Question Paper Name: 5290 Biomechanics 30th June 2019 Shift 2

Subject Name: Biomechanics
Creation Date: 2019-06-30 18:16:52

Duration:180Total Marks:100Display Marks:Yes

Biomechanics

Group Number:

Group Id: 489994210

Group Maximum Duration:

Group Minimum Duration:

Revisit allowed for view?:

No
Revisit allowed for edit?:

No
Break time:

Group Marks:

100

Biomechanics

Section Id:
Section Number:
Section type:
Mandatory or Optional:
Number of Questions:
Number of Questions to be attempted:
Section Marks:
Display Number Panel:
Group All Questions:

489994266

1
Online
Mandatory
100
100
Yes
No

Sub-Section Number: 1

Sub-Section Id: 489994290

Question Shuffling Allowed: Yes

Question Number : 1 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Movements possible in condyloid joint are

- a. Flexion and extension
- b. Circumduction only
- c. Flexion, extension abduction, addu-ction
- d. Flexion, extension, abduction addu-ction and circumduction.

Options:

1.1



www.FirstRanker.com

Question Number: 2 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is an example of uniaxial joint? a. Condyloi b. Saddle c. Hinge d. Condyloid and saddle both. **Options:** 1.1 2.2 3.3 4.4 Question Number: 3 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 The cartilage which serves to cushion the impact of large forces on bone ends is called a. Fibrous cartilage b. Hyaline cartilage c. Notch d. fossa. **Options:** 1. 1 2.2 3.3 4.4 **Question Number : 4 Question Type : MCQ** Shuffling: No Display Question Number: Yes Single Line Question Option: **No Option Orientation: Vertical** Correct Marks: 1 Wrong Marks: 0 Function of long bones in the body is to a. Give strength b. Give protection c. Act as lever d. Provide surface area for muscle atta-chment. **Options:** 1.1 2.2 3.3 4.4

Question Number: 5 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:

Correct Marks: 1 Wrong Marks: 0 www.FirstRanker.com

No Option Orientation: Vertical

Lateral extension.

www.FirstRanker.com

3. 3

4.4

Question Number: 9 Question Type: M	1CQ	Option Shuffling: No	Display Question Number :	Yes	Single Line Question Option
No Option Orientation : Vertical					

Correct Marks: 1 Wrong Marks: 0

Synovial joints are

- a. Slightly movable
- b. Freely movable
- c. Both (a) and (b)
- d. None of the above.

Options:

- 1. 1
- 2. 2
- 3. 3
- 4.4

Question Number: 10 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The vertical axis passes

- a. Perpendicular to the ground
- b. Horizontal to the ground
- c. Both (a) and (b)
- d. None of above.

Options:

- 1. 1
- 2.2
- 3. 3
- 4. 4

Question Number: 11 Question Type: MCS Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The law of gravity is an example of a law of motion studied in the body of knowledge

called

- a. Chemistry
- b. Physics
- c. Mechanics
- d. All the above.

Options:

- 1.1
- 2.2
- 3. 3

4. 4

www.FirstRanker.com

Largest bone in the human body is

- a. Femur
- b. Hummers
- c. Tibia
- d. Fibula.

Options:

- 1.1
- 2.2
- 3. 3
- 4.4

Question Number: 13 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Shortest bone in the human

- a. phalange
- b. metatarsal
- c. in nominate bone
- d. tarsal.

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

Question Number : 14 Question Type : MCQ Option Shuffling : Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following has maximum percentage in the ComQaVdon bone 1

- a. Calcium sulphate
- b. Calcium phosphate
- c. Chloride
- d. Fluoride.

Options:

- 1. 1
- 2. 2
- 3.3
- 4. 4

Question Number: 15 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

c. Type III

Options:

d. All the above.



www.FirstRanker.com

3. 3

4.4

Question Number: 19 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The movements around ball and socket joints are

- a. Flexion and extension
- b. Rotation and circumduction
- c. Hyper extension
- d. All the above.

