DEPARTMENT OF SCHOOL EDUCATION

Government NEET Coaching-2019-20

MILESTONE - 2

Time: 60 mins

Marks: 240

Instructions:

- 1) Answer all the questions
- 2) For Every correct answer Four marks will be given
- 3) For Every wrong answer One mark will be deducted

CHOOSE THE CORRECT ANSWER

60x4=240

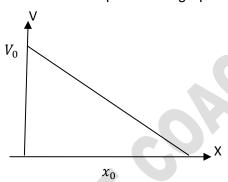
A small block slides without friction, down an inclined plane, starting from rest. Let S_n be the distance 1. travelled from t= (n-1) to t = (n), then $\frac{S_n}{S_{n+1}}$

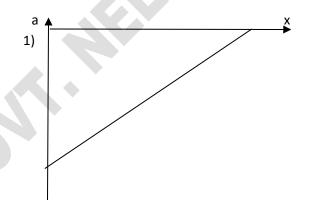
1)
$$\frac{2n-1}{2n}$$

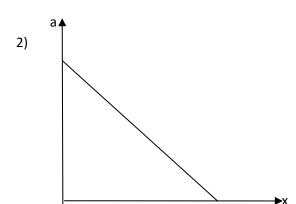
2)
$$\frac{2n+1}{2n-1}$$

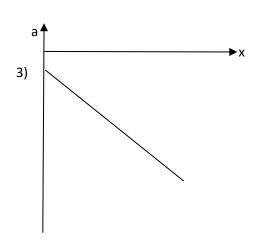
3)
$$\frac{2n-1}{2n+1}$$

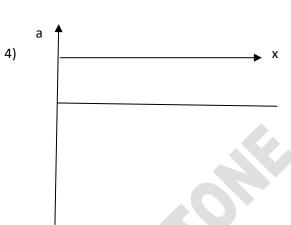
- 2 The velocity – displacement graph of a particle moving along a straight line is shown. The most suitable acceleration displacement graph will be







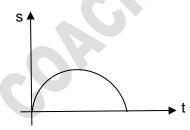




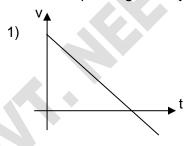
- A bullet fired into a fixed target loses half of its velocity after penetrating 3cm, How much further will it 3 penetrate before coming to rest assuming that it faces constant resistance in motion?
- 2) 1.0 cm
- 3) 3.0 cm
- The velocity of a particle is $V = v_0 + gt + ft^2$. Its position is x=0 at t=0, then its displacement after time 4 (t=1) is

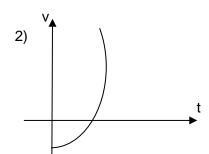
- 1) $v_- + \frac{g}{2} + f$ 2) $v_0 + 2g + 3f$ 3) $v_0 + \frac{g}{2} + \frac{f}{3}$ 4) $v_0 + g + f$ A ball falls from 20 m height on a floor and rebounds to 5m. Time of the conduct is 0.02s. Find 5 acceleration during impact. $[g = 10 \text{ ms}^{-2}]$
 - 1) 1200 ms⁻²
- 2) $1000 \, ms^{-2}$
- 3) $2000 \ ms^{-2}$
- 4) $1500 \ ms^{-2}$

