

**Sri Devaraj Urs Academy of Higher Education & Research
(A Deemed to be University)**

**Bachelor of Audiology & Speech-language Pathology
Second Year Semester-III March 2022 Examinations**

Time: 3 Hours

Max. Marks: 80

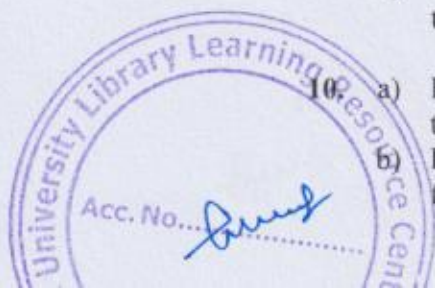
Voice and its disorders

QP. Code: S3100

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

- | | | | | |
|-------------|-----|----|--|-----|
| I | 1. | a) | How is pitch change achieved? Highlight the importance of acoustical analysis of voice. | 4+4 |
| | | b) | Explain the process of amplification and dampening of resonant frequencies. | 8 |
| (OR) | | | | |
| | 2. | a) | Explain the different voice registers and voice quality. Is there a relationship between the two? If yes, how? | 6+2 |
| | | b) | Compare and contrast between the neurochronaxic theory and myo-elastic-aerodynamic theory of voice production. | 4+4 |
| II | 3. | a) | What is vocal cord paralysis? Explain the different types of vocal cord paralysis and their causes. | 2+6 |
| | | b) | Discuss the classification of voice based on etiology. | 8 |
| (OR) | | | | |
| | 4. | a) | Elaborate on the voice problems seen in transgender people. | 8 |
| | | b) | Explain the signs and symptoms seen in hyper functional voice disorders. | 8 |
| III | 5. | a) | Explain the parameters of perceptual evaluation of voice. | 8 |
| | | b) | Discuss the role of instrumentation in voice evaluation. | 8 |
| (OR) | | | | |
| | 6. | a) | Define stroboscopy. Explain the procedure involved and the parameters measured. | 2+6 |
| | | b) | Discuss the different acoustic parameters considered in voice evaluation. | 8 |
| IV | 7. | a) | Describe the vocal hygiene program for professional voice users. | 8 |
| | | b) | Describe any two therapy techniques to improve voice in unilateral adductor vocal fold paralysis. | 8 |
| (OR) | | | | |
| | 8. | a) | Describe the rationale and procedural steps for vocal function exercises and semi-occluded voice therapy. | 4+4 |
| | | b) | Explain the rationale behind setting goals and approaches in voice therapy. | 8 |
| V | 9. | a) | Explain the importance of documenting voice therapy outcomes. Describe the usefulness of this information in counselling clients with benign vocal fold lesions. | 4+4 |
| | | b) | What are the various clinical management approaches / techniques for vocal cord paralysis? | 8 |
| (OR) | | | | |
| | 10. | a) | Explain any 3 voice therapy techniques for a person with muscle tension dysphonia. | 8 |
| | | b) | Describe the different treatment strategies for a person with functional aphonia. | 8 |



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Speech Sound Disorders

QP. Code: S3110

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

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|-----------|-----|----|---|-------|
| I | 1. | a) | Discuss the linear theories of phonological development. | 8 |
| | | b) | Write an essay on co articulation focusing on the types and their effects. | 8 |
| OR | | | | |
| | 2. | a) | Describe the acoustic features of consonants. | 8 |
| | | b) | Describe the articulatory phonetics of fricative and nasal consonants. | 8 |
| II | 3. | a) | What factors influence phonological development? Discuss | 8 |
| | | b) | Discuss the different causes of speech sound disorders. | 8 |
| OR | | | | |
| | 4. | a) | Describe any 4 tests used for assessment of articulation and phonological processes. | 8 |
| | | b) | Write short notes on | 4 + 4 |
| | | | i) Rhotacism | |
| | | | ii) Lipping | |
| III | 5. | a) | Describe any 5 phonological processes. Give suitable examples from your language. | 8 |
| | | b) | Why do we need to do assessment of oral peripheral mechanism in evaluating misarticulation? | 8 |
| OR | | | | |
| | 6. | a) | Describe the suitability of independent analysis method in the assessment of speech sound disorders. | 8 |
| | | b) | Describe the instruments that are used in the assessment of articulation disorders. | 8 |
| IV | 7. | a) | Write short notes on | 4 + 4 |
| | | | i) Phonetic placement approach | |
| | | | ii) PROMPT approach | |
| | | b) | Describe the general guidelines used in motor based treatment approaches. | 8 |
| OR | | | | |
| | 8. | a) | Discuss the basic principles and considerations that guide our therapeutic approach for children with speech sound disorders. | 8 |
| | | b) | Describe the traditional treatment approaches for speech sound disorders. | 8 |
| V | 9. | a) | Compare and contrast between core vocabulary and distinctive feature approaches for management of speech sound disorders. | 8 |
| | | b) | Write short notes on | 4 + 4 |
| | | | i) Metaphone therapy | |
| | | | ii) Minimal pair contrast therapy | |
| OR | | | | |
| | 10. | a) | What is team approach in the management of speech sound disorders in children? What is role of family members in the team? | 8 |
| | | b) | Describe the intervention approaches for individuals from culturally and linguistically diverse background. | 8 |

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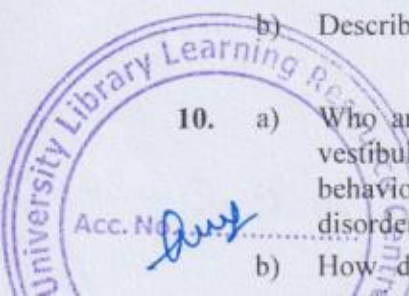
Diagnostic Audiology: Behavioural tests

QP. Code: S3120

Your answers should be specific to questions asked.

