

Computer Based Examination System

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Title *	Question Paper Answer Key
OES Exam *	GPSC11202309 / Lecturer in Allied Health Science Courses in Physiotherapy/ Completed / 2024-03-03

1	Question Description	Example of dystrophic calcification
	A	Hyperparathyroidism
	B	Sarcoidosis
	C	Hypervitaminosis D
	D	Myositis Ossificans
	E	None of the above
	Correct Answer	D
	Marks	1

2

Question Description	In amputation, Myoplasty is done primarily to :
A	Allow and bearing on stump
B	Produce best cosmetic appearance
C	Restore resting length of muscle and improves circulation
D	All of the above
E	None of the above
Correct Answer	A
Marks	1

3

Question Description	A patient was diagnosed with a C7 complete spinal cord injury, secondary to motor vehicle accident, has asked her physical therapist what complications come along with being a spinal cord injured person. Which of the following answers is NOT a correct response to the patient's question?
A	Discuss with the patient the change in vital capacity, as the patient at first will initially only have 30% of what she had before, but with hard work, she will be able to return to 90-100%
B	Describe to the patient what ulcers are and the importance of performing pressure relief 3-4 times an hour and how a turning program will help eliminate the risk
C	Educate the patient on deep vein thrombosis and explain that these are common during the first 3 months of recovery and can be prevented by a regular turning program, PROM, elastic stockings and proper positioning of the lower extremities.
D	Discuss with the patient how temperature internally and externally will now affect her. At first the patient will have difficulty with hypothermia and then eventually that will change to hyperthermia. This is all due to a lack of control over sweat glands and initial difficulties with vasodilation.
E	None of the above
Correct Answer	A
Marks	1

4	Question Description	Thomas knee flexion test is used to detect
	A	Lumbar lordosis
	B	Shoulder stability
	C	Hip knee flexion
	D	Knee flexion deformity
	E	None of the above
	Correct Answer	C
	Marks	1

5	Question Description	In which fracture garden spade deformity is seen
	A	Colle's fracture
	B	Bennett's fracture
	C	Barton's fracture
	D	Smith's fracture
	E	None of the above
	Correct Answer	D
	Marks	1

6

Question Description	A person suffers from a peripheral vascular disorder of the lower limbs, he also suffers from osteoarthritis of knee. Which is the best electrotherapy modality of choice?
A	Iontophoresis
B	Infrared
C	Ultraviolet radiation
D	Pulsed Diathermy
E	None of the above
Correct Answer	A
Marks	1

7

Question Description	Duga's test is diagnostic of
A	Anterior dislocation of shoulder
B	Scaphoid fracture
C	Fracture neck of femur
D	Dislocation of hip
E	None of the above
Correct Answer	A
Marks	1

8

Question Description	Manual muscle testing is the application of ___ by the tester or by the ___ to the voluntary maximum ___ of the patient's muscle
A	Resistance, force of gravity, contraction
B	Pressure, force of resistance, volume
C	The force of gravity, contraction, resistance
D	Bandages, assistance, girth
E	None of the above
Correct Answer	A
Marks	1

9

Question Description

_____ is known as the father of the 'Jaipur Foot'.

A

Dr N. Gopinathan

B

Dr Pramod Sethi

C

Dr Mohan Rao

D

Dr Pramod Pawar

E

None of the above

Correct Answer

B

Marks

1

10	Question Description	Ultrasonnd (US) waves have a frequency which is above the human ear's audible range. The correct option for the frequency of US wave is?
	A	20 – 200Hz
	B	20 – 2000Hz
	C	20 – 20,000Hz
	D	Above 20,000Hz
	E	None of the above
	Correct Answer	D
	Marks	1
11	Question Description	Which of the following is INCORRECT about sciatic nerve?
	A	It is the longest single nerve in the human body
	B	It innervates nearly the whole lower leg
	C	It is derived from the L4-S3 segments of the brachial plexus
	D	It gives branches to Tibial and Common peroneal nerves
	E	None of the above
	Correct Answer	C
	Marks	1

12	Question Description	Electromyography
	A	Records muscles action potentials
	B	Records muscle twitch
	C	Measures electrical activity of the heart muscle
	D	Measures neuronal action potential
	E	None of the above
	Correct Answer	D
	Marks	1

