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# QUESTION PAPER 2024

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**MOBILE TECHNOLOGY**

**(Science)**

**(For Students Registered in 2021 and 2022)**

**2024 (A)**

# MOBILE TECHNOLOGY

(SCIENCE)

*Full Marks* : 40

*Time* : 2 hours

*The figures in the right-hand margin indicate marks.*

*ପ୍ରତି ପ୍ରଶ୍ନର ଦକ୍ଷିଣ ପାର୍ଶ୍ୱରେ ଥିବା ସଂଖ୍ୟା ପ୍ରଶ୍ନର ମୂଲ୍ୟ ସୂଚାଉଛି ।*

*Answer from* ***all*** *the Groups as per the directions.*

*ନିର୍ଦ୍ଦେଶାନୁସାରେ* ***ସମସ୍ତ*** *ବିଭାଗର ପ୍ରଶ୍ନ ଗୁଡ଼ିକର ଉତ୍ତର ଦିଅ ।*

( *Turn Over* )

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## GROUP–A
## କ–ବିଭାଗ

1. Answer *all* questions : $1 \times 5 = 5$
ସମସ୍ତ ପ୍ରଶ୍ନର ଉତ୍ତର ଦିଅ :

(*a*) What is the principle of Optical Fiber Communication ?
Optical Fiber ଯୋଗାଯୋଗ ର ସିଦ୍ଧାନ୍ତ କ'ଣ ?

(*b*) Telephone companies normally provide a voltage of _____ DC to power telephones. (Fill in the blanks)
ସାଧାରଣତ, telephone companies ଗୁଡ଼ିକ _____ DC voltage ଯୋଗାଇଥାନ୍ତି power telephone ଗୁଡ଼ିକୁ । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର) ।

(*c*) Direct inward dialing is used as a feature in _____. (Fill in the blanks)
Direct inward dialing କୁ _____ ରେ ଏକ ବୈଶିଷ୍ଟ୍ୟ ଭାବେ ବ୍ୟବହାର କରାଯାଏ । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର) ।

(*d*) Software for switching system application is divided into _____ classes. (Fill in the blanks)
Switching system application ର software କୁ _____ ଭାଗରରେ ବିଭକ୍ତ କରାଯାଇଛି । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର) ।



( Continued )



(*e*) Bandwidth required for telephone channel is _____. (Fill in the blanks)
Telephone channel ର ଆବଶ୍ୟକ Bandwidth _____ ଅଟେ । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର) ।

2. Answer *all* questions : $1 \times 5 = 5$
ସମସ୍ତ ପ୍ରଶ୍ନର ଉତ୍ତର ଦିଅ :

(*a*) What is core in optical fiber ?
Optical fiber ର core ଅନ୍ତରୀକ୍ଷ କ'ଣ ?

(*b*) NA in optical fiber transmission is used to describe _____ capability. (Fill in the blanks)
Optical fiber ରେ NA _____ ଦର୍ଶାଇବା ପାଇଁ ବ୍ୟବହୃତ ହୁଏ । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର)

(*c*) The telephone is a _____ network. (Fill in the blanks)
Telephone ଗୋଟିଏ _____ network ଅଟେ । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର)

(*d*) Side tone is the speech heard by _____. (Fill in the blanks)
ପାର୍ଶ୍ୱ ସ୍ୱର ଗୋଟେ speech ଯାହା _____ ଦ୍ୱାରା ଶୁଣା ଯାଏ । (ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର)

(*e*) What is the Bandwidth of Optical Fiber ?
Optical Fiber ର Bandwidth କେତେ ?

( Turn Over )



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## GROUP–B
## 'ଖ' –ବିଭାଗ

**3. Answer the following questions :** $3 \times 6 = 18$
**ନିମ୍ନରେ ଦିଆଯାଇଥିବା ପ୍ରଶ୍ନଗୁଡ଼ିକର ଉତ୍ତର ଦିଅ :**

**(a) Explain the troubleshooting in audio section of a smartphone.**
**Smartphone ର audio section ରେ trouble-shooting କୁ ବର୍ଣ୍ଣନା କର ।**

**(b) Explain Numerical aperture and acceptance angle in optical fiber communication.**
**Optical fiber communication ରେ Numerical aperture ଓ acceptance angle ବର୍ଣ୍ଣନା କର ।**

**(c) Explain different tones used in telephone exchange.**
**Telephone exchange ରେ ବ୍ୟବହାର କରାଯାଉଥିବା ବିଭିନ୍ନ tones ଗୁଡ଼ିକ ଲେଖ ।**

**(d) What are the advantages of optical fiber ?**
**Optical fiber ର ସୁବିଧା ଗୁଡ଼ିକ କ'ଣ ?**

**(e) What are the different ports is a tablet ?**
**Tablets ର ବିଭିନ୍ନ ports ଗୁଡ଼ିକ କ'ଣ ଅଟେ ?**

**(f) Explain the working principle of a telephone transmitter.**
**Telephone transmitter ର କାର୍ଯ୍ୟନୀତି ବର୍ଣ୍ଣନା କର ।**



( Continued )



## GROUP–C
## 'ଗ' –ବିଭାଗ

**4. Answer any *two* questions from the following :** $6 \times 2 = 12$
**ନିମ୍ନଲିଖିତ ଯେ କୌଣସି *ଦୁଇଟି* ପ୍ରଶ୍ନର ଉତ୍ତର ଦିଅ :**

**(a) Write down the difference among landline telephone, cordless telephone and cell phone.**
**Landline telephone, cordless telephone ଏବଂ cell phone ମାନଙ୍କ ମଧ୍ୟରେ ପାର୍ଥକ୍ୟ ଦର୍ଶାଅ ।**

**(b) What do you mean by switching technique ? Explain telephone switching system and its types.**
**Switching technique କ'ଣ ? Telephone switching system ଓ ତାର ପ୍ରକାର ଗୁଡ଼ିକ ବର୍ଣ୍ଣନା କର ।**

**(c) Draw the block diagram of optical fiber system and explain working of each block.**
**Optical fiber system ର block diagram ଅଙ୍କନ କର ଏବଂ ତାର ପ୍ରତିଟି block ର କାର୍ଯ୍ୟକୁ ବର୍ଣ୍ଣନା କର ।**

**(d) What is EPABX ? Explain its types and advantages.**
**EPABX କଣ ? ତାର ପ୍ରକାର ଏବଂ ଉପକାରିତା ଗୁଡ଼ିକ ବର୍ଣ୍ଣନା କର ।**



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