



# BIOLOGY

## NEET & AIIMS

### MOCK TEST 37

#### Example

1. The optimum pH of culture medium used in  
inoculation culture should be

A. 5.2

B. 5.7

C. 7.5

D. 7

**Answer: B**



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2. In tissue, culture, shoot and root regenerations are generally controlled by

A. Changing the amount of gibberellin

B. Auxin-cytokinin balance

C. Ethylene-ABA balance

D. The process of subculturing

**Answer: B**



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**3. Pomato is the result of**

A. Autopolyploidy

B. Genetic mutation

C. Protoplast fusion

D. Inter varietal hybridisation

**Answer: C**



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4. In somatic hybridization, plant cells are treated with pectinase and cellulase to

A. Remove the nucleus from the cell

B. Dissolve the cell wall

C. Fuse the nucleus of two cells

D. Remove the plasma membrane

**Answer: B**



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5. Which of the following is an outcome of fungal activity?

A. Swiss cheese

B. Toddy

C. Curd

D. Streptomycin

**Answer: B**



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**6.** Apical and axillary meristem are free of virus due to (i) concentration of (ii) and rapid rate of cell division. Select the correct option to an in the blanks (i and (ii).

A. (i) Low, (ii) Cytokinins

B. (i) Low, (ii) Gibberellins

C. (i) High, (ii) Auxins

D. (i) High, (ii) Abscisic acid

**Answer: C**



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7. Which of the following is not an application of plant tissue culture?

- A. Propagation of a large number of plants  
in very short durations
- B. Changing the ploidy of plant
- C. Producing plants which are genetically  
identical to the parent plant
- D. Recovery of healthy plants from the  
diseased plants

**Answer: B**



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8. Resistance to tongro virus and leaf hopper in rice is developed by

- A. Genetic engineering
- B. Tissue culture
- C. Changing in chromosome number
- D. Cross breeding

**Answer: B**



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9. Select the odd one w.r.t petroleum plants

A. Trifolium

B. Jatropha

C. Hevea

D. Euphorbia

**Answer: A**



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**10.** In single cell protein, care has to be taken to remove

A. Excess nucleic acids

B. Fats

C. Heavy metals

D. Both (1) & (3)

**Answer: D**



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11. Statins commercialised as blood cholesterol lowering agent are produced by

- A. Yeast - *Monascus purpureus*
- B. Bacterium - *Monascus purpureus*
- C. Fungus - *Trichoderma polysporum*
- D. Bacterium - *Streptococcus*

**Answer: A**



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12. Select the odd one out w.r.t. drinks with high alcohol concentration.

A. Whisky

B. Brandy

C. Rum

D. Wine

**Answer: D**



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**13.** Which one of the following is mismatched?

<b>Alcohol</b>	<b>Substrate used</b>
(1) Wine	Fruit juices
(2) Vodka	Potato
(3) Gin	Molasses
(4) Whisky	Fermented cereals



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**14.** Which one of the following is used as an immunosuppressive agent in organ-transplant patients?

A. Statins

B. Cyclosporin A

C. Amylase

D. Streptokinase

**Answer: B**



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**15.** Which of the following enzyme is used as a "clot buster" for removing clots from the blood vessels of patient who have undergone myocardial infarction leading to heart attack ?

A. Streptokinase

B. Pectinase

C. Protease

D. Cyclosporin A

**Answer: A**



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**16.** Fruit juices are clarified by the use of enzymes like



A. Amylase, Lipase

B. Lipase, Protease

C. Pectinase, protease

D. Zymase, Lipase

**Answer: C**



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**17.** How many of the following microbial products are produced by bacteria? Citric acid,

Butyric acid, Lactic acid, Gluconic acid, Acetic acid

A. Two

B. Four

C. Five

D. Three

**Answer: D**



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18. Biogas includes all of the following, except



**Answer: D**



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**19.** Select the correct statement regarding sewage and its treatment