13	Question Description	Pronation and supination takes place on
	A	Sagittal plane and frontal axis
	B	Frontal plane and sagittal axis
	C	Transverse plane and vertical axis
	D	Coronal plane and horizontal axis
	E	None of the above
	Correct Answer	C
	Marks	1

14

Question Description	Pain sensation is carried by
A	Medial spinothalamic tract
B	Lateral spinothalamic tract
C	Posterior column
D	Anterior column
E	None of the above
Correct Answer	B
Marks	1

15

Question Description	Sonic waves are a series of mechanical compressions and rarefactions in the direction in which the waves are travelling. Hence they are called __
A	Triangular waves
B	Rectangular waves
C	Longitudinal waves
D	Parallel waves
E	None of the above
Correct Answer	C
Marks	1

16	Question Description	Rheobase is
	A	Maximum tolerable current for a nerve impulse at long duration
	B	Minimum current for a nerve impulse at short duration
	C	Minimum current for a nerve impulse at long duration
	D	Maximum tolerable current for impulse at short duration
	E	None of the above
	Correct Answer	C
	Marks	1

17	Question Description	UCBL (University of California – Berkley lab) insert in indicated for
	A	Equines foot
	B	Cavus foot
	C	Flat foot
	D	CTEV
	E	None of the above
	Correct Answer	C
	Marks	1

18

Question Description	Rule of nine is used in assessing
A	Area of burns
B	Severity of Psoriasis
C	Scoring brain injury
D	Weakness in spine injury
E	None of the above
Correct Answer	A
Marks	1

19

Question Description	Gowers sign is seen in
A	Herpes zoster
B	Sciatic nerve palsy
C	Marfan's syndrome
D	Duchenne muscular dystrophy
E	None of the above
Correct Answer	D
Marks	1

20	Question Description	The types of muscles fibers mostly activated by electrical stimulation are:
	A	Type -I fibers
	B	Type-IIa fibers
	C	Type-IIb fibers
	D	All of the above
	E	None of the above
	Correct Answer	B
	Marks	1

21	Question Description	TENS is application of low frequency current in the form of
	A	Pulsed rectangular current
	B	Pulsed digital current
	C	Pulsed triangular current
	D	Energy
	E	None of the above
	Correct Answer	A
	Marks	1

22

Question Description	In anaerobic respiration if yeast is added to fruit juices, the sugar gets converted to which chemical?
A	Lactic acid
B	Formic acid
C	Alcohol
D	All of the above
E	None of the above
Correct Answer	C
Marks	1

23

Question Description	Multiple Sclerosis is a disease that attacks the ___ of neurons in the CNS
A	Myelin sheaths
B	Axon terminals
C	Sodium channels
D	Nicotine receptors
E	None of the above
Correct Answer	A
Marks	1

24	Question Description	While using Infra-red (IR) lamp, the distance of the lamp from the patient should be around __
	A	10 – 25cm
	B	50 – 75cm
	C	90 – 100cm
	D	75 – 90cm
	E	None of the above
	Correct Answer	A
	Marks	1

25	Question Description	What type of muscle contraction is utilized while performing rhythmic stabilization
	A	Isometric
	B	Isotonic
	C	Isokinetic
	D	Eccentric
	E	None of the above
	Correct Answer	A
	Marks	1

26

Question Description

Which of the following equipment's is/are used for plyometric exercises?

I.Dumbbels

II.Hurdles

III.Stairsteps

A

I and II

B

Only II

C

I, II and III

D

II and III

E

None of the above

Correct Answer

C

Marks

1

27

Question Description	In hemiparesis, lower leg circumducts during the swing phase also known as
A	Cautious gait
B	Wernicke-Mann gait
C	Crouch gait
D	Spastic gait
E	None of the above
Correct Answer	B
Marks	1

28	Question Description	ETOIMS stands for
	A	Electrical treatment option for intramuscular stimulation
	B	Electrical twitch obtaining intramuscular stimulation
	C	Electrical twitch observed on intramuscular stimulation
	D	Electronic twitch observed intramuscular stimulation
	E	None of the above
	Correct Answer	B
	Marks	1

