



BIOLOGY

AAKASH INSTITUTE ENGLISH

MOCK TEST 09 ZOOLOGY



1. Which of the following statements is incorrect regarding circulatory system of fishes?

A. Fishes have two chambered heart with an atrium and a ventricle B. Only deoxygenated blood is pumped through their heart C. Mixing of oxygenated and deoxygenated blood occurs in ventricle D. Oxygenation of blood occurs at gills

Answer: C

2. Which of the following is not a part of circulatory system of human?

A. Heart

- B. Blood vessels
- C. Sinuses
- D. Blood

Answer: C

3. Which of the following is a correct match regarding valves and their respective location? 1) Tricuspid valve (Valves) - Aorta (Location) 2) Mitral valve (Valves) - Between left atrium and left ventricle (Location) 3) Bicuspid valve (Valve) - Between right atrium and right ventricle (Location) 4) Semilunar valve (Valves) - Between left and right atrium (Location) A. Tricuspid valve (Valves) - Aorta (Location)

B. Mitral valve (Valves) - Between left

atrium and left ventricle (Location)

C. Bicuspid valve (Valve) - Between right

atrium and right ventricle (Location)

D. Semiluanr valve (Valves) - Between left

and right atrium (Location)

Answer: B

Watch Video Solution

4. Which of the following structures prevents atrioventricular valves from reverting into atria during ventricular contraction?

- A. Chordae tendine
- B. Purkinje fibers
- C. Bundle of His
- D. Columnae carnae

Answer: A



5. Find the odd one among the following blood vessels w.r.t. the blood (deoxygenated or oxygenated) which is carried by them?

A. Pulmonary artery

B. Pulmonary vein

C. Coronary veins

D. Vena cava

Answer: B

Watch Video Solution

6. Consider the following statements? (a) Before birth, foramen ovale allows the blood to pass from right atrium to left atrium , thus bypassing the pulmonary circulation , (b) Heart is protected by a double walled pericardium, (c) The muscle fibres present in heart are different from smooth muscles in being mesodermal in origin, (d) Nodal tissues like AVN, SAN are specialised neural tissues which are distributed in heart. How many among the statements mentioned above are correct?

A. Two

B. Three

C. One

D. Four

Answer: A

Watch Video Solution

7. Which of the following structures in the normal human heart generates action potential to initiate a cardiac cycle?

A. SA node

B. AV node

C. Purkinje fibres

D. Bundle of His

Answer: A



8. During which of the following of the following events of cardiac cycle, AV valves remain closed?

A. Atrial systole

B. Ventricular systole

C. Ventricular diastole

D. Joint diastole

Answer: B

Watch Video Solution

9. Match the columns : (a) Atrial systole (Column I) (i) 0.7 seconds (Column II) , (b) Joint diastole (Column I) (ii) 0.3 seconds (Columnn II) (c) Ventricular systole (Column I) (iii) 0.1 second (Column II), (d) Atrial diastole (Column

I) (iv) 0.4 seconds (Column II)

A. a(iii) , b(iv), c(ii), d(i)

B. a(iv), b(iii), c(ii), d(i)

C. a(iii), b(iv), c(i), d(ii)

D. a(i), b(ii), c (iii), d(iv)

Answer: A

10. Select the correct statement :

A. Blood flow to the ventricles increases by

70% during atrial systole

B. Decline in ventricular pressure leads to

opening of semilunar valves

C. Amount of blood pumped by ventricles

during a cardiac cyclre is known as

cardiac output

D. Our body hasability to alter stroke

volume as well as cardiac output

Answer: D

Watch Video Solution

11. Rise in ventricular pressure during ventricular systole leads to closure of atrioventricular valves which generates
1) Lub sound

2) Dub sound

- 3) Third heart sound
- 4) Heart murmurs

A. Lub sound

- B. Dub sound
- C. Third heart sound
- D. Heart murmurs

Answer: A



12. Which of the following is correct represntation of flow of action potential through conduction system of heart?

A. AV node to SA node to Bundle of His to

Purkinje fibres

B. SA node to AV node to Purkinje fibres to

Bundle of His

C. AV node to Bundle of His to SA node to

Purkinje fibres

D. SA node to AV node to Bundle of His to

Purkinje fibres

Answer: D



13. Which of the following segments in ECG

represents the end of ventricular systole?

A. Beginning of T-wave

B. End of T-wave

C. S-T segment

D. P-Q segment

Answer: B

Watch Video Solution

14. Which of the following changes in ECG indicates that a person is having a heart attack?

A. Enlargement of P-wave

B. Depressed S-T segment

C. Elevated S-T segment

D. Flat T -wave

Answer: C

Watch Video Solution

15. Which of the following is not a component

of pulmonary circulation?

A. Pulmonary vein

B. Pulmonary artery

C. Aorta

D. Heart

Answer: C

Watch Video Solution

16. The hepatic portal vein carries blood from A to B before it is delivered to systemic circulation. Choose the option which gives the correct description for A and B ? A. Liver (A) Intestine (B)

B. Intestine (A) Liver (B)

C. Liver (A) Heart (B)

D. Intestine (A) Heart (B)

Answer: B

Watch Video Solution

17. Which of the following structures ultimately drains, deoxygenated blood from

heart musculature through coronary vein into

right atrium?

A. Superior vena cava

B. Inferior vena cava

C. Coronary sinus

D. Coronary arteries

Answer: C

18. Select the correct match regarding the effect of autonomic nervous system on stroke volume and cardia output.

A. Parasymp	oathetic	nervous	system
(Autonor	nic neura	l system)	Increase
(Stroke	volume)	Decrease	(Cardiac
output)			

B. Sympathetic nervous system (Autonomic neural system) Increase (Stroke volume) Decrease (Cardiac output)

C. Parasympathetic			nervous	system
(Autonom	nic	neural	system)	Decrease
(Stroke	volume)		Increase	(Cardiac
output)				

D. Sympathetic nervous system (Autonomic

neural system) Increase (Stroke volume)

Increase (Cardiac output)

Answer: D

19. Which of the following hormones will lead to increase in number of QRS complexes in an ECG in a minute?

A. Adrenaline

B. Acetylcholine

C. Nor adrenaline

D. Both (1) & (3)

Answer: D

20. Select the incorrect statement.

A. Renal portal system in absent in mammals B. Medulla oblongata can modulate cardiac function through autonomic nervous system C. Hepatic vein caarries blood from intestine to liver

D. In human, heart beat is initiated by

specialised nodal tissue, hence the heart

is called myogenic

Answer: C

Watch Video Solution

21. Sympathetic nerve edings release nonadrenaline which leads to

A. Increase in rate of heart beat

B. Decrease in speed of conduction of
action potential through heart
musculature
C. Decrease in cardiac output and stroke
volume

D. Increase in stroke volume but decrease

in cardiac output

Answer: A