Options:

- 1.1
- 2. 2
- 3.3
- 4.4

Question Number : 20 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Bone cells are also called

- a. Osteoblasts
- b. osteocytes
- c. osteoclasts
- d. osteoporosis.

Options:

1.1

2. 2

3.3

4.4

Question Number : 21 Question Type : MCC Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Technique of ossification of bones of right hand is used to determine

- a. Height
- b. Age
- c. Weight
- d. Equilibrium ability.

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

Question Number : 22 Question Type : MCQ Option Shuffirst Ranker : Comestion Number : Yes Single Line Question Option : No Option Orientation : Vertical

www.FirstRanker.com

- a. extends knee
- b. flexes knee
- c. extends elbow
- d. flexes elbow.

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

Question Number : 23 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following is a ball and socket joint?

- a. Hip joint
- b. Shoulder joint
- c. Both (a) and (b)
- d. None of the above.

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

Question Number : 24 Question Type : MCQ Option Shuffling : No Option Orientation : Vertical Question Number : Yes Single Line Question Option :

Correct Marks: 1 Wrong Marks: 0

During abduction the arm moves

- a. Towards the body
- b. Away from the body
- c. In front of the chest
- d. None of the above.

Options:

- 1.1
- 2.2
- 3.3
- 4.4

Question Number : 25 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

In which type of lever, the force is in between weight and fulcrum?

- Type I
- b. Type II
- c. Type III
- d. All the above.

www.FirstRanker.com

2. 2

3.3

4.4

Question Number : 26 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

. 'Latissimus Dorsi' is situated in

- a. lower leg
- b. thigh
- c. Back
- d. upper arm.

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number : 27 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

'Lordosis' is also called

- a. Round back
- b. Hollow back
- c. Lateral back
- d. Back curve.

Options:

- 1.1
- 2. 2
- 3.3
- 4.4

Question Number : 28 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

. Parabola is

- The path of an object projected into free air
- b. path of an object formed with air resistance
- c. Path of the object falling vertically down
- d. None of the above.

- 1.1
- 2. 2
- 3. 3
- 4. 4

www.FirstRanker.com

Which of the following is responsible for limiting the range of movements of joint?

- a. Tendons
- b. Ligament
- c. Both (a) and (b)
- d. Muscle fibers.

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

Question Number : 30 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

- . 'Zygomatic' bone is present in
- Upper extremities
- b. Lower extremities
- c. Vertebral column
- d. Skull.

Options:

- 1. 1
- 2. 2
- 3. 3
- 4.4

Question Number : 31 Question Type : MCQ Option Shuffling No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Flexion at elbow in brought about by

- a. Biceps
- b. Triceps
- c. Both (a) and (b)
- d. None of the above.

Options:

- 1.1
- 2. 2
- 3.3
- 4.4

Question Number: 32 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:

No Option Orientation : Vertical

www.FirstRanker.com

2.2

3.3

4.4

Question Number: 36 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following statements about the anisotrophic phenomenon is TRUE?

- Aniosotrophy indicates the phenomenon that the tissue exhibits different mechanical properties when loaded in different speeds.
- Only the bone tissue in human body presents the anisotrophic phenomenon.
- c. That the bone can tolerate more tensile stress in the horizontal direction than that in the longitudinal direction is one kind of anisotrophic phenomenon.
- d. Both stiffness and strength are greatest in the direction in which daily loads are most commonly imposed.

Options:

- 1.1
- 2.2
- 3.3
- 4.4

Question Number: 37 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Strongest ligament of the hip joint is

- a. pub femoral
- b. Ileofemoral
- c. Ischiofemoral
- d. None of the above

Options:

- 1.1
- 2.2
- 3. 3
- 4.4

Question Number: 38 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

1.15

Correct Marks: 1 Wrong Marks: 0

The maximum content of carbon in 316L stainless steel is

- a. 0.03%
- 0.06%
- c. 0.08%
- d. 12 %

- 1.1
- 2. 2



www.FirstRanker.com

Question Number: 39 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following statements about a fractured hip implant made from a titanium alloy (Ti6-Al4-V) could NOT be correct?