29	Question Description	Kabat, Margaret Knott and Dorothy Voss developed
	A	Proprioceptive nerve facilitation
	B	Synergistic movement pattern
	C	Progressive pattern movement
	D	Reflex creeping and reflex reaction
	E	None of the above
	Correct Answer	A
	Marks	1

30

Question Description	Nodding movement of the head is an example of order lever.
A	1st
B	2nd
C	3rd
D	4th
E	None of the above
Correct Answer	A
Marks	1

31	Question Description	In a gait cycle, stance phase accounts for about
	A	40%
	B	30%
	C	60%
	D	59%
	E	None of the above
	Correct Answer	C
	Marks	1

32	Question Description	Which of the following does Golgi tendon organ detect?
	A	Muscle tension
	B	Dynamic muscle length
	C	Static muscle length
	D	Muscle action
	E	None of the above
	Correct Answer	A
	Marks	1

33

Question Description	The Severity of a ligament injury progression from
A	Strain to tear
B	Sprain to tear
C	Strain to sprain
D	Sprain to strain
E	None of the above
Correct Answer	B
Marks	1

34

Question Description	You are seeing a patient who is extremely obese, has a considerable amount of body fat. What frequency of Ultrasound therapy is effective in individual's with a high percentage of cutaneous body fat?
A	1Mhz
B	2Mhz
C	3Mhz
D	4Mhz
E	None of the above
Correct Answer	A
Marks	1

35

Question Description	Leg lowering from extended knee position, Quadriceps work
A	Concentrically
B	Eccentrically
C	Statically
D	Isokinetically
E	None of the above
Correct Answer	B
Marks	1

36	Question Description	Changes in sensory aphasia are often associated with a __ lesion
	A	Frontal lobe
	B	Parietal lobe
	C	Broca's area
	D	Wernicke's area
	E	None of the above
	Correct Answer	D
	Marks	1

37	Question Description	The measurement for axillary crutch is taken from
	A	Anterior axillary fold to 20cm forward and lateral to little toe
	B	Tip of axilla to 20cm forward and lateral to little toe
	C	Anterior axillary fold to tip of medial malleolus
	D	All of the above
	E	None of the above
	Correct Answer	B
	Marks	1

38	Question Description	Which muscle fiber has the highest resistance to fatigue?
	A	Type 1
	B	Type 2A
	C	Type 2B
	D	Type 1A
	E	None of the above
	Correct Answer	A
	Marks	1

39	Question Description	The maximum volume of air contained in the lung by a full forced inhalation is called _____.
	A	Tidal volume
	B	Vital capacity
	C	Ventilation rate
	D	Total lung capacity
	E	None of the above
	Correct Answer	D
	Marks	1

40

Question Description	Which is the important factor to gain bone density?
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A	Resistance training
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B	Weight bearing aerobic conditioning
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C	Weight bearing resistance training
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D	Non weight bearing aerobic training
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E	None of the above
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Correct Answer	C
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Marks	1
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41

Question Description	What is the leading cause of sciatica?
A	piriformis syndrome
B	spinal stenosis
C	spinal disc herniation
D	spondylolisthesis
E	None of the above
Correct Answer	C
Marks	1

42

Question Description	During muscular contraction, if the tension developed by the muscle while shortening at constant speed is maximal over the full range of motion, it is called
A	Isotonic Contraction
B	Isometric Contraction
C	Eccentric Contraction
D	Isokinetic Contraction
E	None of the above
Correct Answer	D
Marks	1

43

Question Description	IRR can be produced with the help of luminous and non-luminous generators. The non-luminous generators are the ones that emit __
A	IRR only
B	Infrared and X rays
C	IRR and UVR
D	All of the above
E	None of the above
Correct Answer	A
Marks	1

44	Question Description	Suspension therapy works on the principles of
	A	Friction
	B	Pendulum
	C	Gravity eliminating
	D	All of the above
	E	None of the above
	Correct Answer	C
	Marks	1

45	Question Description	1st carpometacarpal joint is
	A	Pivot
	B	Hinge
	C	Ball and socket
	D	Saddle
	E	None of the above
	Correct Answer	D
	Marks	1