A. Sedimentation is preceded by sequential filtration

B. BOD of waste water is inversely proportional to its pollution potential

C. Secondary treatment is a physico chemical process

D. Biological treatment is performed on primary effluent

**Answer: D**



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**20.** The ministry of environment and forests has initiated 'Ganga Action Plan' in

A. 1980

B. 1985

C. 1945

D. 2001

**Answer: B**



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**21.** The technology of biogas production was developed in India due to the efforts of

A. IARI

B. KVIC

C. NBRI

D. All except C

**Answer: D**



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**22.** Cattle dung is commonly used for biogas production because (a) Cattle dung is a rich source of methanogens (b) It has large amount of cellulose as cattle are herbivores (c)

It is easily available in large quantities in rural areas

A. (a) & (b)

B. (a) & (c)

C. (b) & (c)

D. (a) (b) & (c)

**Answer: B**



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23. Dragonflies are useful to get rid of

A. Aphids

B. Mosquitoes

C. Butterflies

D. Cochineal insect caterpillars

**Answer: B**



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24. Which of the following shows symbiotic association with root nodules of Casuarina?

A. Frankia

B. Aulosira

C. Anabaena

D. Cyanobacteria

**Answer: A**



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25. Rotenone is obtained from

A. Leaves of *Nicotiana*

B. Roots of *Derris elliptica*

C. Leaves of *Chrysanthemum cinerarifolium*

D. Roots of *Rouwolfia serpentina*

**Answer: B**



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**26.** *Bacillus thuringiensis* is a biocontrol agent introduced to control

A. Rodents

B. Mosquitoes

C. Grasshoppers

D. Butterfly caterpillars

**Answer: D**



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27. Select the incorrect option w.r.t. blue green algae.

A. It adds organic matter to the soil

B. It increases soil fertility

C. It reduces alkalinity of soil

D. It is restricted to terrestrial environment  
only

**Answer: D**



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**28.** Pheromones are chemical messengers that help insect in (a) Communication (b) Sending alarm signals (c) Marking trails (d) Attracting males (e) Killing pests

A. All except (c) & (e)

B. All except (b) & (d)

C. All except (C)

D. All except (e)

**Answer: D**



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29. Vesicular arbuscular mycorrhizae are

- A. Endomycorrhizae
- B. Ectotrophic mycorrhiza
- C. Ectophytic mycorrhiza
- D. All except (2)

**Answer: A**



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30. Select the correct option w.r.t. biocontrol agent which is effective against several plant pathogens.

A. Aphid

B. Trichoderma

C. Chrysolina beetle

D. Caterpillar

**Answer: B**



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**31. Select odd one w.r.t. insecticide.**

A. Rotenone

B. Nicotine

C. Azadiractin

D. Devine

**Answer: D**



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32. In the treatment of sewage, primary treatment is used to remove

A. Pesticides

B. DDT and pathogen

C. Turbidity in waste water

D. Floating debris and grit

**Answer: D**



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**33.** Study of cancer is called

A. Serology

B. Oncology

C. Histology

D. Carcinology

**Answer: B**



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**34.** Property shown by a normal cell when compared to a cancerous cells is

- A. Neoplasma formation
- B. High telomerase activity
- C. Uncontrolled cell division
- D. Contact inhibition

**Answer: D**



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**35.** Carcinomas are

- A. Malignant growth of cartilage
- B. Benign growth of adipose tissue
- C. Malignant growth of epithelial lining
- D. Malignant growth of bone marrow

**Answer: C**



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**36.** Cadmium oxide causes cancer of

A. Skin

B. Bone marrow

C. Liver

D. Prostate gland

**Answer: D**



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**37. Proto-oncogenes are**

- A. Normal genes which control cell growth and differentiation
- B. Mutated genes which cause cancer
- C. Viral genes which cause cancer
- D. Genes which cause metastasis under normal conditions

**Answer: A**



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**38.** The diagnosis of cancer can be performed by using techniques such as

A. Biopsy

B. MRI

C. Computed tomography

D. All of these

**Answer: D**



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39. Vinblastin and vincristin inhibit growth of cancer cells by

A. Inducing contact inhibition

B. Arresting cell division through inhibition of spindle formation

C. Suppression of oncogenes

D. Activating protooncogenes

**Answer: B**



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40.  $I^{131}$  is used for the treatment of

- A. Skin cancer
- B. Lung cancer
- C. Thyroid cancer
- D. Bone tumors

**Answer: C**



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**41.** Which amongst the following are the commonly abused depressant drugs?