- a. It failed because it was stressed above its fatigue limit.
- b. It failed because it was loaded beyond its tensile strength.
- c. It failed due to pitting corrosion.
- d. None of these

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number : 40 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The ionic covalent bonding of oxide ceramics results in which of the following characteristics?

- a. Failure by elastic deformation
- b. Strong in compression and weak in tension
- c. Corrosion resistant in body fluids
- d. All true

Options:

1. 1

2.2

3.3

4.4

Question Number : 41 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which statement(s) is FALSE for an amorphous polymer?

- It has no crystalline regions.
- All chains are random.
- It exhibits glass-like properties above its glass transition temperature.
- It exhibits electrometric properties above its glass transition temperature.

Options:

- 1. 1
- 2.2
- 3. 3
- 4.4

Question Number: 42 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Options:

1. 1

2.2

3.3

4.4

Question Number : 45 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical



www.FirstRanker.com

3. 3

4.4

Question Number: 49 Question Type: MCQ	Option Shuffling: No	Display Question Number:	Yes Single Line	Question Option
No Option Orientation : Vertical				

Correct Marks: 1 Wrong Marks: 0

The factor which increases risk of osteoporotic fracture is:

- a. High bone mineral density
- b. High lean mass
- c. High body weight
- d. Poor muscle strength

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

Question Number : 50 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

A test conducted by applying a load on the material, maintaining the load at a constant level for some time, suddenly removing the load, and observing the material response is called:

- a. Fatigue test
- b. Creep and recovery test
- Endurance limit test
- d. None of the above

Options:

1. 1

2.2

3. 3

4.4

Question Number: 51 Question Type: MCO Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

A fibrous protein resembling the material properties of rubber is:

- a. Proteoglycans
- b. Collagen
- c. Elastin
- d. None of These

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 52 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical www.FirstRanker.com

2.2

Correct Marks: 1 Wrong Marks: 0

www.FirstRanker.com

www.FirstRanker.com

Question Number : 56 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Which of these structures is found in compact bone, but not in spongy bone? a. osteoclasts b. 1 canaliculi c. amellae d. central (Haversian) canals
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 57 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Carpal joint is the example of:
a. Pivot joint
b. Condyloid joint
c. Hinge joint d. Ball and socket joint
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 58 Question Type: MCQ Option Shuting: No Display Question Number: Yes Single Line Question Option No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
is a unique ability of the muscle tissue, which is defined as the
development of tension in the muscle.
a. Extension b. Flexibility
c. Rigidity
d. Contraction
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 59 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option No Option Orientation : Vertical

a. Microtubules anker's choice	rsion is regulated by: www.FirstRanker.com	www.FirstRanker.com
b. Microfilaments c. Intermediate Filaments d. All of these		
Options:		
2. 2		
3. 3		
4. 4		
Question Number : 60 Question Type : MCQ No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0	Option Shuffling: No Display Question	Number : Yes Single Line Question Option :
Which of the following comes under that a. Enzyme linked receptors b. Ion-channel linked receptors c. G protein linked receptors d. All of these	e category of cell surface receptor?	
Options:		
1. 1 2. 2		
3. 3		
4. 4		
Question Number : 61 Question Type : MCQ No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0	Option Shuffling: No Display Opestion	Number: Yes Single Line Question Option:
Osteocytes more actively and directly i	respond to:	
a. Stress b. Strain c. Fluid Shear d. None of These		
Options:	V `	
1. 1		
2. 2		
3. 3 4. 4		
Question Number : 62 Question Type : MCQ No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0	Option Shuffling : No Display Question	Number: Yes Single Line Question Option:
Endoskeleton involves		
a. Covering of skin, hair, nails		
b. Bones and cartilagesc. Bones only		
d. None of the above.		
Options:		
1. 1 <u> </u>		
<u></u>	www.FirstRanker.com	

www.FirstRanker.com

Question Number: 63 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: **No Option Orientation : Vertical** Correct Marks: 1 Wrong Marks: 0 Exoskeleton involves a. Covering of skin, hair nails Bones and cartilages c. Long bones only d. Short bones only. **Options:** 1. 1 2.2 3.3 4.4 Question Number: 64 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Study of joints is called Kinesiology b. Biology c. Anthropometry d. Anthology. **Options:** 1.1 2.2 3.3 4.4 Question Number: 65 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 'Hunch back' is also known as a. Back pain b. Scoliosis c. lordosis d. kyphosis. **Options:** 1.1 2.2