46

Question Description	Anatomical dead space is measured by
A	Bohler's method
B	Xenon dilution technique
C	Spirometry
D	Single breath nitrogen test
E	None of the above
Correct Answer	D
Marks	1

47

Question Description	Testing throughout the range in the direction opposite of the muscles rotatory component, the muscles performs a concentric type of contraction called a
A	Break test
B	Resistance check
C	Contractibility test
D	Make test
E	None of the above
Correct Answer	D
Marks	1

48

Question Description	Centre of gravity of adult humans in the anatomical position is slightly
A	Anterior to S1 vertebra
B	Posterior to S1 vertebra
C	Anterior to s2 vertebra
D	Posterior to s2 vertebra
E	None of the above
Correct Answer	C
Marks	1

49

Question Description	Angle of Louis corresponds to
A	T2 – T3 spine
B	T4 – T5 spine
C	T6 – T7 spine
D	T7 – T8 spine
E	None of the above
Correct Answer	B
Marks	1

50

Question Description	Kienbock disease affects
A	Scaphoid
B	Lunate
C	Trapezium
D	Trapezoid
E	None of the above
Correct Answer	B
Marks	1

51

Comprehension**Read the following passage and answer the questions given below:**

Nevertheless, there is a type of literature in which the writer becomes the centre of what he writes. About the end of Middle ages men all over Europe began to awaken to a new fact—that they need no longer go on telling the old stories, preaching the same sermons, singing the same battle-songs. A new sense of freedom and liberty had come to them. The song became the expression of the singer's own feeling, his joy, or sorrow, or love, or hate. History and story had often been put down, strangely and superstitiously often, without a comment or opinion on the part of him who wrote them. Now the writer began to express his own ideas and thought on the matter.

Question Description

The passage implies that at the end of the Middle Ages, writing of songs became more -----than before.

A

objective

B

subjective

C

emotional

D

spontaneous

E

None of the above

Correct Answer

B

Marks

1

52

Comprehension

Read the following passage and answer the questions given below:

Nevertheless, there is a type of literature in which the writer becomes the centre of what he writes. About the end of Middle ages men all over Europe began to awaken to a new fact—that they need no longer go on telling the old stories, preaching the same sermons, singing the same battle-songs. A new sense of freedom and liberty had come to them. The song became the expression of the singer's own feeling, his joy, or sorrow, or love, or hate. History and story had often been put down, strangely and superstitiously often, without a comment or opinion on the part of him who wrote them. Now the writer began to express his own ideas and thought on the matter.

Question Description

“History and story had often been put down, strangely and superstitiously often, without a comment or opinion on the part of him who wrote them. Now the writer began to express his own ideas and thought on the matter”.

The above statement implies that the writing of history and story was now

A revolutionized

B revised

C repealed

D reprised

E None of the above

Correct Answer A

Marks 1

Comprehension

Read the following passage and answer the questions given below:

Nevertheless, there is a type of literature in which the writer becomes the centre of what he writes. About the end of Middle ages men all over Europe began to awaken to a new fact—that they need no longer go on telling the old stories, preaching the same sermons, singing the same battle-songs. A new sense of freedom and liberty had come to them. The song became the expression of the singer's own feeling, his joy, or sorrow, or love, or hate. History and story had often been put down, strangely and superstitiously often, without a comment or opinion on the part of him who wrote them. Now the writer began to express his own ideas and thought on the matter.

Question Description

The passage implies that earlier the writing of history and story was

A

strange and superstitious

B

opinionated

C

commentary like

D

All of the above

E

None of the above

Correct Answer

D

Marks

1

Comprehension

Read the following passage and answer the questions given below:

Nevertheless, there is a type of literature in which the writer becomes the centre of what he writes. About the end of Middle ages men all over Europe began to awaken to a new fact—that they need no longer go on telling the old stories, preaching the same sermons, singing the same battle-songs. A new sense of freedom and liberty had come to them. The song became the expression of the singer's own feeling, his joy, or sorrow, or love, or hate. History and story had often been put down, strangely and superstitiously often, without a comment or opinion on the part of him who wrote them. Now the writer began to express his own ideas and thought on the matter.

