c) Richter　　　　　(d) Lavoiser
86. The molecular formula for ruby (sapphire is)
    (a) $MgCO_3$　　　　(b) Al_2O_3　　　　(c) $PbCO_3$　　　　(d) Na_2O
87. The percentage composition of hydrogen sulphide, water and sulphur dioxide when considered together, illustrates,
    (a) the law of constant composition　　　　(b) the law of reciprocal proportions
    (c) Gay-Lussac's law of gaseous combination　(d) the law of multiple proportions
88. The law which states that a chemical compound always contains the same elements combined in a fixed ratio by mass is known as law of
    (a) definite proportion　　　　　　　　　　(b) multiple proportions
    (c) reciprocal proportions　　　　　　　　　(d) conservation of mass
89. A chemical equation is balanced according to the law of
    (a) multiple proportion　(b) reciprocal proportion　(c) conservation of mass　(d) definite proportion
90. The law of conservation of mass was given by
    (a) Dalton　　　　　(b) Gay-Lussac　　　(c) Proust　　　　　(d) Lavoiser
91. Compounds NaCl, NaH and HCl illustrates the law of
    (a) multiple proportions　(b) conservation of mass　(c) reciprocal proportions　(d) definite proportion
92. The elements helium, neon, argon, kyrpton, xenon and radon are known as:
    (a) inert gases　　　(b) noble gases　　　(c) rare gases　　　(d) all of these
93. The sum of all the changes in the living beings can be termed as
    (a) catabolism　　　(b) anabolism　　　(c) metabolism　　　(d) reproduction
94. Growth in the living beings takes place because
    (a) of reproduction　　　　　　　　　　　(b) anabolism is more than catabolism
    (c) catabolism is equal to anabolism　　　　(d) catabolism is more than anabolism
95. Growth is a simple accretion in
    (a) amoeba　　　　(b) yeast　　　　　(c) man　　　　　(d) sugar crystal
96. Cell theory of organisms was given by
    (a) Bose and Saha　(b) Robert Hooke　(c) Darwin　　(d) Schleiden and Schwan
97. The first use of the telescope for research was made by
    (a) Galileo　　　　(b) Marconi　　　(c) Maxwell　　(d) Dalton
98. Dr Khorana is known for his work in
    (a) nuclear energy　(b) genetics　(c) polio vaccine　　(d) wireless telegraphy
99. Which is the odd one out?

(a) 　(b) 　(c) 　(d)
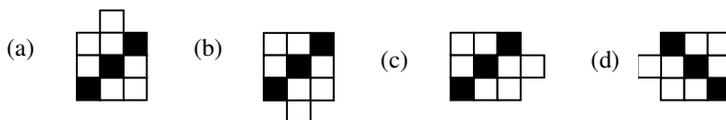
100. Which of the following pattern completes the series?

 :

　　　　(a)　　　(b)　　　(c)　　　(d)