

II Fill in the blanks

11. _____ is a biphasic wave that has a total duration of 0.5- 1 sec.
12. In steepest descent algorithm the filter parameter h is made as _____
13. To extract fetal ECG the primary input to adaptive filter is provide through single _____
14. Adaptive techniques are used for _____ cancellation
15. Recording sleep stages is called _____
16. There are two forms of the electrical activity: the first is known as an evoked potential the second is an _____ electrical activity.
17. The rate of information transfer of the brain is slow being ten to _____ bits/second.
18. Transients are invariably associate with abnormalities know as _____
19. _____ approximates the wave form by a linear combination of damped exponents.
20. _____ is a non invasive tool for the detection of neurological disorders.

Code No: 56048

Set No. 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

BIOMEDICAL SIGNAL PROCESSING

Objective Exam

Name: _____ Hall Ticket No.

						A				
--	--	--	--	--	--	---	--	--	--	--

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. _____ is a digital technique for separating a repetitive signal from noise []
a) Signal averaging b) Filtering c) Exponential averaging d) Averaging
2. The assumption made in the signal averaging theory is that noise is []
a) Random b) White c) Gaussian d) Flicker
3. In which stage the delta waves exceeding $75\mu\text{v}$ for greater than 50% of the time. []
a) stage-1 b) stage-2 c) stage-3 d) stage-4
4. Number of electrodes used to record mothers ECG in enhancing fetal ECG using ANC is []
a) Abdominal leads b) Chest leads c) Both d) None
5. In contraction of a skeletal muscle, action potentials are generated in the []
a) Brain b) Skeletal muscle c) Nerve lesion d) Motor units
6. For $h(n)$ to converge to its optimal value h_{opt} is []
a) $0 < \mu < 1/R$ b) 1 c) R d) $0 < \mu < R$
7. Prony's spectrum of the prosthetic mitral valve sound is characterized by _____ peaks []
a) 2 b) 3 c) 5 d) 4
8. The _____ algorithm where the mean square error is minimized through the iteration []
a) Steepest gradient b) LMS c) widrow hoff LMS d) both b & c
9. The steady state output of a wiener filter for an Autoregressive process is entirely []
a) Predictable b) Unpredictable c) Fixed d) Known
10. A Wiener filter or a matched filter is an example of a _____ filter []
a) Non-linear b) Fixed c) Transversal d) Adaptive

Cont.....2

II Fill in the blanks

11. Adaptive techniques are used for _____ cancellation
12. Recording sleep stages is called _____
13. There are two forms of the electrical activity: the first is known as an evoked potential the second is an _____ electrical activity.
14. The rate of information transfer of the brain is slow being ten to _____ bits/second.
15. Transients are invariably associate with abnormalities know as _____
16. _____ approximates the wave form by a linear combination of damped exponents.
17. _____ is a non invasive tool for the detection of neurological disorders.
18. _____ is a biphasic wave that has a total duration of 0.5- 1 sec.
19. In steepest descent algorithm the filter parameter h is made as _____
20. To extract fetal ECG the primary input to adaptive filter is provide through single _____

II Fill in the blanks

11. There are two forms of the electrical activity: the first is known as an evoked potential the second is an _____ electrical activity.
12. The rate of information transfer of the brain is slow being ten to _____ bits/second.
13. Transients are invariably associate with abnormalities know as _____
14. _____ approximates the wave form by a linear combination of damped exponents.
15. _____ is a non invasive tool for the detection of neurological disorders.
16. _____ is a biphasic wave that has a total duration of 0.5- 1 sec.
17. In steepest descent algorithm the filter parameter h is made as _____
18. To extract fetal ECG the primary input to adaptive filter is provide through single _____
19. Adaptive techniques are used for _____ cancellation
20. Recording sleep stages is called _____

Code No: 56048

Set No. 4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April – 2014

BIOMEDICAL SIGNAL PROCESSING

Objective Exam

Name: _____ Hall Ticket No.

						A			
--	--	--	--	--	--	---	--	--	--

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I Choose the correct alternative:

1. In contraction of a skeletal muscle, action potentials are generated in the []
a) Brain b) Skeletal muscle c) Nerve lesion d) Motor units
2. For $h(n)$ to converge to its optimal value h_{opt} is []
a) $0 < \mu < 1/R$ b) 1 c) R d) $0 < \mu < R$
3. Prony's spectrum of the prosthetic mitral valve sound is characterized by _____ peaks []
a) 2 b) 3 c) 5 d) 4
4. The _____ algorithm where the mean square error is minimized through the iteration []
a) Steepest gradient b) LMS c) widrow hoff LMS d) both b & c
5. The steady state output of a wiener filter for an Autoregressive process is entirely []
a) Predictable b) Unpredictable c) Fixed d) Known
6. A Wiener filter or a matched filter is an example of a _____ filter []
a) Non-linear b) Fixed c) Transversal d) Adaptive
7. _____ is a digital technique for separating a repetitive signal from noise []
a) Signal averaging b) Filtering c) Exponential averaging d) Averaging
8. The assumption made in the signal averaging theory is that noise is []
a) Random b) White c) Gaussian d) Flicker
9. In which stage the delta waves exceeding $75\mu v$ for greater than 50% of the time. []
a) stage-1 b) stage-2 c) stage-3 d) stage-4
10. Number of electrodes used to record mothers ECG in enhancing fetal ECG using ANC is []
a) Abdominal leads b) Chest leads c) Both d) None

Cont.....2

II Fill in the blanks

11. Transients are invariably associate with abnormalities know as _____
12. _____ approximates the wave form by a linear combination of damped exponents.
13. _____ is a non invasive tool for the detection of neurological disorders.
14. _____ is a biphasic wave that has a total duration of 0.5- 1 sec.
15. In steepest descent algorithm the filter parameter h is made as _____
16. To extract fetal ECG the primary input to adaptive filter is provide through single _____
17. Adaptive techniques are used for _____ cancellation
18. Recording sleep stages is called _____
19. There are two forms of the electrical activity: the first is known as an evoked potential the second is an _____ electrical activity.
20. The rate of information transfer of the brain is slow being ten to _____ bits/second.