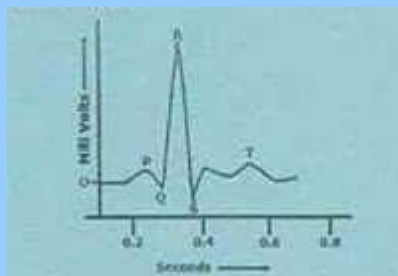


B) Blue

D) Green

BIOLOGY

- 1) Low partial pressure of oxygen in tissues favours _____ of oxyhaemoglobin.
 - a) Dissociation
 - c) Stability
 - b) Formation
 - d) Transformation
- 2) Respiratory tubules are termed as bronchioles when they attain the diameter _____ or lesser:
 - a) 1.2cm
 - c) 1mm
 - b) 1cm
 - d) 1.2mm
- 3) Elastic fibres are absent in the walls of _____:
 - a) Aorta
 - c) Veins
 - b) Arteries
 - d) Capillaries
- 4) A type of blood cell that produces heparin is _____:
 - a) Basophil
 - c) Eosinophil
 - b) Neutrophil
 - d) Monocyte
- 5) Thoracic lymph duct of lymphatic system opens into _____:
 - a) Superior vena cava
 - c) Inferior vena cava
 - b) Subclavian Vein
 - d) Renal vein
- 6) Select the part of nephron which is NOT permeable to water and stops its outflow:
 - a) Glomerulus
 - c) Ascending loop
 - b) Proximal Tubule
 - d) Descending loop
- 7) Vessels which carry blood to the glomerulus are called:
 - a) Efferent arterioles
 - c) Vasa recta
 - b) Renal vein
 - d) Afferent arterioles
- 8) In ECG, QRS wave represents:



- a) Ventricular systole
- c) Diastole

18)

- a) He has decided to grow a beard and a moustache.
- b) He has decided to grow a beard and a moustache.
- c) He has been decided to grow a beard and a moustache.
- d) He have been decided to grow a beard and a moustache. 19)
- a) Their divorce filled a lot of column inches in the national newspaper.
- b) Their divorce filled lot of column inches in the national newspaper.
- c) Their divorce filled a lot of column inches to the national newspaper.
- d) Their divorce filled lot of column inches to the national newspaper.

20)

- a) The horse reared off on its hind legs.
- b) The horse reared off on its hind legs.
- c) The horse reared up on its hind legs.
- d) The horse reared down on its hind legs.

In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate circle on the MCQ response form.

21) CENTENNIAL:

- a) A hundredth anniversary.
- b) Relating to continents.
- c) Relating to sins.
- d) Relating to countries.

- b)Base d)Acid
- 27)During the S_N1 reactions, the fast reaction involves:
- a)Breakage of covalent bond c)Transition state
- b)Formation of carbocation d)Attack of nucleophile
- 28)Alcohol reacts slowly with Na-metal as compared to water because it has low concentration of H^+ ion which suggests that it is:
- a)Less acidic than water c)More acidic than phenol
- b)Less basic than phenol d)More acidic than water
- 29) $CH_3-CH_2-OH+PCl_5 \longrightarrow CH_3-CH_2-Cl+POCl_3+HCl$Formation of HCl is the test for the presence of _____ in a compound:
- a)Alkyl group c)Saturated alkyl group
- b)Hydroxyl group d)Acidic H^+ ion
- 30) $C_2H_5OH+CH_3COOH \xrightarrow{H_2SO_4} ?$ What will be the exact product?
- a)Diethyl ether c)Ethyl acetate
- b)Methyl propyl ether d)Butyl alcohol
- 31) $C_2H_5-SO_3H \xrightarrow{H_2O} C_2H_5-OH+H_2SO_4$ choose the correct type for this reaction from the following:
- a)Reduction c)Hydroxylation
- b)Oxidation d)Hydration
- 32)Ethanol reacts with HCN to form cyanohydrin, it is an example of:
- a)Nucleophilic addition c)Electrophilic substitution
- b)Electrophilic addition d)Nucleophilic substitution
- 33)The reaction of aldehydes and ketones with ammoniacal derivatives $G-NH_3$ to form compounds containing $>C=N-C$ and water is known as _____ reaction:
- a)Nucleophilic addition c)Electrophilic addition
- b)Nucleophilic substitution d)Addition elimination
- 34)Which one of the following compounds will give iodoform test on treatment with aqueous iodine?
- a)3-pentanone c)Propanal
- b)Propanone d)Butanal
- 35)What will be the product of reaction given below:

