

**BA ADMINISTRATION AND GOVERNANCE
SIXTH SEMESTER
TECHNOLOGIES IN EVERYDAY LIFE
BAAG – 606**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1 × 10 = 10

1. "India Techade Vision" is related to which technology?
 - a. Nanotechnology
 - b. Biotechnology
 - c. Artificial Intelligence
 - d. Nuclear Technology

2. Consider the following statements with respect to Generative AI Technologies
 - 1) The nature of data of Chat GPT is mostly text.
 - 2) DALL-E and DALL-E 2 are tools that produce music based on textual prompts.Choose the correct code:
 - a. 1 only
 - b. 2 only
 - c. Both 1 & 2
 - d. Neither 1 nor 2.

3. Which of the following areas can have the applications of AI?
 - 1) Smart Agriculture
 - 2) Education and Skill Development
 - 3) Tourism
 - 4) Financial Inclusion
 - 5) Logistics ManagementChoose the correct code:
 - a. 1,3,4
 - b. 1,3,4,5
 - c. 2,4,5
 - d. 1,2,3,4,5

4. Consider the following statements with respect to the Intellectual Property Rights:
 - 1) A Patent is granted for an invention i.e a new product or process.
 - 2) A product, to get a patent needs to meet the conditions of Novelty and Non Obviousness only.Choose the correct code:
 - a. 1 only
 - b. 2 only
 - c. Both 1 and 2
 - d. Neither 1 nor 2

5. Consider the following statements with respect to the "Patent Act"
- 1) Section 3(d) of the act prevents ever greening of patents on frivolous grounds.
 - 2) Section 84 of the act provides for compulsory licensing.
- Choose the correct code:
- a. 1 only
 - b. 2 only
 - c. Both 1 & 2
 - d. Neither 1 nor 2
6. Titanium Oxide and Zinc Oxide Nanoparticles helps:
- a. To block UV radiations.
 - b. To make films on glasses, computers etc.
 - c. In targeted drug delivery.
 - d. In medical imaging.
7. Which one of the following is not a Fissile Material?
- a. U-233
 - b. U-238
 - c. U-235
 - d. Pu-239
8. Consider the following statements regarding "Chandrayaan 3".
- 1) The spot where the Chandrayaan 3 Vikram lander made a soft landing is named as Shiv Shakti Point.
 - 2) The Pragyan rover confirmed the presence of Sulphur on the lunar surface of the South Pole.
- Choose the correct code:
- a. 1 only
 - b. 2 only
 - c. Both 1 & 2
 - d. Neither 1 nor 2
9. Match the following:
- | <u>Disease</u> | <u>Causative Organism</u> |
|----------------|----------------------------|
| Typhoid | Plasmodium |
| Tuberculosis | Mycobacterium tuberculosis |
| Ebola | Virus |
| Malaria | Salmonella Tyhpi |
- Choose the correct code:
- a. Only 1 pair correct
 - b. 3 pairs correct
 - c. 2 pairs correct
 - d. All pairs correct
10. The virus H5N1 is:
- a. Swine Influenza
 - b. Avian Influenza
 - c. Chicken Pox
 - d. Small Pox

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(Descriptive)

Time : 1 Hr. 15 Mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. Explain the role of AI in Governance and Public Services. | 5 |
| 2. Write about the rise of India's Drone Industry. | 10 |
| 3. Discuss the various types of Intellectual Property Rights. Also mention the acts that they are governed by in India. | 10 |
| 4. Briefly discuss the applications of Biotechnology. | 10 |
| 5. The creation of the Indian National Space Promotion and Authorization Centre (IN-SPACe) will provide a level playing field for private companies to use Indian space infrastructure. Discuss. | 10 |

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