Question Number : 66 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

3. 3 4. 4



www.FirstRanker.com

3. 3

4.4

Question Number: 70 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

'Trapeziums' muscles help in

- a. Pushing the neck backward
- b. Punching
- c. Raising the leg forward
- d. None of the above

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 71 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Strongest ligament of the hip joint is

- a. pub femoral
- b. Ileofemoral
- c. Ischiofemoral
- d. None of the above.

Options:

1.1

2. 2

3.3

4.4

Question Number : 72 Question Type : MCC Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which type of lever is most effective in sport movements?

- a. Third class
- b. Second class
- c. First class
- d. None of the above.

- 1.1
- 2. 2
- 3. 3
- 4.4

www.FirstRanker.com

2. 2

3.3

4.4

Question Number: 77 Question Type: MCQ	Option Shuffling: No	Display Question Number:	Yes Single Line Question Option	on
No Option Orientation : Vertical				

Correct Marks: 1 Wrong Marks: 0

Under normal forward bending (flexion), the spinal cord experiences

- a. Tension on the posterior side and compression on the other side.
- b. Tension on the anterior side and compression on the other side.
- c. Shear stress on the posterior side and normal stress on the other side.
- d. Bending moment on the anterior side and tension on the other side.

0		4.0			~
U	μ	u	U	Ш	S

- 1. 1
- 2.2
- 3. 3
- 4.4

Question Number: 78 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

A ballet dancer rotates his body in the air with his arm by sides at a certain rotational velocity (ω) and the moment of inertia is equal to I. If he wants to reduce his rotational velocity by half (ω /2), what should he do?

- a. to flex his hips up
- b. to lift his arms out
- to bend his knees
- d. to put his hand on the head

Options:

1. 1

2. 2

3.3

4.4

Question Number : 79 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The strength of a collagen fiber is defined as

- a. the stress which the fiber can sustain before failure
- b. the strain which the fiber can sustain before failure
- c. the energy which the fiber can store before failure
- d. all of the above

- 1.1
- 2.2
- 3.3 -

FirstRanker.com Juestion Number: Yer Single Line Operation Option Shuffling: No Display Operation Number: Yer Single Line Operation Option : No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

'Neck joint' is an example of

- a. Pivot joint
- b. Hinge joint
- c. Saddle joint
- d. Condyloid joint.

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 81 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Assume a leg has 12m shaft of bone with an average cross sectional area of 3 cm2.

What is the amount of shortening when all of the body weight 700 N is supported on

this leg? (Young modulus of bone = $1.8 \times 1010 \text{ N/m2}$)

- a. 0.15 mm
- 1.5 mm
- c. 0.51 mm
- d. 5.1 mm

Options:

- 1.1
- 2. 2
- 3.3
- 4.4

Question Number: 82 Question Type: MCQ Option Stuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Collagen acts like a mechanical

- a. Lever
- b. spring
- c. load
- d. actuator

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number: 83 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

www.FirstRanker.com

- Yield strength (σ yield) decreases as grain size (D) increases.
- b. Yield strength (σ yield) increases as grain size (D) decreases.
- c. A metal with large grains will bend more easily than a metal with small grains.
- d. All a, b, c are possible ways

Options:

- 1.1
- 2.2
- 3.3
- 4.4

Question Number: 84 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Applying a bioactive or porous coating to a titanium alloy implant may heat the metal to 800 °C. Which of the following may result?

- The grain size decreases.
- b. The yield strength decreases.
- c. The yield strength increases.
- d. The modulus of elasticity increases.

