Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VII

Course Code: ETC701and Course Name: Image and Video Processing

Time: 1hour Max. Marks: 50

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**SAMPLE MCQ**

Note to the students:- All the Questions are compulsory and carry equal marks .

|  |  |
| --- | --- |
| **1.** | One that is not the field of x-ray band |
| a. | Industry |
| b. | Astronomy |
| c. | Radar |
| d. | Medical diagnoses |
|  |  |
| 2. | A star in the constellation of Cygnus exploded about |
| a. | 15050 years ago |
| b. | 16000 years ago |
| c. | 16050 years ago |
| d. | 15000 years ago |
|  |  |
| 3. | Middle infrared light is used in |
| a. | mineral mapping |
| b. | soil moisture |
| c. | water penetration |
| d. | vegetation discrimination |
|  |  |
| 4. | Ultraviolet light is used in |
| a. | law enforcement |
| b. | Radar |
| c. | nuclear medicine |
| d. | fluorescence microscopy |
|  |  |
| **5.** | Imaging in geological exploration, industry and medicine uses |
| **a.** | Audio |
| **b.** | Sound |
| **c.** | Sunlight |
| **d.** | Ultraviolet |
|  |  |
| **6.** | Major application of contrast-enhancement radiography is |
| **a.** | Industry |
| **b.** | astronomical observations |
| **c.** | Angiography |
| **d.** | Lithography |
|  |  |
| **7.** | The principle energy source for images |
| **a.** | electrical spectrum |
| **b.** | magnetic spectrum |
| **c.** | electro spectrum |
| **d.** | Electro-magnetic spectrum |
|  |  |
| **8.** | Image enhancement and restoration are used to process |
| **a.** | high resolution images |
| **b.** | degraded images |
| **c.** | high quality images |
| **d.** | brighter images |
|  |  |
| **9.** | The dominant application of microwave in image processing is |
| **a.** | Medicines |
| **b.** | Radar |
| **c.** | lens enhancement |
| **d.** | medical diagnoses |
|  |  |
| **10.** | Which one is not the area of digital image processing |
| **a.** | law enforcement |
| **b.** | Lithography |
| **c.** | Medicine |
| **d.** | voice calling |
|  |  |
| **11.** | An image is a two dimensional function where x and y are |
| **a.** | spatial coordinates |
| **b.** | frequency coordinates |
| **c.** | time coordinates |
| **d.** | real coordinates |
|  |  |
| **12.** | Electromagnetic visible spectrum ranges from |
| **a.** | 400-700nm |
| **b.** | 600-900nm |
| **c.** | 400-700pm |
| **d.** | 600-900pm |
|  |  |
| **13.** | Intensity levels in 8bit image are |
| **a.** | 128 |
| **b.** | 255 |
| **c.** | 256 |
| **d.** | 512 |
|  |  |
| **14.** | In an image accentuating a specific range is called |
| **a.** | Slicing |
| **b.** | color slicing |
| **c.** | Cutting |
| **d.** | color enhancement |
|  |  |
| **15.** | RGB colors on internet applications are called |
| **a.** | safe colors |
| **b.** | colors space |
| **c.** | web colors |
| **d.** | safe web colors |
|  |  |
| **16.** | Black color in image processing is usually represented by the |
| **a.** | 0 |
| **b.** | 1 |
| **c.** | 255 |
| **d.** | 256 |
|  |  |
| **17.** | For HSI color space, no of transformations will be |
| **a.** | n = 2 |
| **b.** | n = 3 |
| **c.** | n = 4 |
| **d.** | n = 5 |
|  |  |
| **18.** | Hue and saturation, both together produce |
| **a.** | Brightness |
| **b.** | Transitivity |
| **c.** | Chromaticity |
| **d.** | Reflectivity |
|  |  |
| **19.** | Image can be blurred using |
| **a.** | low pass filter |
| **b.** | Contouring |
| **c.** | Erosion |
| **d.** | high pass filter |
|  |  |
| **20.** | Image can be sharpened using |
| **a.** | low pass filter |
| **b.** | Contouring |
| **c.** | Erosion |
| **d.** | high pass filter |
|  |  |
| **21.** | White color in a Cartesian coordinate system can be represented as |
| **a.** | (0,1,1) |
| **b.** | (0,1,0) |
| **c.** | (0,0,1) |
| **d.** | (1,1,1) |
|  |  |
| **22.** | Transformation set is also called |
| **a.** | color mapping functions |
| **b.** | color space |
| **c.** | Chromaticity |
| **d.** | Cartesian coordinate system |
|  |  |
| **23.** | Gaussian noise is referred to as |
| **a.** | red noise |
| **b.** | black noise |
| **c.** | white noise |
| **d.** | normal noise |
|  |  |
| **24.** | Convolution in spatial domain is multiplication in |
| **a.** | frequency domain |
| **b.** | time domain |
| **c.** | spatial domain |
| **d.** | Plane |
|  |  |
| **25.** | Linear functions possesses the property of |
| **a.** | Additivity |
| **b.** | Homogeneity |
| **c.** | Multiplication |
| **d.** | Subtraction |
|  |  |