Draw neat labelled diagrams wherever necessary

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|-----------|-----|----|---|-----------|
| I | 1. | a) | Describe the factors that determine selection of different tests in a test battery for hearing evaluation? Justify the selection of each test. | 8 |
| | | b) | What is a diagnostic test? What are the characteristics of a good diagnostic test, and why? | 2+6 |
| OR | | | | |
| | 2. | a) | What is cross check principle? Justify the need for cross check in clinical diagnosis with a suitable example | 2+6 |
| | | b) | Describe, in brief, the terms sensitivity, specificity, hit rate and miss rate. | 2+2+2+2 |
| II | 3. | a) | What is adaptation? Describe the physiological basis of adaptation | 2+6 |
| | | b) | Explain how Bekesy audiometry can be used in the differential diagnosis of CP and RCP | 8 |
| OR | | | | |
| | 4. | a) | Describe the different types of recruitment with the help of a laddergram | 8 |
| | | b) | Briefly describe the following two tests used for differentiating between cochlear and retro-cochlear pathology
i) Brief tone audiometry
ii) Glycerol test | 4+4 |
| III | 5. | a) | What are the different tests available to identify functional hearing loss in children? Explain any one test, in detail, with its advantages and disadvantages. | 2 + 6 |
| | | b) | Audiogram of a 41 year old female shows profound hearing loss in both the ears.
i) Describe a speech test that can be used to rule out functional hearing loss in this subject.
ii) List the merits and demerits of the test. | 6 + 2 |
| OR | | | | |
| | 6. | a) | How do you identify a person with pseudohypacusis without doing formal tests? | 8 |
| | | b) | Explain the rationale, procedure and interpretation of Doerfler – Stewart test. | 8 |
| IV | 7. | a) | Define CAPD. Write the behavioral and clinical indicators of CAPD | 2+6 |
| | | b) | Explain any two monaural low redundancy tests to identify CAPD | 4 + 4 |
| OR | | | | |
| | 8. | a) | Describe in detail the subtlety and bottle neck principle | 4 + 4 |
| | | b) | What are the test findings in a person with brainstem lesion on the following tests? Explain with reasons:
a) MLD b) SSI-CCM and SSI-ICM
c) Low pass filtered speech test d) Pitch pattern test | 2+2+2+2 |
| V | 9. | a) | Describe in detail the audiological assessment of tinnitus using behavioural measures | 8 |
| | | b) | Describe the structure and function of the vestibular system | 8 |
| OR | | | | |
| | 10. | a) | Who are the team members involved in the assessment and management of vestibular disorders? Discuss the role of an audiologist in the team. What behavioural measures can an audiologist assess in persons with vestibular disorders? | 2 + 3 + 3 |
| | | b) | How do you classify the severity of hyperacusis? Write a note on the | 4 + 4 |



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Amplification Devices

QP. Code: S3130

Your answers should be specific to questions asked.

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|-----------|-----|---|-------|
| I | 1. | a) Write in detail about the different types of amplifiers, cords & batteries used in hearing aids. | 8 |
| | | b) Explain the functioning of a digital hearing aid. | 8 |
| OR | | | |
| | 2. | a) How do classify hearing aids? Discuss the different classificatory systems. | 8 |
| | | b) Write short notes on: <ul style="list-style-type: none"> i) Body level hearing aids ii) Master hearing aids | 8 |
| II | 3. | a) Write short notes on: <ul style="list-style-type: none"> i) Extended low frequency ii) Peak clipping | 4 + 4 |
| | | b) Write short notes on: <ul style="list-style-type: none"> i) Cross hearing aid ii) Wide dynamic range compression | 4 + 4 |
| OR | | | |
| | 4. | a) Describe, in detail, any two techniques of frequency lowering in hearing aids. | 8 |
| | | b) Describe input and output compression with a neat block diagram. | 8 |
| III | 5. | a) What information would you give on ear mold and battery for a person who has a BTE hearing aid, and why? | 8 |
| | | b) Explain the instrumentation required for electroacoustic measurement. Draw a block diagram of the instrumentation setup. | 8 |
| OR | | | |
| | 6. | a) Explain briefly the two electro-acoustic parameters that are measured with volume control set at RTG position. | 8 |
| | | b) How do you counsel an elderly individual regarding care and maintenance of hearing aid? | 8 |
| IV | 7. | a) Describe the hardware and steps involved in programming a hearing aid. | 8 |
| | | b) Describe the factors needed to be considered while choosing hearing aids for geriatric population. | 8 |
| OR | | | |
| | 8. | a) Write briefly on the audiological and non-audiological factors that you would consider while selecting a hearing aid. | 8 |
| | | b) Discuss the utility of immittance, OAE and AEP's in the selection of hearing aid. Justify your answer. | 8 |
| V | 9. | a) Describe step-wise procedure of taking ear impression. What instructions will you give to the client? | 8 |
| | | b) Describe the step-wise procedure in making soft ear mold. | 8 |
| OR | | | |
| | 10. | a) What are the various modifications done to an earmolds? What is their effect on acoustic characteristics? | 8 |
| | | b) Describe the step-wise procedure for making hard ear mold. | 8 |