46) The energy from ultraviolet light is sufficient to break the _____ bonds in CCl_2F_2

- a) Cl–Cl
- b) C–Cl
- c) Cl–F
- d) C–F

47) There are almost 200 million people alive in Pakistan. If you were to distribute Rupees 100 to each Pakistani in the form of 5 Rupee coin, how many moles of coins you must have:

- a) 6.67×10^{-14}
- b) 1.5×10^{-14}
- c) 6.67×10^{14}
- d) 1.5×10^{14}

48) A researcher has prepared a sample of 1-bromopropane from 10 g of 1-propanol. After purification he had made 12 g of product. Which of the following is percentage yield:

- a) 60%
- b) 58%
- c) 90%
- d) 50%

49) Which one of the following has same number of molecules as present in 1 g of CO_2 :

- a) 4 g of O_2
- b) 4.5 g of H_2O
- c) 4 g of Cl
- d) 1/4 moles of NaCl

50) An organic sample consisting of carbon, hydrogen and oxygen was subjected to combustion analysis. 0.543 g of this compound gave 1.039 g of Carbon dioxide, 0.636 g of water vapours. The empirical formula of this compound is:

- a) CH_2O
- b) $\text{C}_4\text{H}_{12}\text{O}_2$
- c) $\text{C}_3\text{H}_6\text{O}$
- d) CH_4O

51) 28 g of N_2 will at STP occupy the volume of:

- a) 22.41 dm^3
- b) 44.82 dm^3
- c) 44.82 cm^3
- d) 2.241 dm^3

52) Study the following graphs of boiling points of some substances

56)XX

57)XX

58)XX

ANSWERKEYS

BIOLOGY

1	a	2	c	3	c	4	a	5	b
6	c	7	d	8	a	9	a	10	c
11	b	12	b	13	a	14	b	15	b
16	d	17	b	18	c	19	a	20	b
21	a	22	d	23	d	24	a	25	c
26	d	27	b	28	d	29	a	30	b
31	d	32	c	33	a	34	b	35	d
36	c	37	a	38	b	39	c	40	c
41	d	42	c	43	a	44	b	45	a
46	a	47	c	48	a	49	b	50	b

51	d	52	d	53	c	54	d	55	d
56	b	57	b	58	a	59	a	60	d
61	a	62	d	63	b	64	d	65	c
66	b	67	a	68	a	69	c	70	a
71	b	72	d	73	d	74	c	75	b
76	c	77	b	78	c	79	d	80	b
81	a	82	c	83	d	84	d	85	a
86	d	87	b	88	d				

PHYSICS

1	b	2	d	3	a	4	c	5	<u>d</u>
6	d	7	c	8	d	9	d	10	<u>c</u>
11	c	12	b	13	c	14	c	15	<u>c</u>
16	c	17	c	18	a	19	b	20	<u>a</u>
21	c	22	a	23	a	24	a	25	<u>b</u>

11	b	12	a	13	d	14	b	15	c
16	a	17	d	18	a	19	b	20	d
21	b	22	a	23	c	24	b	25	d
26	b	27	d	28	a	29	b	30	c
31	d	32	a	33	d	34	b	35	a
36	b	37	d	38	c	39	a	40	b
41	a	42	c	43	a	44	d	45	c
46	b	47	X	48	b	49	b	50	c
51	a	52	c	53	a	54	b	55	X
56	X	57	X	58	X				

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