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2025

GOA BOARD QUESTION PAPERS

2024
Question Papers

Prepare yourself for upcoming Goa Board Exams

2024 IV 13 **0930** **Seat No.** | | | | | |

Time : 1½ Hours

TELECOMMUNICATION
(NSQF)

Subject Code

S	1	0	8	5

Total No. of Questions : 4 **(Printed Pages : 8)** **Maximum Marks : 40**

INSTRUCTIONS : (*i*) Answer each question on a fresh page.

(*ii*) Write the question number and sub-question number clearly.

(*iii*) *All* questions are compulsory.

(*iv*) Figures to the right indicate full marks.

1. (A) Select and write the most appropriate alternative given below each statement and rewrite complete statement : 3

(1) The 7 C's of effective communication "clear" indicates ..... .

- to use exact words and facts
- to be clear about what you say
- to use simple words
- to use correct spelling and grammar

(2) The component in the communication cycle which converts the readable data to unreadable data is ..... .

- Sender
- Encoding
- Channel
- Decoding

(3) Identify the type of sentence :

"Wow! What a beautiful house."

The sentence is ..... .

- Declarative sentence
- Imperative sentence
- Interrogative sentence
- Exclamatory sentence

(4) The example of non-verbal communication is ..... .

- Face to face communication
- Talking on the phone
- Body language
- Group discussion

(5) The ability to handle or minimize the physical and emotional effect of stress is ..... .

- Self-management
- Self-regulation
- Stress management
- Self-awareness

(6) The force that makes you complete work without others cheering you is ..... .

- Self-confidence
- Communication
- Self-motivation
- Self-esteem

(B) Answer the following questions in **2-3** sentences each : 4

(1) Write any *two* importance of feedback.

(2) List any *two* characteristics of a successful entrepreneur.

(C) Answer the following questions in *one* sentence each : 3

(1) Define Multiplexing.

(2) Give the term for the following sentence :

"The reduction in intensity of the light beam with respect to distance travelled through a transmission medium"

(3) What do you understand by aerial cabling ?

2. (A) Do as directed : 3

(1) Compare the co-ordination in first pair and complete the second pair :

(*i*) Striping : Stripper : : Cleaving : .....

(*ii*) LC connector : Ideal for high density connector : : SC connector : .....

(2) Give single term for the following definition :

(*i*) The change in direction of a wave passing from one medium to another.

(*ii*) The process of permanently joining two fibers together.

(3) Match the following items in column A with correct items in column B and write the correct pair :

Column 'A'	**Column 'B'**
(*i*) Power meter	(*a*) used to cleave the optical fiber
(*ii*) Messenger wire	(*b*) used to test the optical fiber
	(*c*) used to prevent sagging optical fiber
	(*d*) used to harden an epoxy

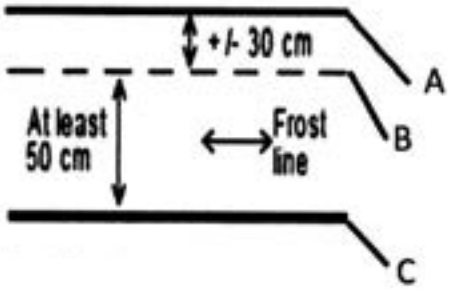
(B) Answer the following questions in **2-3** sentences each : 4

(1) Mention the *three* steps followed for route inspection.

(2) Explain the need and importance of splicing.

(C) Answer the following questions in one line based on the figure given below : 3

Trenching precaution diagram:



(1) According to the trenching precaution diagram where is cable warning tape placed ?

(2) What should be estimated the distance between soil and cable warning tape ?

(3) What should be estimated the distance between cable warning tape and cable ?

3. (A) Select and write the most appropriate alternative given below each statement and rewrite complete statement : 3

(1) The need of a fiber optic inspection microscope is ..... .

- Used to cut fiber jacket/buffer tubes
- Used to clean up connectors
- Used to inspect connectors
- Used to cure epoxy polish connectors

(2) The proper order followed for visual connector inspection is ..... .

(1) Observe the connector

(2) Clean the connector

(3) Inspect the connector

- (1), (2), (3)
- (2), (3), (1)
- (3), (1), (2)
- (3), (2), (1)

(3) If you want the data in ascending or descending order, the option you would go for ..... .

- Text wrapping
- Sort and filter
- Header and footer
- Merge cells

(4) The shortcut keys used to cut a file is ..... .

- Ctrl + C
- Ctrl + X
- Ctrl + Z
- Ctrl + P

(5) Sneha created a file in Notepad and saved the file by name "hello" so the complete name of file will be ..... .

- hello.doc
- hello.docx
- hello.txt
- hello.jpg

(6) Press ..... to select all files.

- Ctrl + S
- Ctrl + A
- Ctrl + D
- Ctrl + P

(B) Answer the following questions in **2-3** sentences each : 4

(1) Explain the functioning of an OTDR.

(2) State the difference between FC connector and ST connector.

(C) Answer the following questions in *one* sentence each : 3

(1) How is continuity check performed using visual fault locator ?

(2) Mention *one* precaution to be followed while using laser light.

(3) State *one* precaution taken during installation of OFC.

4. (A) Do as directed : 3

(1) State the following whether true or false :

(*i*) Sustainable development is taking care of ourselves and the future generations.

(*ii*) The way to practice sustainable living at personal level is by plugging on device when not in use.

(2) Give single term for the following definition :

(*i*) The method of sending information from one place to another by sending pulses of light.

(*ii*) A passive device which terminates cables, allowing arbitrary connections to be made.

(3) Match the following items in column A with correct items in column B and write the correct pair :

Column A		**Column B**	
(*i*)	Blowing method	(*a*)	used for straight duct route
(*ii*)	VFL	(*b*)	used for duct route with multiple bends
		(*c*)	used to clean up fiber
		(*d*)	used to detect the bends, fault in the fiber

(B) Answer the following questions in **2-3** sentences each : 4

(1) Briefly write a note on Trenching process.

(2) State the features of good connector design.

(C) Answer the following questions in *one* sentence each : 3

(1) How to make sure that each splice is a good splice ?

(2) How will you address the environment storage issue of the cable drum ?

(3) Why you must handle optical fiber carefully ?

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