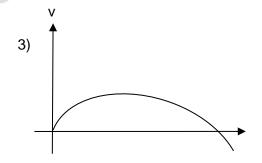
6) The graph of displacement Vs time is

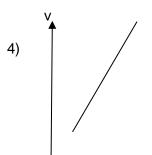


The corresponding velocity – time graph will be









24 The radius of the atom is of the order of

The orbital angular momentum of a 'p' electron is given as

23

	1) 10^{-10} cm	2) 10^{-13} cm	3) 10^{-15} cm	4) 10^{-8} cm				
25	The total spin resulting	_						
	1) $\pm \frac{1}{2}$	2) ± 2	3) \pm 3	4) $\pm \frac{3}{2}$				
26	If ionization energy of 'H' atom is 13.6V than ionization energy of He^+ ion is							
	1) 13.6 ev	2) 27.2 ev	3) 6.8 v	4) 54.4 ev				
27	The quantum number f	or the first electron in a	in atom are n=3, l=1, r	n= -1 the atom is				
	1) Al	2) Si	3) Mg	4) C				
28	Splitting of spectral line	es under the influence of	of electrical field is					
	1) Stark effect	2) Zeeman effect	3) Photo electric effe	ect 4) None of these				
29	What will be the longes	•	•					
	1) 546 nm	2) 656 nm	3) 566 nm	4) 556 nm				
30			n is 1 $X10^{-5}$ kg m/s.	The uncertainty in its position is				
	$h=6.62X10^{-34} kgm^2/s$		0) 4 05 V 10=28	4) 5 05 V 10=28				
31	1) 5.27 X 10 ⁻³⁰ m Find out the incorrect s		3) 1.05 X 10 ⁻²⁸ m	4) 5.25 X 10 ⁻²⁸ m				
31	1) Increase in body ma							
	2) Growth can be taker							
	3) Growth & reproduction							
	4) Growth is a characte	eristic of living systems						
32	Find out the correct pai							
	1) yeast	budding	. ((A)					
	2) Planaria	Fragmentation						
	3) Amoeba	Conidia						
	4) Algae	Regeneration						
33	· •	roduction in seasonal b		animals.				
	affects repr	roduction in seasonal b 2) metabolism	3) photoperiod	4) chemical reaction				
33 34	affects reprint 1) Environment Which one of the follow	roduction in seasonal b 2) metabolism	3) photoperiod					
	affects reprint 1) Environment Which one of the follow mosses?	roduction in seasonal b 2) metabolism	3) photoperiod ticellular fungi, the filar	4) chemical reaction mentous algae & the protonema of				
	affects repr 1) Environment Which one of the follow mosses? 1) mode of nutrition	roduction in seasonal b 2) metabolism	3) photoperiod ticellular fungi, the filar2) Multiplication by fra	4) chemical reaction mentous algae & the protonema of agmentation				
34	affects reprint 2 affects repr	roduction in seasonal b 2) metabolism ving is common to mul	3) photoperiod ticellular fungi, the filar2) Multiplication by fra4) Members of kingdom	4) chemical reaction mentous algae & the protonema of agmentation om plantae				
	affects repr 1) Environment Which one of the follow mosses? 1) mode of nutrition	roduction in seasonal b 2) metabolism ving is common to mul	3) photoperiod ticellular fungi, the filar2) Multiplication by fra4) Members of kingdom	4) chemical reaction mentous algae & the protonema of agmentation om plantae				
34	affects reprint a special problem. 1) Environment Which one of the follow mosses? 1) mode of nutrition 3) Diplontic life cycle Study of diversity of organization.	roduction in seasonal b 2) metabolism ving is common to mul ganisms & their compa 2) Classification	3) photoperiodticellular fungi, the filar2) Multiplication by fra4) Members of kingdorative & evolutionary re	4) chemical reaction mentous algae & the protonema of agmentation om plantae elationship is called				
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34 35	affects reprint a special process of the follow mosses? 1) mode of nutrition 3) Diplontic life cycle Study of diversity of organization at the first state of the fi	roduction in seasonal b 2) metabolism ving is common to mul ganisms & their compa 2) Classification ep is 2) Identification tatement about taxono	3) photoperiod ticellular fungi, the filar 2) Multiplication by fra 4) Members of kingdorative & evolutionary re 3) Systematics 3) Nomenclature	4) chemical reaction mentous algae & the protonema of agmentation om plantae elationship is called 4) Phylogeny				
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34 35 36 37 38	affects reprint a special process of the follow mosses? 1) mode of nutrition 3) Diplontic life cycle Study of diversity of organization of the first states of the first states of the first states of the first out the incorrect states of the first out the incorrect states of the first	roduction in seasonal be 2) metabolism ving is common to multiple ganisms & their compact 2) Classification ep is 2) Identification tatement about taxono trasting characters in nature y can be used for differentiation of both plants & a statement is correct with categories & about 21 is eus who introduced four yely isolated, thus general category gs to family & class Dicotyledonae	3) photoperiod ticellular fungi, the filar 2) Multiplication by fra 4) Members of kingdorative & evolutionary re 3) Systematics 3) Nomenclature mic key ent taxonomic categoranimals the regard to taxonomic intermediate categories ranks	4) chemical reaction mentous algae & the protonema of agmentation om plantae elationship is called 4) Phylogeny 4) Classification ies hierarchy?				