Question Description

The shift that came in the world of literature, as detailed in the passage, can be best described as the

A

reformation

B

restriction

C

renaissance

D

revival

E

None of the above

Correct Answer

C

Marks

1

Comprehension

Read the following passage and answer the questions given below:

Nevertheless, there is a type of literature in which the writer becomes the centre of what he writes. About the end of Middle ages men all over Europe began to awaken to a new fact—that they need no longer go on telling the old stories, preaching the same sermons, singing the same battle-songs. A new sense of freedom and liberty had come to them. The song became the expression of the singer's own feeling, his joy, or sorrow, or love, or hate. History and story had often been put down, strangely and superstitiously often, without a comment or opinion on the part of him who wrote them. Now the writer began to express his own ideas and thought on the matter.

Question Description

It can be deduced from the passage that the main subject matter of literary activity in the Middle Ages was

A

history, story and poetry

B

lore, religious sermons and war

C

history, literature and story

D

lore, poetry and history

E

None of the above

Correct Answer

B

Marks

1

56	Question Description	Which organization recently unveiled the MilkyWay tablet in India?
	A	Samsung
	B	Epic Foundation
	C	Apple
	D	Microsoft
	E	None of the above
	Correct Answer	B
	Marks	1

57	Question Description	What is the name of the ChatGPT-style AI service set to be launched by Reliance Industries?
	A	GPTEch
	B	ReliAI
	C	Hanooman
	D	ChatReliance
	E	None of the above
	Correct Answer	C
	Marks	1

58

Question Description	When is World Radio Day celebrated annually?
A	February 10
B	February 13
C	February 16
D	May 8
E	None of the above
Correct Answer	B
Marks	1

59	Question Description	What type of missile is the SAMAR air defence system?
	A	Anti-Tank Missile
	B	Surface-to-Air Missile
	C	Cruise Missile
	D	Air-to-Surface Missile
	E	None of the above
	Correct Answer	B
	Marks	1

60	Question Description	Which company has won the order for setting up Haryana's first ultra-supercritical power plant?
	A	Tata Power
	B	Adani Power
	C	BHEL
	D	Reliance Power
	E	None of the above
	Correct Answer	C
	Marks	1

61	Question Description	Who surpassed Anil Kumble to become India's leading wicket-taker in Tests at home?
	A	Ravichandran Ashwin
	B	Jasprit Bumrah
	C	Ravindra Jadeja
	D	Mohammed Shami
	E	None of the above
	Correct Answer	A
	Marks	1

62	Question Description	Which Indian state has declared the Gupteswar forest as its fourth Biodiversity Heritage Site (BHS)?
	A	Kerala
	B	Odisha
	C	Karnataka
	D	Tamil Nadu
	E	None of the above
	Correct Answer	B
	Marks	1

63	Question Description	What is the purpose of the SWATI Portal launched?
	A	Empower Women in science and technology
	B	Promote environmental sustainability
	C	Enhance global cooperation in education
	D	Support entrepreneurship initiatives
	E	None of the above
	Correct Answer	A
	Marks	1

64	Question Description	In which state will the Prime Minister unveil the 125-foot statue of Bir Lachit Borphukan?
	A	Manipur
	B	Meghalaya
	C	Assam
	D	Tripura
	E	None of the above
	Correct Answer	C
	Marks	1

65

Question Description	Which countries are set to introduce India's Unified Payments Interface (UPI) and RuPay card services on February 12?
A	Bangladesh and Nepal
B	Sri Lanka and Mauritius
C	Nepal and Mauritius
D	Sri Lanka and Bangladesh
E	None of the above
Correct Answer	B
Marks	1

Question Description

Read the given information carefully and answer the questions given beside:

In a family of some persons Bhanu says that Reshma is the daughter of my sister Banti, who is the only daughter of Tamanna. Rahul is the child of Tamanna and Farhan, who is the grandmother of Harish. Krishna is the mother of Mohan, who is the only sister of Harish. Rahul is unmarried.

Which of the following statements is possibly false?

A

Banti is a sister of Rahul.

