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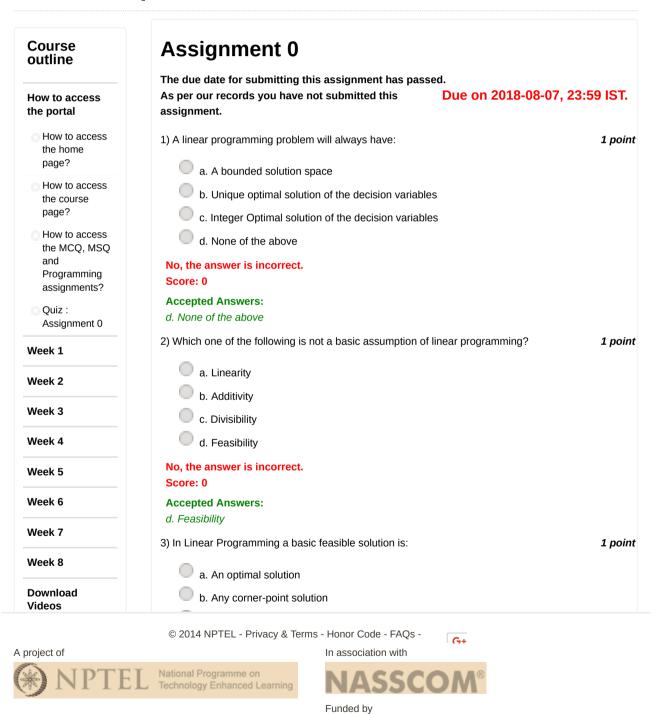
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Government of India Ministry of Human Resource De	4) A Linear Programming problem with a bounded feasible solution space will always have:	1 point
viilistry of Human Resource De	 a. Some basic feasible solutions but no optimal solution 	
	 b. Some basic feasible solutions and at least one optimal solution 	
	c. No basic feasible solutions and no optimal solution	
	d. No basic feasible solutions but at least one optimal solution	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: b. Some basic feasible solutions and at least one optimal solution	
	5) A fair coin is tossed three times. What is the probability of getting three heads, HHH?	1 point
	a. 1/2 b. 1/4 c. 1/8	
	d. None of the Above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	6) Balls numbered 1 to 20 are mixed up and then a ball is drawn at random. What is the probability that the ball drawn has a number which is a multiple of 3 or 5?	1 point
	a. 3/20 b. 7/20 c. 8/20 d. 9/20	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: d. 9/20	
	7) If the price of an item doubles, what per cent of the new price is the increase?	1 point
	a. 25%	
	b. 50%	
	C. 75%	
	d. 100%	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: b. 50%	
	8) Average weight of 11 people in a lift is 60 kg. One person went out at the next floor and nobody joined. If the average weight of the remaining people is now 58, what was the weight of person who went out?	1 point the
	a. 30 kg	
	b. 60 kg	

c. 80 kg	
◯ d. 90 kg	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
c. 80 kg	
9) A school has 's' students equally divided among 'c' classes. The school wants to order enough textbooks so that each student will have a book and each class will have 2 extra leading textbooks does the school need to order?	
a. (s/c) + 2	
b. s+2	
C. s+2c	
d. c+2s	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: c. s+2c	
10)A postman needs to visit all 5 geographically distributed post-offices beginning and er at the same post-office and without visiting any other post-office twice. We need to find the path of the postman so that he covers minimum possible distance. This is an example of:	• .
a. Travelling Salesman problem	
b. Chinese Postman problem	
c. Travelling Postman problem	
d. Chinese Salesman problem	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
a. Travelling Salesman problem11)Dynamic programming' falls under which category?	1 point
a. Enumerative Technique	
b. Simulation Technique	
c. Meta-heuristic Technique	
d. None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: a. Enumerative Technique	
12)n a Pure Integer linear programming problem:	1 point
a. The decision variables are integers	
b. The objective function value is integer	
c. The decision variables as well as objective function values are integers	
d. None of the above	
No, the answer is incorrect.	

Score: 0	
Accepted Answers:	
a. The decision variables are integers	
13)f we want to find the value of the variable 'x' that maximizes a differentiable function then we should:	n f(x), 1 point
c. Find 'x' from $df/dx = 0$	
b. Find 'x' from $df/dx = 0$ and check that that second derivative is positive	
c. Find 'x' from df/dx = 0 and check that that second derivative is negative	
d. Find 'x' from second derivative = 0	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
c. Find 'x' from $df/dx = 0$ and check that that second derivative is negative	
14)n a Non-linear programming problem:	1 point
a. The objective function must be non-linear	
b. All the constraints must be non-linear	
c. The objective function and all the constraints must be non-linear	
d. Either the objective function or at least one constraint must be non-linear	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
d. Either the objective function or at least one constraint must be non-linear	
15Meta-heuristic techniques are:	1 point
a. Calculus-based techniques	
b. Guided Random Search techniques	
c. Enumerative techniques	
d. None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
b. Guided Random Search techniques	
16)Genetic Algorithm technique are:	1 point
a. Calculus-based	
b. Nature-inspired	
c. Enumerative	
d. None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
b. Nature-inspired	
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