A. Coca alkaloids

B. Opioids

C. Cannabinoids

D. All of these

**Answer: B**



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42. Specific opioid receptors are present in

A. ANS only

B. Gastrointestinal tract only

C. CNS and gastrointestinal tract

D. Damaged or injured organs

**Answer: C**



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**43.** How many statements about cannabinoids is/are correct from the given statements? (i) Natural cannabinoids are obtained from the inflorescence of *Erythroxylum coca*, br (ii) Marijuana, Hashish, Charas and Ganja are obtained from flower tops, leaves and the resin of *Papaver somniferum*, br (iii) Cannabinoids are generally taken by inhalation and oral ingestion, br (iv) Cannabinoids have no effect on cardiovascular system of body

A. One

B. Two

C. Three

D. Four

**Answer: A**



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**44.** Which of the following drug acts as a stimulant of CNS?

A. Heroin

B. Morphine

C. Cocaine

D. Marijuana

**Answer: C**



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**45. Select the mismatch.**

A. Smack - Depressant and slows down  
body functions

B. Hashish - Affects the cardiovascular  
system of the body

C. Atropa belladonna - Hallucinogenic  
properties

D. Cocaine - Lower doses produce  
hallucinations

**Answer: D**



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**46.** Which of the following drugs cannot be used as medicine to help patients cope up with illness like insomnia?

- A. Barbiturates
- B. Benzodiazepines
- C. Amphetamines
- D. Both (1) & (2)

**Answer: C**



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47. Find the odd one out w.r.t effects of drugs

A. Smack

B. Heroin

C. Crack

D. Morphine

**Answer: C**



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**48.** Select correct option among the given statements regarding true and false. (a) Nicotine reduces the concentration of haembound oxygen, br (b) Nicotine raises blood pressure and increases heart rate, br ( c ) Smoking is associated with increased incidence of cancers, br (d) Smoking causes oxygen deficiency only in the lungs.

A. (a)T, (b)T, ( c )T, (d)T

B. (a) T, (b) F, ( c ) T, (d) F

C. (a) F, (b) F, ( c ) T, (d) T

D. (a) T, (b) T, (c ) T, (d) F

**Answer: D**



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**49.** Which of the following is incorrect with regards to addiction and dependence on drugs and alcohol?

A. Addiction is psychological attachment to certain drugs and alcohol

B. With repeated use of drugs, the tolerance level of the receptors present in our body decreases.

C. Undue peer pressure to perform beyond his/her threshold can be a reason for addiction

D. Withdrawal syndrome is manifested when regular dose of drugs/alcohol is abruptly discontinued.

**Answer: B**



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50. Choose the incorrectly matched pair

A. Immediate adverse effects of drugs and-

Vandalism and violence alcohol abuse

B. Excessive doses of drugs - Coma and

Death

C. Combination of drugs like barbiturales

with alcohol - Hallucination

D. Chronic use of drugs and alcohol -

Damages nervous system and liver

**Answer: C**



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**51.** The side-effects of excessive use of anabolic steroids is/are

A. Enlargement of clitoris in females

B. Increased size of testicles in males

C. Breast enlargement in females

D. Reduced aggression in both male and female

**Answer: A**



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**52.** Sportspersons misuse narcotic analgesics anabolic steroids and certain hormones. What is the correct reason for it?



- A. These compounds increase muscle strength
- B. Promote aggressiveness
- C. Increase athletic performance
- D. All of these

**Answer: D**



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**53.** Cocaine has a potent stimulating action on the central nervous system and it produces

- A. Euphoria and increased energy levels
- B. Analgesic action
- C. Sedative action
- D. Sleep

**Answer: A**



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