40	Mammals, animals & 1) Same taxa at same 2) same taxa at differe 3) Different taxa at sa 4) Different taxa at different t	e levels ent levels me levels	t		
41	,	out my correct Musca	sequenc	e of class, order & fam	ily
	3) Diptera, Insecta, M	uscidae			
42	4) Insecta, Diptera, Months two components		menclatu	re	
	1) Generic name & sp	ecific epithet			
	2) Generic name & tax3) Taxon & specific ex				
	4) Taxa & taxon				
43			ng charac	cters generally in a pair	
44	1) Dimer serves as o	2) Couplet uick referral sy	/stems in	3) Lead taxonomical studies	4) Taxon
	1) Key	2) Botanical		3) Herbarium	4) Index
45	Match the following &	,	•		,
	A) kew garden			i) Howrah	
	B) Indian Botanical Ga			ii) England	
	c) National Botanical I	Research Instit	ute	iii) New Delhi	
		Α		В	C
	1)	i		iii	ii
	2)	ii		i	iii
	3)	i	C.	ii	iii
	4)	iii		İi	İ
46	Tissue level of Org	anisation is s	seen in		
	1) Coelenterata	2) Porifera	a	3) Platyhelmint	thes 4) Echinodermata
47	When any plane pa	ssing through	h the ce	ntral axis of the boo	dy divides the organism into
	two identical halve	es, the organ	ism is c	alled.	
	1) radially symmetrica	l		2) bilaterally sym	metrical
	3) asymmetrical			4) metamerically	segmented.
48	Match the following ar	nd select the co	orrect ans	swer	
		lumn –l			Volumn –II
	A. Choanocytes			i) Platyhelminthe	es
	B. Cnidoblasts			ii) Ctenophora	
	C. Flame cells			iii) Porifera	
	D. Nephridia			iv) Coelenterata	
	E. Comb plates	2 (i)	C (iv)	v) Annelida D- (v)	E (iii)
		3- (i)	C- (iv)	` ,	E-(iii)
		3- (iv)	C- (i)	D- (v)	E -(iii)
		3- (i)	C - (iii)	D -(ii)	E -(iv)
	4) A- (iii) E	3- (iv)	C- (i)	D- (v)	E- (ii)
19	Closed type of Circula		esent in		
	1. Annelida and Arthro	poda		Arthropoda	and Mollusca