Options:

- 1.1
- 2.2
- 3.3
- 4.4

Splay Question Number: Yes Single Line Question Option: Question Number: 85 Question Type: MCQ Option Shuffling: No No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The stress-strain curve for an alumina bioceramic differs from Ti metal alloy (Ti6-

Al4-V) in which of the following ways?

- a. Higher strain to failure
- b. Lower strain to failure
- c. Both a & b are true
- d. Both a & b are false

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number: 86 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:

No Option Orientation: Vertical

How do biocomposites rank in clinical importance to metals, ceramics and polymers?

a. Highb. Mediumc. Low

d. Very low

www.FirstRanker.com

2. 2

3.3

4.4

Question Number : 90 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

An image whose FFT has two peaks displaced horizontally is

- a. A horizontal bar pattern.
- b. Convolution kernal.
- A deconvolution kernal.
- A vertical bar pattern.

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number : 91 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

If f is convolved with a kernal g, f may be recovered by convolving with

- a. the inverse FT of the reciprocal of the FT of g.
- the inverse FT of the kernal FT.
- c. the FT of the kernal.
- d. the FT of the original image.

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 92 Question Type: MCO Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks : 1 Wrong Marks : 0

are used to provide the contractile mechanism of muscles

- a. Structural proteins
- b. Lipids
- c. Globular proteins
- d. Cytoplasm

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 93 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical www.FirstRanker.com

F	FirstRanker.c	om he transportation of oxygen?	
a.	hemoglobin	www.FirstRanker.com	www.FirstRanker.com
	oxyhemoglobin		
	reduced hemoglobin		
	red cell count		
Opt	ions:		
1. 1			
2. 2	2		
3. 3	3		
4. 4	1		
No	stion Number: 94 Question Type: MCQ (Option Orientation: Vertical rect Marks: 1 Wrong Marks: 0	Option Shuffling: No Display Question	Number: Yes Single Line Question Option
Ma	ximum and minimum normal stresses	at a material point are:	
a.	Shear stress		
b.	In plane maximum shear stress		
	Absolute shear stress		
d.	Principal stresses		
Opt	ions:		
1. 1			
2. 2	2		
3. 3	3		
4. 4	1		
No	stion Number: 95 Question Type: MCQ (Option Orientation: Vertical rect Marks: 1 Wrong Marks: 0	Option Shuffling: No Display Question	n Number: Yes Single Line Question Option
Th	e stress at which the fatigue curve leve	els are off is known as:	
a.	Proportional limit		
b.	Creep		
	Breaking point		
d.	Endurance limit		
Opt	ions:		
1. 1			
2. 2	2		
3. 3	3		
4. 4	1		
No	stion Number: 96 Question Type: MCQ (Option Orientation: Vertical rect Marks: 1 Wrong Marks: 0	Option Shuffling: No Display Question	n Number: Yes Single Line Question Option
	stic materials show time-independent form when they are subjected		e materials
	Gradually when they are subjected	i to externally applied loads.	
	Instantaneously		
	Continuously		
	None of these	www.FirstRanker.com	

www.FirstRanker.com

2. 2

3.3

4.4

Question Number : 97 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following comes under the category of cell surface receptor?

- a. Enzyme linked receptors
- b. Ion-channel linked receptors
- c. G protein linked receptors
- d. All of these

Options:

1. 1

2. 2

3. 3

4.4

Question Number: 98 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Osteocytes more actively and directly respond to:

- a. Stress
- b. Strain
- c. Fluid Shear
- d. None of These

Options:

1. 1

2. 2

3. 3

4.4

Question Number: 99 Question Type: MCQ Question Shuffling: No Display Question Number: Yes Single Line Question Option:

4.

No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The size of actin filament in diameter is nearly:

a. 7-9 nm

b. 12-14 nm

c. 18-20 nm

d. 24-30 nm

Options:

1. 1

2. 2

3. 3

4. 4

Question Number: 100 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:

www.FirstRanker.com

- b. Hyaluronan
- c. Collagen and Elastin
- d. Integrin

Options:

- 1. 1
- 2. 2
- 3. 3
- 4. 4

www.FirstPanker.com