SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

Bachelor in Audiology and Speech– Language Pathology

Semester-II September 2023 Examination.

TIME –2.30 Hrs. **MAX MARKS: 80**

Neurology
QP Code : S2320

Your answers should be specific to questions asked.
Draw neat labelled diagrams wherever necessary

Long Essay **2 X 10 = 20 marks**

1. Describe the origin, pathway, branches and functions of the vagus nerve.
2. Discuss the different procedures involved in neurological examination.

Short Essays **6 X 5 = 30 marks**

3. Illustrate, with a neat diagram, the major language areas of the brain.
4. Describe the structure of brain stem and its divisions.
5. Describe the structure of the cerebellum with a neat diagram.
6. Discuss, in brief, the condition of hydrocephalus and its sequel.
7. Discuss the etiopathogenesis of viral encephalitis.
8. What are neurodegenerative disorders? Write a short note on any two such disorders.

Short Answers **10 X 3 = 30 marks**

9. Discuss the clinical and language features associated with Broca's aphasia?
10. What is multiple sclerosis? What effect it has on the speech system.
11. What is Wilson's disease and phenylketonuria?
12. What is agnosia? What is the site of lesion in agnosia? What ar the different types of agnosia.
13. Write a short note on hypoxic ischemic encephalopathy.
14. Write a note on spina bifida.
15. What are the functions of glossopharyngeal and vagus nerve in swallowing?
16. What is hydrocephalus? What causes hydrocephalus?
17. Write about any two neuro imaging methods.
18. What is developmental dysarthria? How is it classified?

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Otolaryngology
QP Code : S2330

Your answers should be specific to questions asked.
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Long Essay **2 X 10 = 20 marks**

1. What are the implantable devices? Discuss candidacy for cochlear implantation.
2. Explain the anatomy of the cartilages of larynx with a neat diagram.

Short Essays **6 X 5 = 30 marks**

3. Describe any two congenital malformations of the external ear.
4. Describe any two disorders of the facial nerve.
5. Describe the different types of presbycusis.
6. Describe the benign tumors of oral cavity.
7. What are the differences between adult and infant larynx.
8. Discuss the causes of esophagitis.

Short Answers **10 X 3 = 30 marks**

9. Draw a neat-labeled diagram of the middle ear cleft.
10. Define temporal bone fracture and mention the types.
11. What is submucous fibrosis? List its causes.
12. List the causes of chronic pharyngitis.
13. Define pharyngeal pouch. What are its clinical features?
14. What causes carcinoma of oral cavity?
15. What are the adjuvant appliances used for managing upper airway obstruction?
16. What are esophageal rings and webs? What is the difference between them?
17. Discuss briefly on the nerve supply of esophagus.
18. What is the relationship between GERD and Barrett's esophagus?

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TIME –2.30 Hrs. **MAX MARKS: 80**

Speech-language Pathology
QP Code : S2340

Your answers should be specific to questions asked.
Draw neat labelled diagrams wherever necessary

Long Essay **2 x 10 = 20 marks**

1. What is stuttering? Discuss the characteristics and assessment of stuttering
2. Give an overview of assessment of language disorders.

Short Essays **6 x 5 = 30 marks**

3. Explain briefly any 5 diagnostic principles given by Darley.
4. Explain the formal approach in speech-language therapy.
5. Enumerate the advantages and disadvantages of individual and group therapy.
6. Explain different strategies for early identification and prevention of speech-language disorders.
7. Discuss the general management procedures for patients with aphasia.
8. Write any 5 professional code of conduct as enunciated by ISHA.

Short Answers **10 x 3 = 30 marks**

9. Write a short note on the Bloom and Lahey model.
10. Define incidence and prevalence
11. How does observation help in diagnosis?
12. Define delay, deviance, and disorder.
13. What is AAC and who uses it?
14. Define ‘goals’ of speech-language therapy.
15. Explain briefly the variables that impact therapy outcomes.
16. Explain the importance of documentation in patient care.
17. Explain the role of a resource teacher.
18. What are the barriers for evidence based practice?

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TIME –2.30 Hrs. **MAX MARKS: 80**

Audiology

QP Code : S2350

Your answers should be specific to questions asked.
Draw neat labelled diagrams wherever necessary

I Long essay **2x10=20 marks**

1 Classify hearing loss on the basis of the part of the ear affected. Discuss each type in terms of causes related to congenital malformations.
2 Describe the factors that could influence information gathering through case history

II Short essay **6x5=30 marks**

3 Discuss the requirements for carrying out speech audiometry including the test environment
4 Describe the following parts of an audiometer and their functions
a) Attenuator b) Interrupter
5 Explain the clinical utility of speech recognition threshold and speech identification scores
6 Compare and contrast artificial ear and artificial mastoid
7 Discuss the rationale behind the frequency range of pure tones used in pure-tone audiometry
8 Explain the different factors to be considered while calculating minimum effective masking level for bone conduction.

III Short answer **10x3=30 marks**

9 What is roll over phenomenon? How do you calculate the roll over index?
10 What are the expected findings from Rinne, Bing and Weber tuning fork test in case of unilateral moderate conductive hearing loss in the right ear?
11 Bone vibrator can be placed on the mastoid or on the forehead. Which is the preferred placement among the two in clinical practice? Justify your answer.
12 What is presbycusis? Mention any two audiological characteristics observed in patients with presbycusis.
13 What is effective masking? Define minimum effective masking level and maximum effective masking level
14 Define UCL. Mention its clinical utility.
15 What is a notched audiogram? Mention two conditions in which notched audiogram is seen
16 Which is the tuning fork frequency routinely used in clinical practice for hearing evaluation? Mention the reasons for using this frequency.
17 How does the duration of stimulus and inter-stimulus interval affect the air conduction testing?
18 Mention different couplers used for objective calibration of transducers.

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TIME –2.30 Hrs. **MAX MARKS: 80**

Electronics and Acoustics

QP Code : S2360

Your answers should be specific to questions asked.
Draw neat labelled diagrams wherever necessary.

Long Essay **2 X 10 = 20 marks**

1. Explain the steps to be followed to arrive at the type of materials to be used for acoustic treatment while converting an existing room to an audiometric test room. .
2. Why do audiometers go out of calibration? How will you ensure that the audiometer is calibrated?

Short Essays **6 X 5 = 30 marks**

3. Explain how the transformer works in step up and step down modes.
4. Which are the parameters with which the efficiency of a DC power supply is found? Explain each of these parameters
5. Explain how reflection, diffraction and transmission of sound waves occur when it encounters an obstacle in its path.
6. Define the frequency response, gain and bandwidth of an amplifier. Explain each of these.
7. Explain how special earthing is done. How is it different from normal earthing?
8. Explain the technology with which pure tone is generated and controlled in an audiometer.

Short Answers **10 X 3 = 30 marks**

9. How do you convert a speech signal in time domain to frequency domain?
10. Can sound propagate in media other than air? Why?
11. Differentiate a simple tone and a complex tone.
12. On the basis of Sabine's formula, explain the methods to reduce reverberation time.
13. List out the applications of automatic speech recognition in the field of communication disorders.
14. Define zero crossing rate. How is it related to the fundamental frequency of speech signal?
15. Briefly explain the two different purposes for which filters are used in signal processing.
16. How an electrode placed on the surface of the skull picks up the change in potentials at the neurons?
17. State the limitations of a finite impulse response (FIR) filter.
18. Mention one application each of a thyristor and a transistor.

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