	3. Anr	nelida and cept	nalopoda		4. ľ	Mollusca and Echinode	ermata	
50	Which	one of the foll	owing animal p	hyla, does not p	osses	ss a coelom ?		
	1. Pla	tyhelminthes			2. /	Annelida		
	3.Moll	usca			4. E	Echinodermata		
51	In whi	ch one of the f	ollowing option	ns, the genus, it	s char	acters and phylum are	correctly matched	
			genus			Characters	phylum	
	1.Asc	aris			(ii)	Pseudocoelom Males and females tinct	Aschelminthes	
	2.Tae	nia			(ii)	Endoparasitic flame cells are	Ctenophora	
	3.Hyd	ra			(i) pre	esent Cnidoblasts are esent	Cnidaria	
	4.Nere	eis			(i) (ii)	Triploblastic It is Aquatic It has lateral pendages	Arthropoda	
52	Which	of these state	ments are inco	rrect?				
	(i) (ii) (iii) (iv)	Aschelminthe Bioluminesce		ous rked in ctenoph		d from the Ectoderm		
	1) (i) 8					(iii) & (iv)		
	3) (ii)					(ii) & (iv)		
53			and choose	the Correct opt		(, ()		
			1			II		
	A.	Physalia			i) \$	Sea Anemone		
	B.	Meandrina			(ii)	Brain Coral		
	C.	Gorgonia			(iii)	Sea fan		
	D.	Adamsia				Portuguese man of w	<i>r</i> ar	
	1.	A. (iii)	B (ii)	C (i)	D (iv)			
	2. 3.	A (iv) A(iv)	B(iii) B(ii)	C(ii) C(iii)	D(i) D(i)			
	4.	A (ii)	B (iii)	C (i)	D (iv))		
54	Which	of the followin	g traits is not		sea Ar	nemones and jelly fish?	•	
	1)	A medusa as	the dominant	stage in the life	– cycle	е		
	2)	Possession of	of a gastro vas	cular cavity				
	3)	Sexual reproduction						
	Nematocysts present on the tentacles Identify the correct characteristics of porifera							
55	(i)	-	naracteristics of nown as sea wa	-	(ii)	Presence of Ostia	a and collar cells	

Contains cnidocytes which are used and (iv) only and (v) only one of the following groups of animal Porifera Protozoa elids are metamerically segmented elids are Eucoelomates Both S&R are true and R is the compact of the following represents both maring laria 2) Cephalochordate one of the following is not a character Closed circulatory system Pseudocoelom belongs to a group of animals which is not in the content of the following to a group of animals which is not and in the content of the following is not a character content of the followin	s reprodu 2. 4. orrect ex e correct e and free	2) (i) , (ii) & (iv) ouced only by some Chidaria Ctenophora explanation of the explanatio	sexual means? Sof Sof Sof Sof Sof Sof Sof Sof Sof Sof	
Porifera Protozoa elids are metamerically segmented elids are Eucoelomates Both S&R are true and R is the of Both S&R are true but R is not the S is true but R is not true Both S and R are not true of the following represents both marin laria 2) Cephalochordate one of the following is not a character Closed circulatory system Pseudocoelom belongs to a group of animals which	2. 4. orrect exe correct e and free a 3) stic of ph	ced only by some charge only by some charge only by some charge on the complex of	sexual means? Sof Sof Sof Sof Sof Sof Sof Sof Sof Sof	ata
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Both S and R are not true of the following represents both marin laria 2) Cephalochordate one of the following is not a character Closed circulatory system Pseudocoelom belongs to a group of animals which	a 3) stic of ph 2)	Ctenophora hylum Annelida Segmentatio	4) Echinoderm a? n	ata
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laria 2) Cephalochordate one of the following is not a character Closed circulatory system Pseudocoelom belongs to a group of animals which	a 3) stic of ph 2)	Ctenophora hylum Annelida Segmentatio	4) Echinoderm a? n	ata
Closed circulatory system Pseudocoelom belongs to a group of animals which	2)	Segmentatio	n	
Pseudocoelom belongs to a group of animals which	· · ·			
belongs to a group of animals which	4)	Ventral Nerv	10 00 Hd	
			ve cora	
multicellular with gastro vascular syst		described as		
Multicellular having tissue organization		hody cavity		
Unicellular	ii but iio	body cavity		
Multicellular without any tissue organ	isation			

ANSWER KEY

1	3	16	2	31	2	46	1
2	1	17	3	32	1	47	1
3	2	18	3	33	3	48	4
4	3	19	1	34	2	49	3
5	4	20	4	35	3	50	1
6	1	21	3	36	1	51	1
7	1	22	4	37	3	52	4
8	1	23	1	38	1	53	3
9	3	24	4	39	1	54	1
10	3	25	4	40	4	55	1
11	2	26	4	41	4	56	4
12	2	27	1	42	1	57	2
13	1	28	1	43	2	58	1
14	3	29	2	44	3	59	3
15	4	30	1	45	2	60	4