B

Tamanna is maternal grandfather of Reshma.

C

Harish is a nephew of Rahul

D

Farhan is mother-in-law of Krishna

E

None of the above

Correct Answer

C

Marks

1

67

Question Description

The following questions are based on the two-digit numbers given below:

91 82 64 49 81

If each number is made to increase or decrease to a closest perfect square, which number before change will become the third highest number?

A

64

B

81

C

82

D

59

E

None of the above

Correct Answer

B

Marks

1

68	Question Description	What will be the addition of the third digit from the right end and the fourth digit from the left end of the number '768395241' after arranging all its digits in descending order?
	A	8
	B	12
	C	17
	D	15
	E	None of the above
	Correct Answer	E
	Marks	1

69	Question Description	<p>Select the missing number from the given alternatives:</p> $\begin{array}{ c c } \hline 13 & 16 \\ \hline & ? \\ \hline 11 & 8 \\ \hline \end{array}$ $\begin{array}{ c c } \hline 9 & 7 \\ \hline & 65 \\ \hline 4 & 6 \\ \hline \end{array}$ $\begin{array}{ c c } \hline 15 & 2 \\ \hline & 80 \\ \hline 5 & 6 \\ \hline \end{array}$
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A	48
B	143
C	58
D	128
E	None of the above
Correct Answer	A
Marks	1

70

Question Description	How many such pairs of letters are there in the word “ATTRACTION”, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?
A	One
B	Two
C	Four
D	Three
E	None of the above
Correct Answer	B
Marks	1

71

Question Description

Six books – English, Hindi, Science, Computer, Maths, and Sanskrit each contains different number of pages. Computer book contains fewer pages than only two books. English book contains more pages than Science book but less than Sanskrit book. Science book does not contain least pages. Sanskrit book contains fewer pages than Hindi book. The book which contain third lowest pages contain 28 pages.

If Sanskrit and Computer books contain 89 pages together and Computer and English book contains 63 pages together then what is the number of pages that Sanskrit book contains?

A

63 pages

B

54 pages

C

70 pages

D

57 pages

E

None of the above

Correct Answer

B

Marks

1

Question Description

Read the following information carefully and answer the questions given beside.

“Backlog disc live heavily” is coded as “ 2\$A 4#I 8\$E 12#I ”

“Innocent band actress salute” is coded as ” 2#A 1\$C 9%N 19&A”

“Notify selfish model change” is coded as “14&O 13!O 19\$E 3&H”

“Langer hill external limelight” is coded as “12&A 12@I 8#I 5%X”

Find the code for "Easy goals fulfilled"?

A 5#A 6!O 7@U

B 7\$A 8!O 6@U

C 5#A 7!O 6@U

D 5\$A 7!O 6%U

E None of the above

Correct Answer C

Marks 1

73

Question Description

In each of the following question, there is a certain relationship between two given pair on both side of '::' . One word is given on another side of '::' while another word is to be found from the given options, having the same relation with this word as the words of the given pair . Choose the correct word from the following options.
MAD : JXA :: RUN : ?

A

OSQ

B

PRJ

C

UXQ

D

ORK

E

None of the above

Correct Answer

D

Marks

1

74

Question Description

Select the missing number from the given alternatives:

5	3	6
7	20	?
9	21	17
38	?	47

A 43,32**B** 55,65**C** 43,48**D** 43,55**E** None of the above**Correct Answer** D**Marks** 1

75

Question Description

Eight people A, B, C, D, E, F, G and H are sitting around a circular table but not necessarily in the same order. Some are facing inside and some are facing outside. Not more than two people facing same direction are sitting together.

H sits third to the right of C who is not facing outside. Immediate neighbours of H are facing same directions with respect to each other but opposite direction with respect to H who is facing inside. B is the immediate neighbour of E and both are facing same direction. E sits second to the left of C who is not the immediate neighbour of B. There are equal number of persons facing inside and outside direction. B sits third to the left of A and both are facing opposite directions to each other. H sits to the immediate right of D. F sits second to the left of G.

How many persons are sitting between A and G while counting from left of G?

A	1
B	2
C	3
D	4
E	None of the above
Correct Answer	B
Marks	1