

GATE 2020

Graduate Aptitude Test in Engineering 2020

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Organising Institute



BM: Biomedical Engineering

GA - General Aptitude

Q1 - Q5 carry one mark each.

Q.No. 1 Rajiv Gandhi Khel Ratna Award was conferred_____Mary Kom, a six-time world champion in boxing, recently in a ceremony_____the Rashtrapati Bhawan (the President's official residence) in New Delhi.

- (A) with, at
- (B) on, in
- (C) on, at
- (D) to, at

Q.No. 2 Despite a string of poor performances, the chances of K. L. Rahul's selection in the team are_____.

- (A) slim
- (B) bright
- (C) obvious
- (D) uncertain

Q.No. 3

- (A) Unassociate
- (B) Inassociate
- (C)
- (D) Dissociate

Q.No. 4

- (A)
- (B) Officials want the food-grain production target to be met by the November-February period.
- (C)
- (D)

Q.No. 5

- (A) $n^2 - n$
- (B) $n^2 + n$
- (C) $2n^2 - n$
- (D) $2n^2 + n$

Q6 - Q10 carry two marks each.

Q.No. 6

- (A)
- (B)

(C) Increase in repo rate will decrease cost of borrowing and decrease lending by commercial banks.

(D)

Q.No. 7

(A) P is a neighbour of R.

(B) Q is a neighbour of R.

(C)

(D) R is the left neighbour of S.

Q.No. 8

(A) 66.6

(B) 75.2

(C) 88.2

(D)

Q.No. 9

(A) 0

(B) 6

(C) 12

(D) 16

Q.No. 10

(A) 15 : 17

(B) 16 : 17

(C)

(D) 17 : 16

BM: Biomedical Engineering

Q1 - Q25 carry one mark each.

Q.No. 1 m_1 and m_2 are the roots of the characteristic equation of a linear second order physical system. Match the nature of the roots with the natural response of the system.

Nature of roots		System response	
P	m_1 and m_2 are real and distinct	K	Critically damped
Q	m_1 and m_2 are equal	L	Overdamped
R	m_1 and m_2 are complex	M	Underdamped

(A) P-L, Q-M, R-K

(B) P-M, Q-L, R-K

(C) P-L, Q-K, R-M

(D) P-M, Q-K, R-L

Q.No. 2 A person is sitting in a chair with feet on the ground. While rising up on his feet, the kinematic motion NOT occurring is

(A) Hip extension

- (B) Plantar flexion
- (C) Hip flexion
- (D)

Q.No. 3

- (A)
- (B)
- (C)
- (D)

Q.No. 4

- (A)
- (B)
- (C)
- (D)

Q.No. 5

- (A)
- (B)
- (C)
- (D)

Q.No. 6

- (A)
- (B)
- (C)
- (D)

Q.No. 7

- (A)
- (B)
- (C)
- (D)

Q.No. 8

- (A)
- (B)
- (C)
- (D)

Q.No. 9

- (A)
- (B)
- (C)
- (D)

Q.No. 10

- (A)
- (B)
- (C)
- (D)

Q.No. 11

- (A)
- (B)
- (C)
- (D)

Q.No. 12

- (A)
- (B)
- (C)
- (D)

Q.No. 13

- (A)
- (B)
- (C)
- (D)

Q.No. 14

- (A)
- (B)
- (C)
- (D)

Q.No. 15

- (A)
- (B)
- (C)
- (D)

Q.No. 16

Q.No. 17

Q.No. 18

Q.No. 19

Q.No. 20

Q.No. 21

Q.No. 22

Q.No. 23

Q.No. 24

Q.No. 25

Q26 - Q55 carry two marks each.

Q.No. 26

- (A)

(B)

(C)

(D)

Q.No. 27

(A)

(B)

(C)

(D)

Q.No. 28

(A)

(B)

(C)

(D)

Q.No. 29

(A)

(B)

(C)

(D)

Q.No. 30

(A)

(B)

(C)

(D)

Q.No. 31

(A)

(B)

(C)

(D)

Q.No. 32

(A)

(B)

(C)

(D)

Q.No. 33

(A)

(B)

(C)

(D)

Q.No. 34

(A)

(B)

(C)

(D)

Q.No. 35

- (A)
- (B)
- (C)
- (D)

Q.No. 36

- (A)
- (B)
- (C)
- (D)

Q.No. 37

- (A)
- (B)
- (C)
- (D)

Q.No. 38

- (A)
- (B)
- (C)
- (D)

Q.No. 39

- (A)
- (B)
- (C)
- (D)

Q.No. 40

- (A)
- (B)
- (C)
- (D)

Q.No. 41

- (A)
- (B)
- (C)
- (D)

Q.No. 42

- (A)
- (B)
- (C)
- (D)

Q.No. 43

- (A)
- (B)
- (C)
- (D)

Q.No. 44

Q.No. 45

Q.No. 46

Q.No. 47

Q.No. 48

Q.No. 49

Q.No. 50

Q.No. 51

Q.No. 52

Q.No. 53

Q.No. 54

Q.No. 55

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